

Natural gas forecasts for the Envestra South Australian distribution region to 2019-20

**A report for
Envestra**

**Prepared by the
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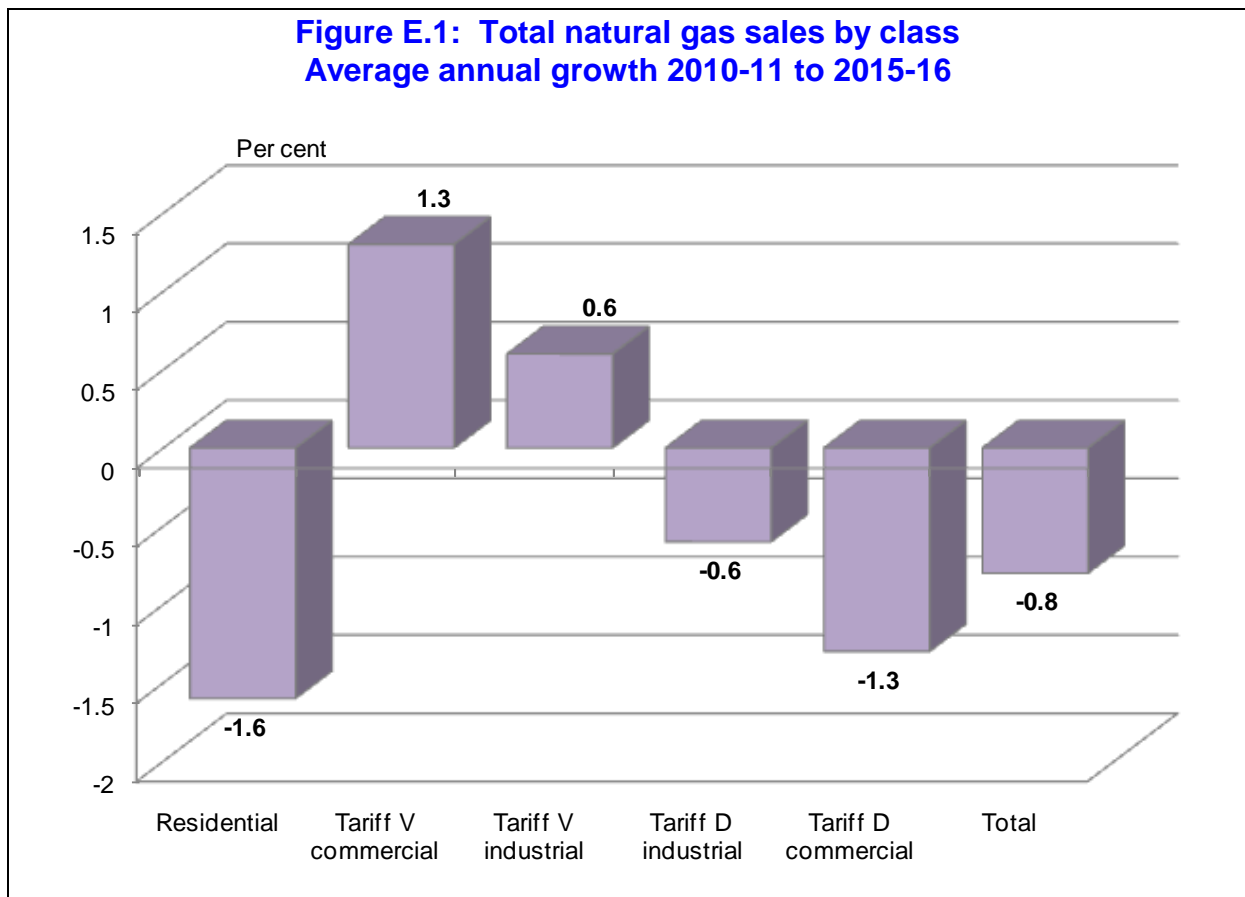
Executive summary

Envestra commissioned the National Institute of Economic and Industry Research to prepare forecasts of natural gas sales and customer numbers for the South Australian regulated natural gas distribution network.

The key findings of the forecasts are briefly summarised below. Importantly, a discussion is also provided on average residential gas usage.

E.1 Summary of forecasts

Figure E.1 shows the average volume growth by class from 2010-11 to 2015-16. Average annual growth in total sales between 2010-11 and 2015-16 is -0.8 per cent per annum.



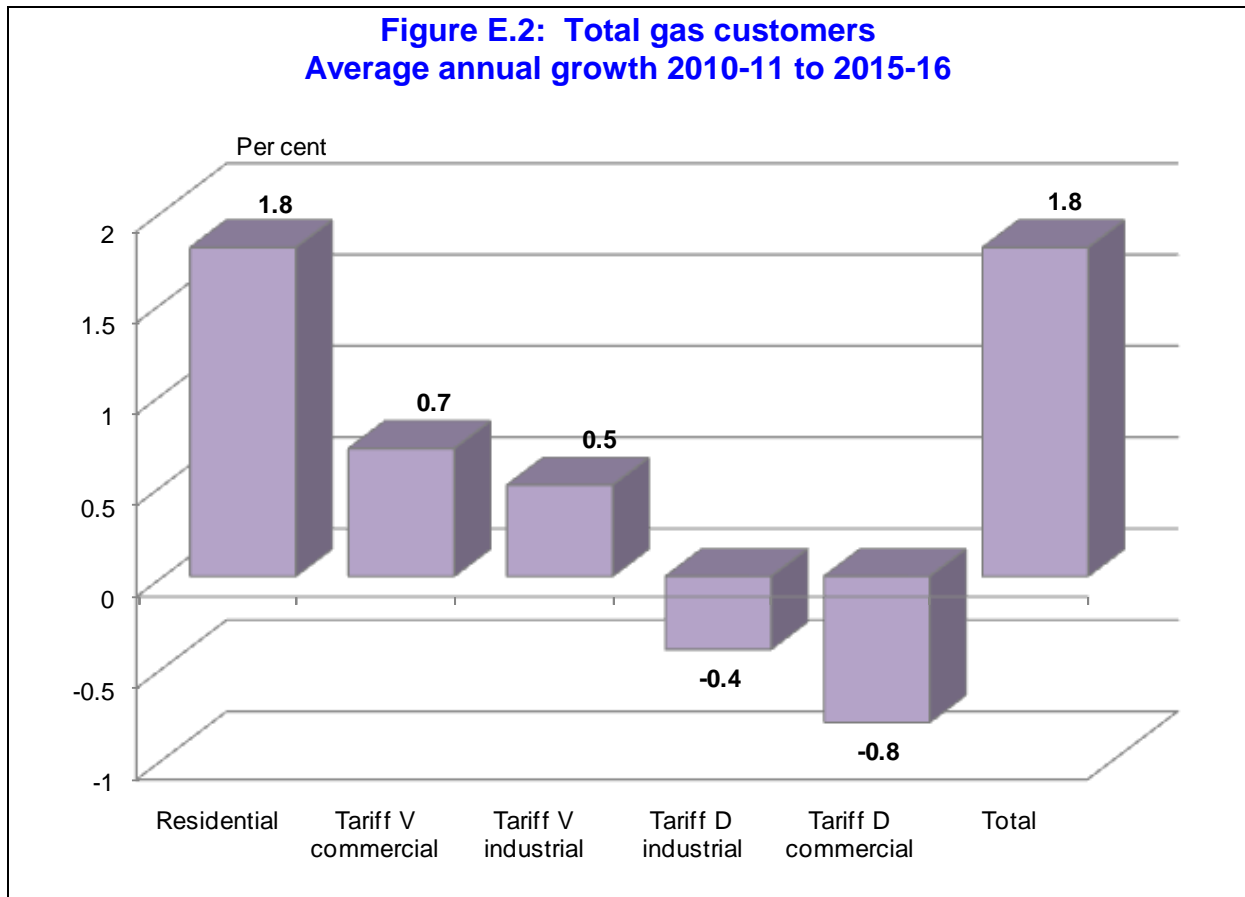
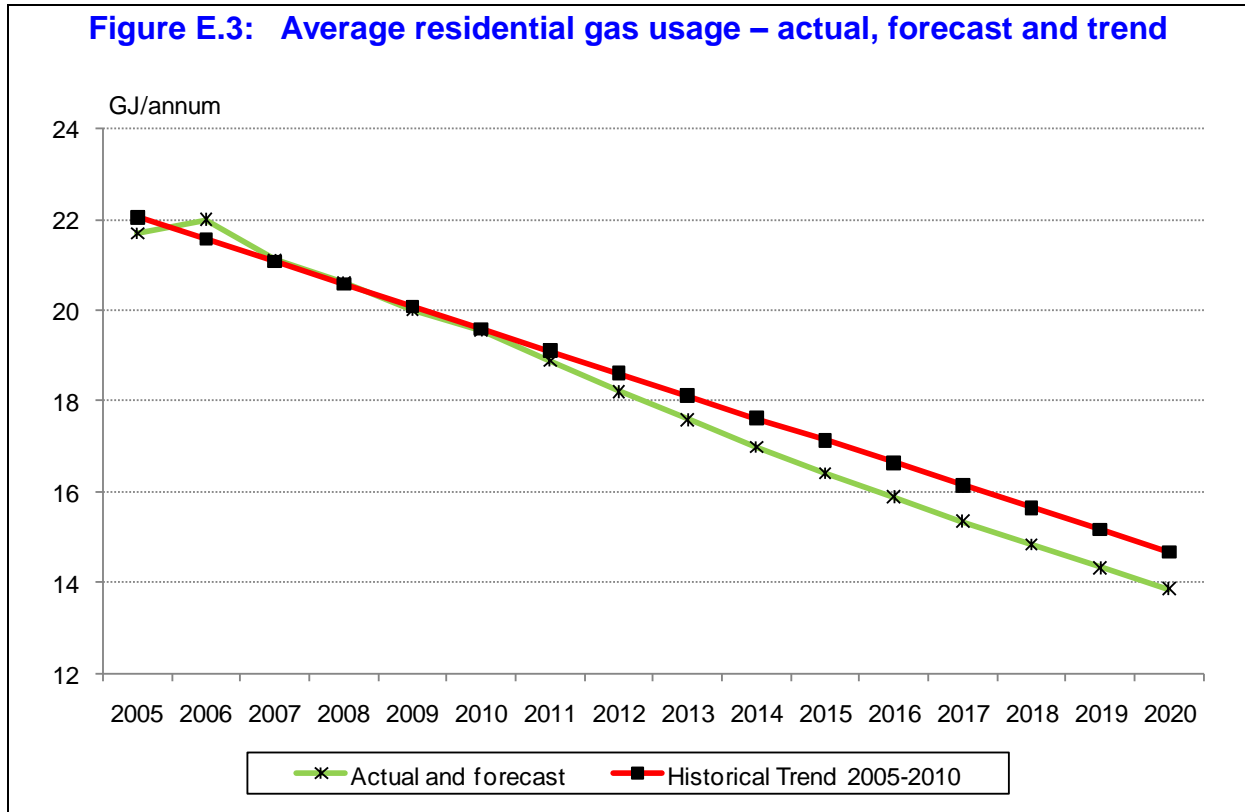


Figure E.2 shows the projected growth in customer number to 2015-16 by market sector for the regulated distribution network in South Australia.

Figure E.3 shows actual and forecast residential average consumption from 2004-05 to 2019-20. It also shows the extrapolated trend in average residential usage based on the 2004-05 to 2009-10 weather normalised usage (red line).

Actual usage fell from 22 GJ per residential connection in 2004-05 to 20 GJ per connection by 2008-09. The projection to 2019-20 implies average usage will fall at a slightly higher rate over the next 10 years, falling to around 14 GJ per residential connection by 2019-20 (green line in Figure E.3). This reflects directly the currently observed trend and the expected continued shift towards solar hot water in both the new and replacement markets in South Australia.

Figure E.3: Average residential gas usage – actual, forecast and trend

1. Introduction and background

Envestra commissioned the National Institute of Economic and Industry Research (NIEIR) to prepare forecasts of natural gas demand for the South Australian regulated network in October 2009. These forecasts were prepared in September 2010.

We understand the NIEIR forecasts were to be used by Envestra to verify their own work, submitted to the Australian Energy Regulator (AER) as part of its Access Arrangement for the period 2010-11 to 2015-16.

Envestra requested the National Institute of Economic and Industry Research to prepare forecasts for the gas transmission system in South Australia, covering Envestra's customers on this network.

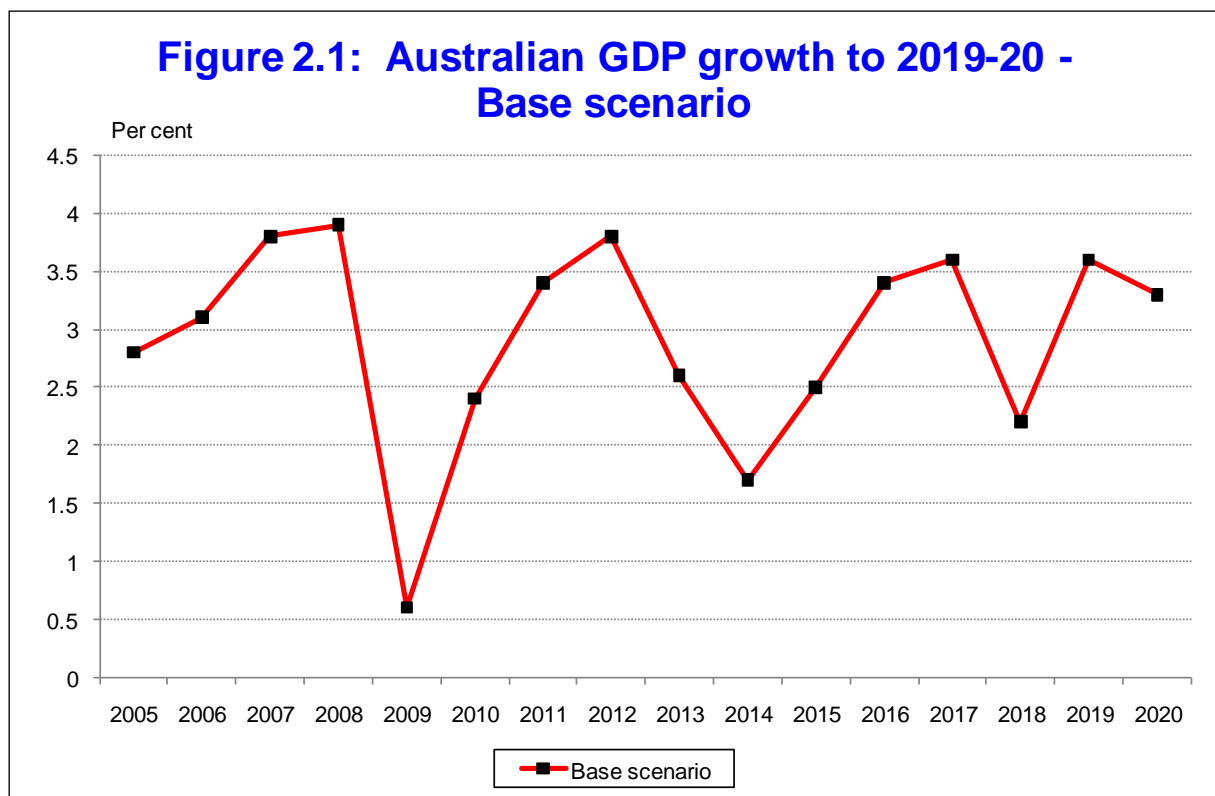
The scope of the project as outlined by Envestra is as follows:

- A description of factors affecting the demand for natural gas in South Australia for the following customer classes:
 1. domestic/residential customers (Tariff V);
 2. commercial customers using less than 10 TJ per annum (Tariff V); and
 3. industrial customers using greater than 10 TJ per annum (Tariff D).
- A description of the methodology used to forecast gas consumption for each market segment, and key assumptions used to prepare forecasts, including the source of base data used, and an overview of forecasting models used. Particular consideration also needs to be given to the impact of substitute energy sources, government policy initiatives (e.g. rebate on solar water heaters) and global warming on gas consumption.
- An assessment of the expected industrial closures, manufacturing activity, investment levels and residential property prices in South Australia and the impact it will have on demand for natural gas over the forecast period.
- Estimates of gas consumption for the financial years 2009-10 to 2019-20 for:
 1. domestic customers for Adelaide, Whyalla, Pt Pirie, Peterborough, Riverland and South East regions;
 2. customers using less than 10 TJ per annum (Tariff V) for Adelaide, Whyalla, Pt Pirie, Peterborough, Riverland and South East regions (see Attachment 1); and
 3. MDQ and annual volume forecasts for customers using greater than 10 TJ per annum (Tariff D) for each region identified in (1) above and for each zone as set out in Attachment 2 (Northern, Central, Southern).
- Relevant commentary on the forecasts to interpret trends and to demonstrate consistency with expected movements in key economic variables.
- To provide a review of the current weather standard used by Envestra and to develop alternative measures of the standard, incorporating other climate variables such as wind and sunshine.

2. The economic outlook for Australia to 2019-20

2.1 Introduction

This section provides an outline of the economic outlook for Australia to 2019-20 for the base growth scenario. Figure 2.1 shows the outlook for Australian gross domestic product to 2019-20. Table 2.1 shows the projected annual Australian GDP growth rates to 2019-20 for the base scenario. Part 2.2 of this section provides a more detailed outlook for the Australian economy to 2014-15 for the base scenario.



Note: Financial years ending June.

Table 2.1 Australian GDP growth 2004-05 to 2019-20 – base growth scenario

	Base
Per cent change	
2005	2.8
2006	3.1
2007	3.8
2008	3.9
2009	0.6
2010	2.4
2011	3.4
2012	3.8
2013	2.6
2014	1.7
2015	2.5
2016	3.4
2017	3.6
2018	2.2
2019	3.5
2020	3.3
Compound growth rate (per cent)	
2010-2015	2.8
2010-2020	3.0

Note: All growth rates refer to financial years ending June.

2.2 An overview of the medium-term outlook for the world and Australian economies

2.2.1 Introduction

This section summarises the medium-term outlook for the world and Australian economies. The Australian economic outlook includes an assessment of the strategic factors that will influence Australian growth outcomes.

2.2.2 The outlook for the world economy

Total world GDP is estimated to have fallen by 1.5 per cent in 2009 and to increase by 2.6 per cent in 2010. Asia is projected to be back to near normal GDP growth rates (in excess of 5 per cent) by 2010. However, the developed world is projected to grow by less than 2 per cent (below normal growth rates).

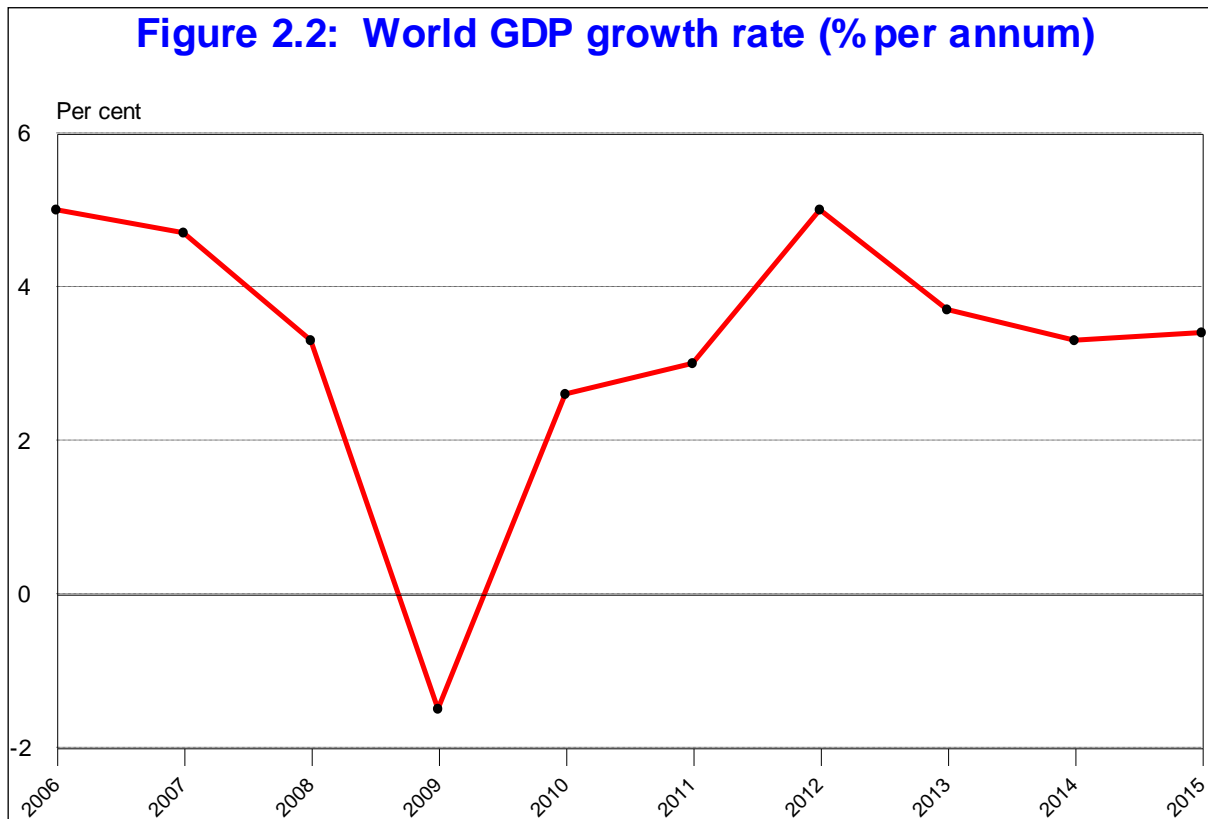
World economic growth over the 2008 to 2018 period (3.0 per cent per annum) is projected to be less than the world growth over the 1996-2008 period (3.6 per cent per annum). Nonetheless, post 2012, the average annual world growth rate returns to close to the 1996-2008 average.

The high income economies have suffered a severe financial shock and IMF estimates show that on average it takes 6 to 8 years for economies subject to severe financial shocks to recover to output levels that otherwise could have prevailed. The major reasons for this are:

- (i) the severity of the shock and the increase in excess capacity which dampens growth;
- (ii) the damage to confidence which takes a number of years to overcome; and
- (iii) the damage to bank and other financial institutions' balance sheets and the associated diversion of funds to restore the quality of financial sector balance sheets. This in effect imposes a long-term credit squeeze on the economy with 'less-than-blue-chip' borrowers' credit rationed.

In the past countries subject to severe financial shock did recover to previous output levels. This will not happen this time for two reasons. Firstly, what happened over 2009 and 2010 is that the financial crisis affected a range of countries simultaneously and in particular high income countries; individual countries subject to financial shock in the past could rely on a strong world economy to assist their recovery.

The second reason is the long term loss of competition of high income countries to the large emerging developing countries has been accelerated by the global financial crisis and will continue post 2012. The possibility of a carbon price regime would accelerate this trend.



2.2.3 Australian economic outlook – strategic factors

Strategic factors are those obstacles, barriers or, on the positive side, drivers which will play important roles in determining how Australia will perform economically over the next decade. Perhaps the most important strategic factor has already been discussed, namely the outlook for the world economy. The focus here is on the domestic strategic factors.

The most important domestic strategic factors which flow on from the GFC are:

1. household debt deleveraging;
2. balance of payments constraint and high interest rates; and
3. the disintegration of the Australian economy.

Household debt and savings

Australian household savings is likely to be significantly lower than estimated.

One of the mysteries of the last decade is that while Australia produced similar saving ratio outcomes as the other Anglo-sphere economies¹, the rate of growth of household debt compared to income has been faster in Australia than what appears to be the case in the other Anglo-sphere economies, such as the United States.

One possible reason is the relatively higher dwelling prices in Australia relative to income. Another is that the household savings ratio is being over-estimated in Australia.

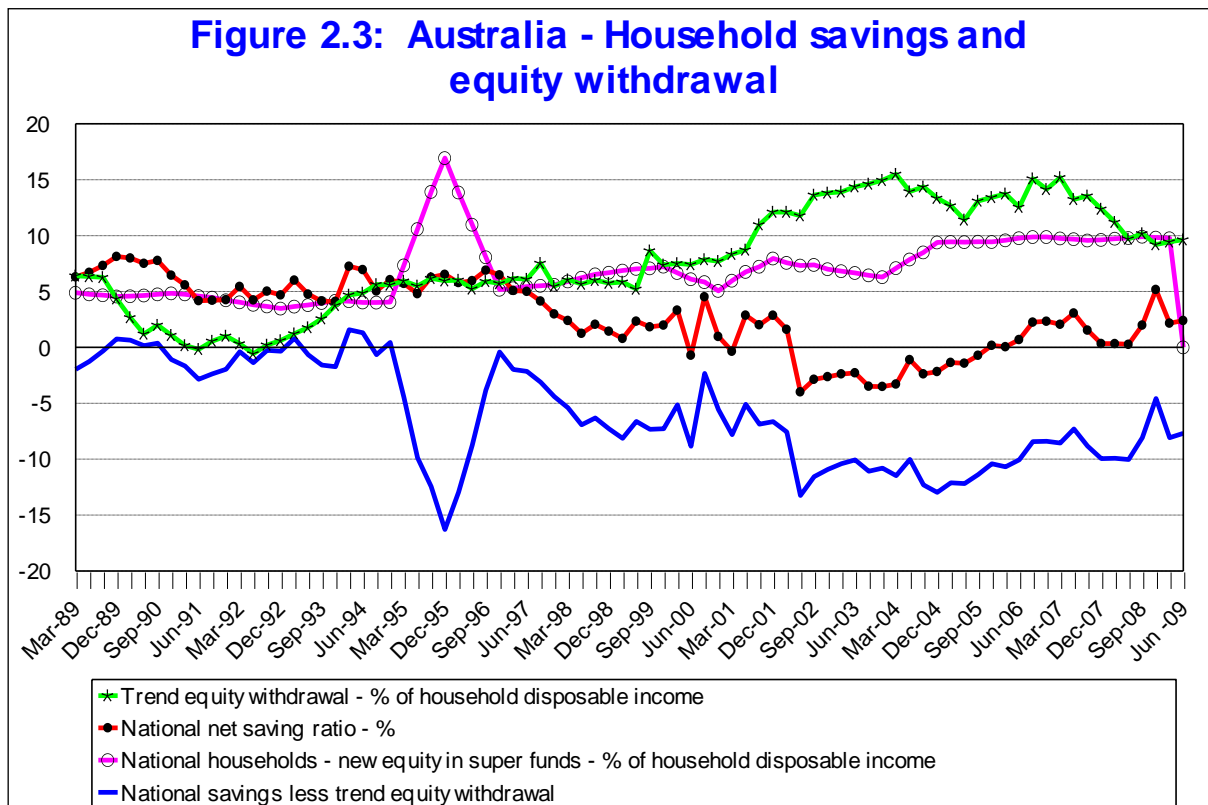
¹ That is, plus or minus around an average of near zero.

The United Nations' System of National Accounts recommends that superannuation contributions and interest receipts be either excluded from the household accounts or, if included, then explicitly entered on the income and outlay side of the accounts so that net savings excludes superannuation savings.

In Australia the premiums paid and imputed interest revenue from superannuation is included in the household income, but is not explicitly entered as a household outlay, which means that the household balancing items, net savings, is somewhat overstated.

Figure 2.3 shows selected household savings measures for the Australian economy to June quarter 2009. Also shown in the figure is (trend) equity withdrawal for Australian households as a per cent of household income. Australian ABS annual net household savings is now back to historically low levels, continuing its tendency over the last decade to average around zero. Equity withdrawal is the change in total household debt less activities of:

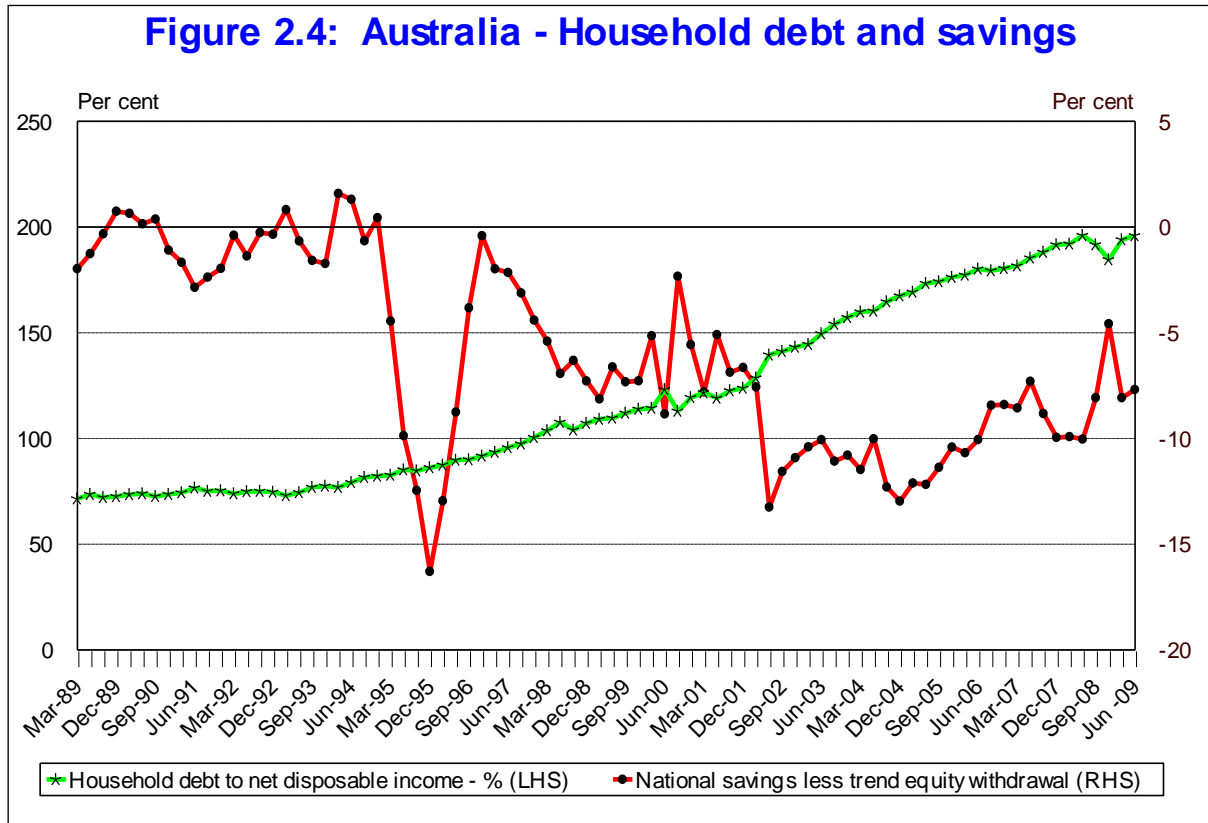
- (i) borrowings for new dwelling construction; and
- (ii) borrowings for unincorporated investment.



A large part of equity withdrawal seems to have been used to finance consumption. Moreover, equity withdrawal matches fairly closely the estimated change in households' equity in superannuation funds. As the national net savings ratio line indicates, net Australian savings ratio (adjusted for superannuation) has been significantly negative from 1997 to 2008. As Figure 2.4 indicates, this is connected with the acceleration in Australian household debt to income ratio between 1997 and 2008. During this period Australian household debt to income has increased from 80 to 190 per cent of net disposable income.

This cannot continue in the same manner going forward, both because of approaching debt saturation and constraints on the availability of finance arising from the global financial crisis.

In practical terms what this means is that Australia may well recover strongly over the next three years. This will continue to drive up the debt to income ratio. However, debt saturation and borrowing costs will act as powerful deflationary influences on the economy post 2012.

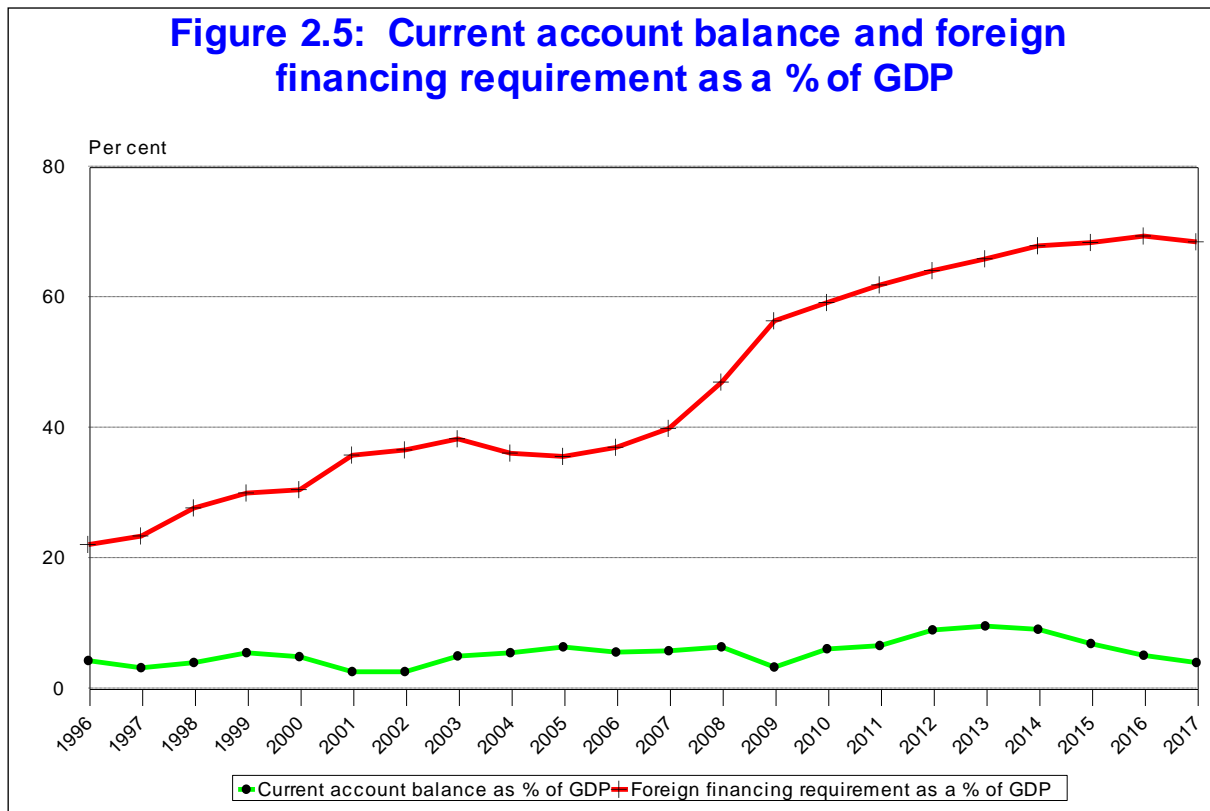


The balance of payments constraint to growth and high interest rates

Given the high current account deficits over the last 30 years, Australia now has an annual international debt roll-over requirement equal to over 50 per cent of GDP (Figure 2.5). With the recovery this debt roll-over burden is projected to increase towards 70 per cent of GDP. Mining expansion, and in particular LNG expansion, will not greatly assist in preventing this rise. This is because of:

- (i) low local content in construction of new mines;
- (ii) high foreign borrowings to finance construction; and
- (iii) high profitability and high foreign content which means that most of the profits are a negative for the current account deficit.

Australia's financing ratio is now well above those of South Korea and Argentina before their exchange rate-lending crisis of 1997 and 2001 respectively, and with 60 per cent of foreign debt held by the banking system, Australia will have to run a high interest rate regime when the world recovers (Figure 2.5).



The disintegration of the Australian economy

As a result of the rapid Asian growth over the next decade, resource development is likely to be a key driver of Australian economic growth. The resource States will grow significantly faster than the national average and, unfortunately, the faster the growth in the resource States the relatively slower will be the rate of growth in the non-resource States. This is because of:

- (i) the weakening interstate trade flow impacts of resource developments on Australian States as imports of goods and services displace domestic production; and
- (ii) the non-resource States' rising debt levels become more adversely affected by any increase in interest rates and inflationary impacts of resources expansion on the domestic economy.

2.2.4 The national Base case scenario: Indicator outcomes

The Base case GDP profile is one of:

- (i) reducing growth to 2010-11;
- (ii) followed by high growth in 2011-12;
- (iii) which leads to unacceptable inflation outcomes and a rapid increase in the current account deficit;
- (iv) which in turn provokes a return to higher interest rates and cuts in government expenditures;
- (v) which returns the Australian economy to the low growth rates of the 2009-2011 period.

After 2015 the economic growth rate is constrained by inflationary and balance of payments pressures, despite the fast growing resource States.

The exchange rate and the current account deficit

The IMF in a report on the AUS\$, concluded that the approximate “equilibrium” exchange rate is around 75 to 80 cents, or a weighted average of 60. This is the exchange rate which is required to maintain the current account deficit at its sustainable level of around 4.5 per cent of GDP.

The projections indicate that equilibrium conditions are not maintained for the next few years. The current account deficit increases with the recovery, reaching 9 per cent of GDP by the end of 2012. This, along with inflation, triggers a policy response which results in a decline in economic growth post the middle of 2012.

Why does the current account deficit deteriorate so quickly? The reasons are:

- (i) a strong investment recovery;
- (ii) low domestic content of the equipment component of the investment; and
- (iii) high foreign ownership and gross operating surplus of the fast expanding mining sector.

Indeed, a rule of thumb established by NIEIR models over the years is that over the long term resource expansion probably has a neutral impact on the current account deficit. Over the construction phase the current account deficit deteriorates. Over the production phase the:

- (i) interest payments on foreign debt;
- (ii) the remitted profits; and
- (iii) the undistributed profits which are fully credited to the current account deficit,

mean that any positive impact on the current account balance during the production phase is relatively small and struggles to offset the accumulated negative impact from the construction phase.

However, the fact a significant part of the current account deficit is undistributed profits that are used in Australia to fund new investment means that the current account deficit are not quite as encouraging as the case where all debt is financed. And this is why high current account deficits in the Australian context are not as worrying as elsewhere. However, as the IMF points out, this is at 4.5 per cent of GDP, not 8 to 9 per cent.

Despite the return of high current account deficits, Australia’s exchange rate will remain strong over the next few years supported by the positive sentiment associated with the next round of resource expansion.

However, with the recovery in the world economy, world credit markets will increasingly become squeezed and Australia will have more difficulty in securing finance from global wholesale markets. This will force domestic banks to rely on domestic funding sources and especially the RBA. This will cut the level of new capital inflow and put downward pressure on the exchange rate, which is why the exchange rate weakens in 2012-13. If Australia does reduce GDP growth sharply over this period, as per the projection, then the exchange rate could well fall to 60 cents or below, which in turn would force policy contraction. That is,

during the 2012-13 period there may be a time when the exchange rate does fall temporarily to very low levels.

Through all this, and especially to 2013, there is a steady weakening of the US\$. By 2014 the Chinese currency rises against the US\$. This means that the weighted average exchange rate returns to its "equilibrium" level by the end of 2011, despite the high US\$.

After 2013 the weighted average Australian exchange rate is held below its equilibrium level once it becomes obvious that the next round of resource expansion is not going to make a substantial contribution to solving Australia's chronic current account deficit. This has a long term deflationary impact on the economy, which helps to maintain growth at sustainable levels.

Interest rates

The interest rate profile is derived by a Taylor Rule equation which has worked well in explaining interest rates over the last decade.

The components in the Taylor Rule equation are:

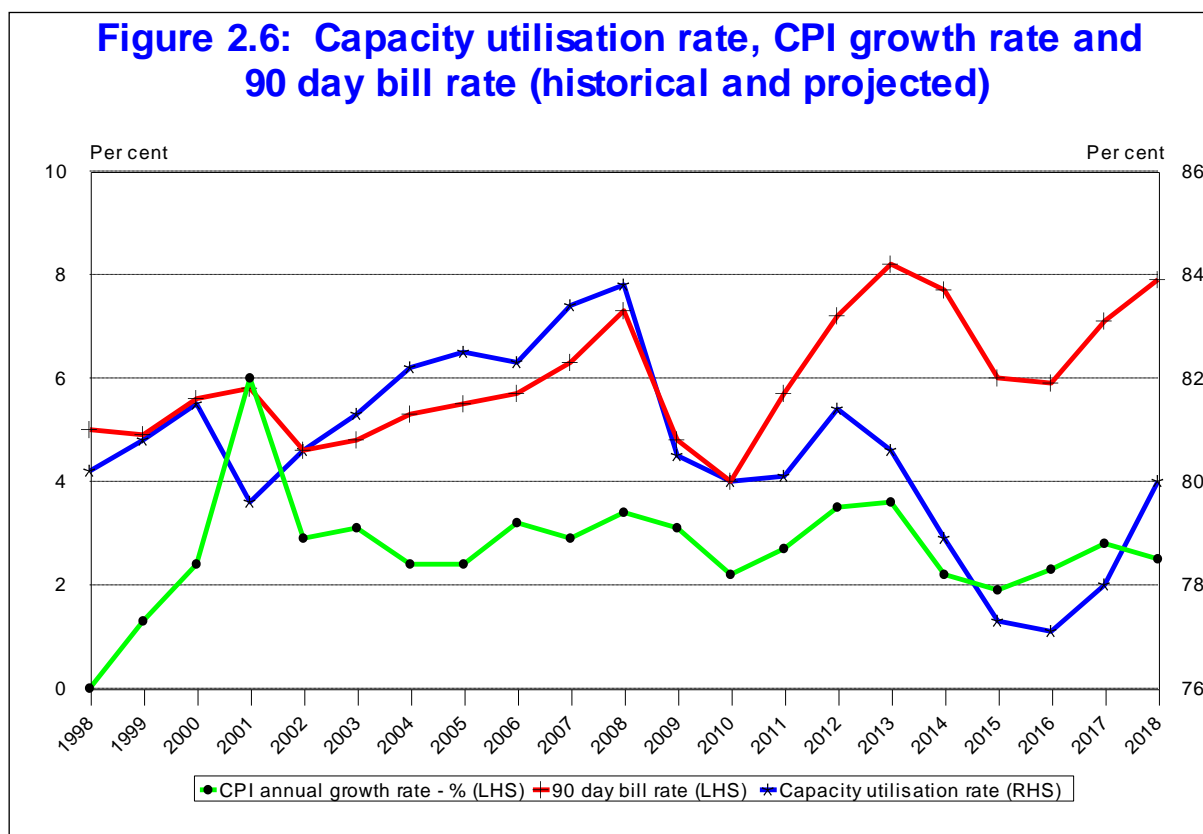
- (i) the inflation rate;
- (ii) 0.5 times the gap between the inflation rate and 2 per cent;
- (iii) 0.5 times the gap between the capacity utilisation rate and nominal or non-inflationary capacity utilisation rates;
- (iv) 0.1 times the gap between the current account deficit as a % of GDP and -4.5 per cent where the latter is the sustainable level.

The increase in the inflation rate by 2012, given this rule, explains the majority of the increase in interest rates.

However, significant contributions are expected to be made by the built up in capacity utilisation rates and the current account deficit. By the end of 2012 the excess capacity utilisation rate (above normal) is approaching 4 percentage points; the same as the early 2008 period when inflationary pressures were strong. This, plus the return of high current account deficits, could drive the short-term rate up to 9 per cent.

Pressure eases with the increase in household savings (forced by the high level of interest rates) which takes pressure out of the economy. However, the economy stays on an inflationary knife edge for the remainder of the projection period with the result that interest rates stay within the range of 6.0 to 8.5 per cent to 2018.

In part this is because capacity utilisation rates stay high. The check to growth in 2013 means that the economy does not build up enough momentum to make more capacity sufficient to remove inflationary bottlenecks from the economy. The vicious cycle is caused by the fact that the economy cannot build up the momentum because of the lack of capacity, in part due to the 2008 to 2011 slow growth period.



Inflation

With the recovery will come a return of inflation. In part this will be due to the recovery in world commodity prices in general, and oil prices in particular. The current modelling of the Australian exchange rate reflects this expectation. When the prices do rise, it will therefore fall in domestic inflation.

The same mechanism works for other inflationary drivers. That is, the low inflation during a period of low economic growth suppresses inflation because:

- (i) employees are fearful of losing their jobs with nominal wages growth falling to low levels;
- (ii) governments hold back on increasing fees and charges in line with underlying inflation because imposts on real incomes is not politically acceptable; and
- (iii) firms suppress margins to hold market share in line with the lowest price competitors.

With general recovery this constricts revenue and “catch-up” occurs. That is, employees, governments and firms attempt to replace some, but not all, of the revenue lost during the period of low economic growth.

Thus, over 2011 the CPI rate of growth accelerates, reaching the upper acceptable range by the end of 2011. During 2012 the inflation rate threatens to exceed 4 per cent which forces contractionary policies inducing high interest rates. This forces back down the rate of GDP growth and moderation in wages growth. The increased excess capacity in the economy brings the rate of inflation back to the 2 per cent mark by the middle of 2014.

From 2014 the economy is run with a level of excess capacity 1 to 2 per cent above the long run average. This maintains the rate of inflation in check.

Gross domestic product

The most important contribution to the slowdown in fiscal year 2009 growth was the decline in stocks, which took 1.3 percentage points off the GDP growth rate. The other major contribution to the growth slowdown was private consumption expenditure, where the contribution to growth fell from 2.2 percentage points in 2007-08 to 0.8 percentage points in 2008-09.

The recovery in GDP growth in 2009-10 will be led by:

- (i) the rebuilding of stocks; and
- (ii) a recovery in the contribution of private consumption expenditure.

It will be held back by the recovery in imports.

The fiscal year 2010-11 will be similar to 2009-10, with the exception that the combined contribution to growth from private dwelling investment and private investment will offset the fact that stocks will be a negative contribution to growth.

In 2011-12 Australian GDP growth will accelerate significantly. This will be driven by:

- (i) household consumption expenditure contribution returning to its historical levels as a growth driver;
- (ii) private investment contributing 1.2 percentage points to growth;
- (iii) stock making a positive contribution to growth and exports making its highest contribution to growth since the 2000-01 Olympics year; and
- (iv) public demand making a near 1 percentage point contribution to growth, reflecting the tail end of the stimulus.

In 2012-13 GDP growth declines significantly. A leading driver is the reduction in public demand as governments rein in expenditures to bring public sector deficits back under control. This alone takes 1 percentage point off GDP growth. Also, the turndown in the dwelling cycle under higher interest rates over the 2012-13 period results in dwellings making a negative contribution to growth.

In 2013-14 the high interest rates and inflation pressures of the previous fiscal year results in the private consumption expenditure contribution to GDP growth falling back to the 2008-09 levels as the household savings ratio increases to stabilise household debt.

The 2014-15 fiscal year is similar to the 2013-14 fiscal year, with the exception that private investment turns down, aggravating the period of slow growth.

The growth profile of a constrained economy labouring under the impact of high household and international debt and high public sector borrowing requirements continues post 2014-15.

**Table 2.2 Major Australian economic aggregates: fiscal year averages
(annual per cent rate of change)**

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
International										
World GDP (fiscal year)	5.0	4.7	3.3	-1.5	2.6	3.0	5.0	3.7	3.3	3.4
Demand										
Private consumption	2.8	4.2	4.1	1.9	2.6	2.9	3.3	3.2	2.0	1.8
Business investment	15.2	7.2	13.5	3.1	0.2	4.7	6.8	8.3	-1.4	8.0
Housing	-3.9	2.1	1.3	-2.0	3.7	6.4	10.6	-1.9	-5.7	0.5
Public expenditure	3.8	4.3	4.9	4.3	6.1	6.4	-0.4	-0.6	0.6	2.9
Total expenditure	4.3	4.5	5.6	2.7	3.7	4.7	3.0	3.3	0.2	3.4
GDP	3.1	3.8	3.9	0.6	2.4	3.4	3.8	2.6	1.7	2.5
External sector										
Current account deficit (\$B)	-54.3	-59.4	-73.2	-38.0	-68.6	-79.8	-80.8	-113.2	-104.7	-108.5
CAD as per cent of nominal GDP	5.4	5.4	6.2	3.0	5.2	5.5	5.2	6.8	6.1	6.1
Labour market										
Employment	2.9	2.9	2.6	1.1	1.0	1.9	2.0	1.1	0.4	1.1
Unemployment rate (%)	5.0	4.5	4.2	4.9	5.6	5.5	5.4	6.1	7.0	7.5
Participation rate(%)	64.6	65.0	65.4	65.4	65.2	65.2	65.3	65.4	65.5	65.4
Finance										
90 day bank bill (%)	5.7	6.3	7.3	4.8	4.1	5.7	7.2	8.2	7.7	6.0
10 year bond rate (%)	5.4	5.8	6.2	5.0	5.7	6.2	7.2	8.4	7.4	5.9
\$US/\$A	74.9	78.6	89.7	74.6	89.5	90.7	87.3	79.5	80.9	84.8
Trade weighted index	63.3	64.8	69.7	60.2	69.7	68.2	62.8	55.4	54.9	56.4
Wages and prices										
Wage cost Index	4.1	3.3	5.0	5.1	5.2	4.3	4.2	4.4	2.8	2.6
CPI	3.2	2.9	3.4	3.1	2.2	2.7	3.6	3.6	2.2	1.8

Figures 2.7 to 2.13 show graphically selected indicators for the base scenarios for the Australian economy over the medium term.

Figure 2.7: Consumer spending and GDP

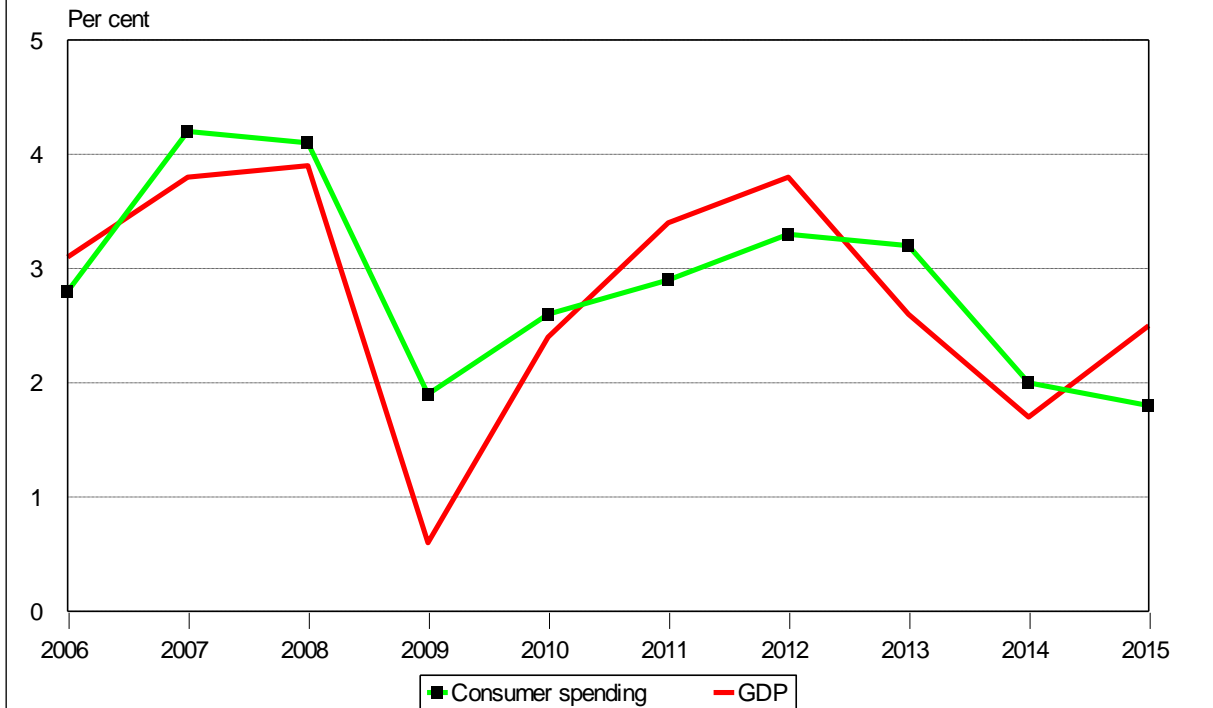


Figure 2.8: GDP and employment



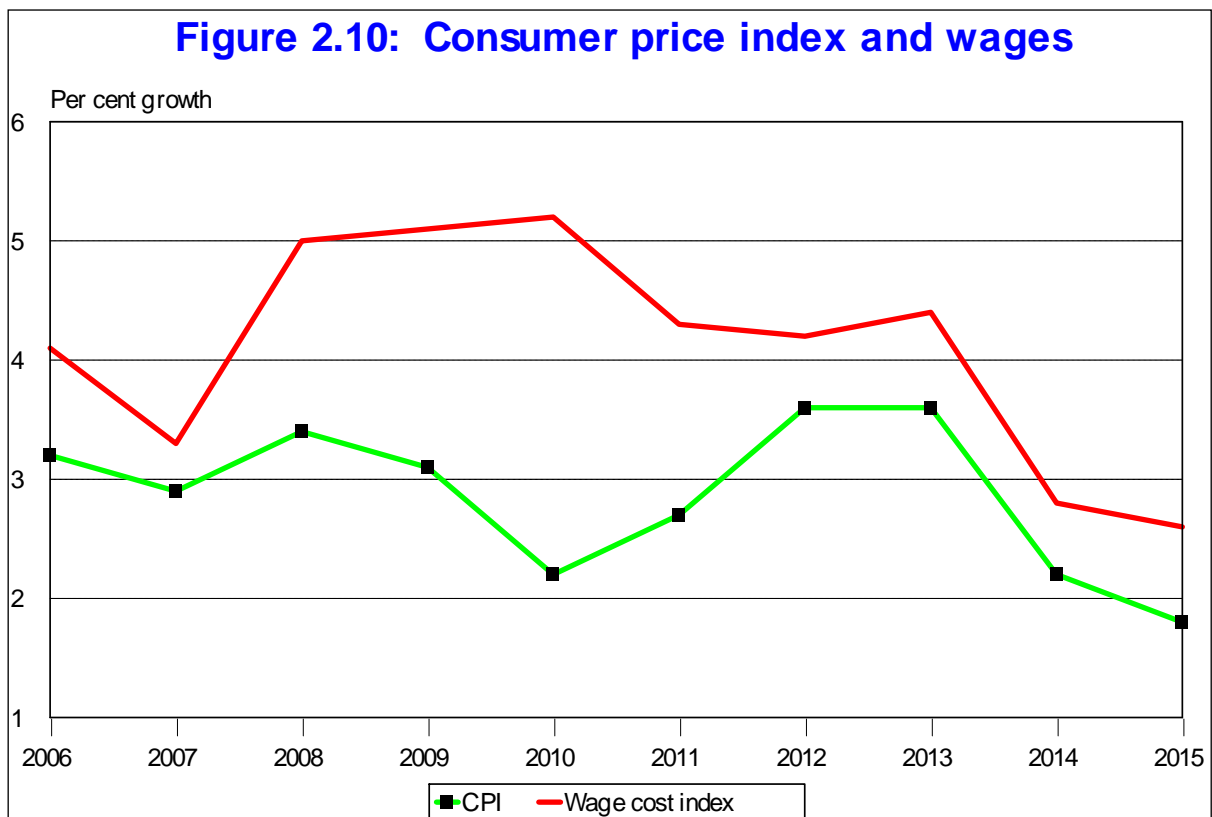
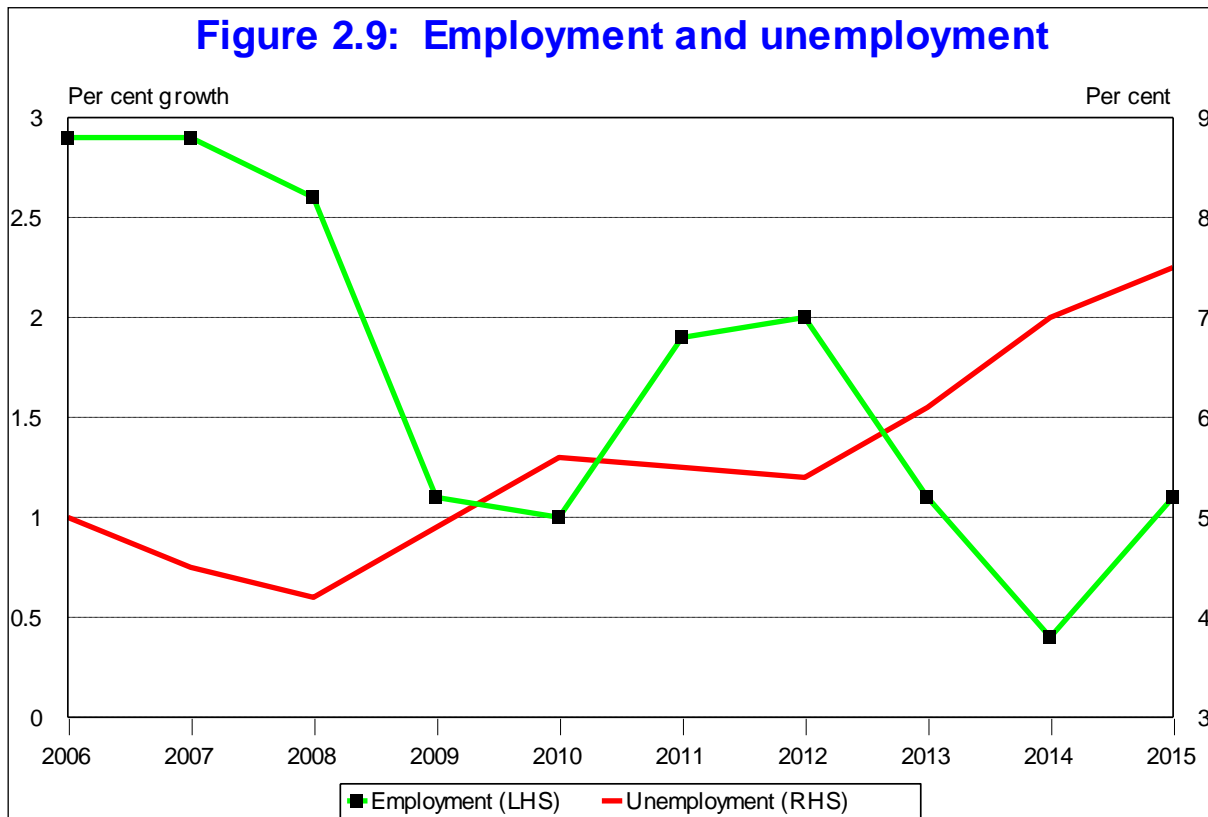
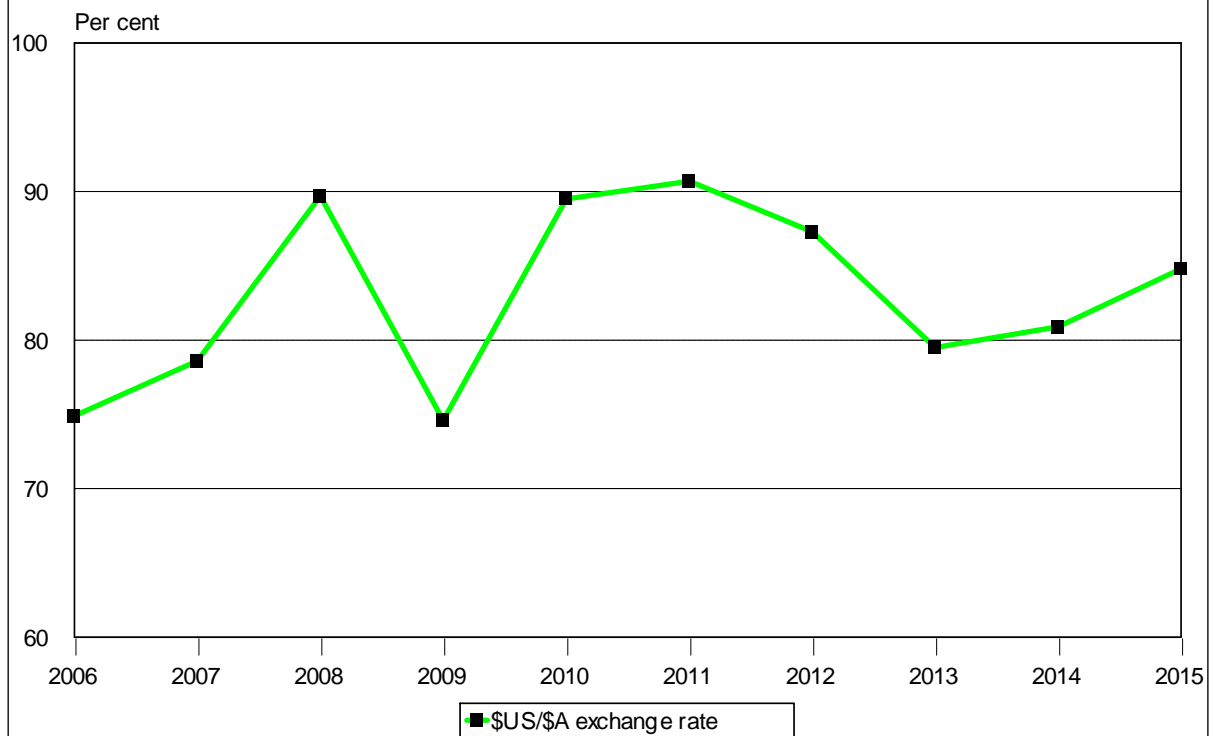
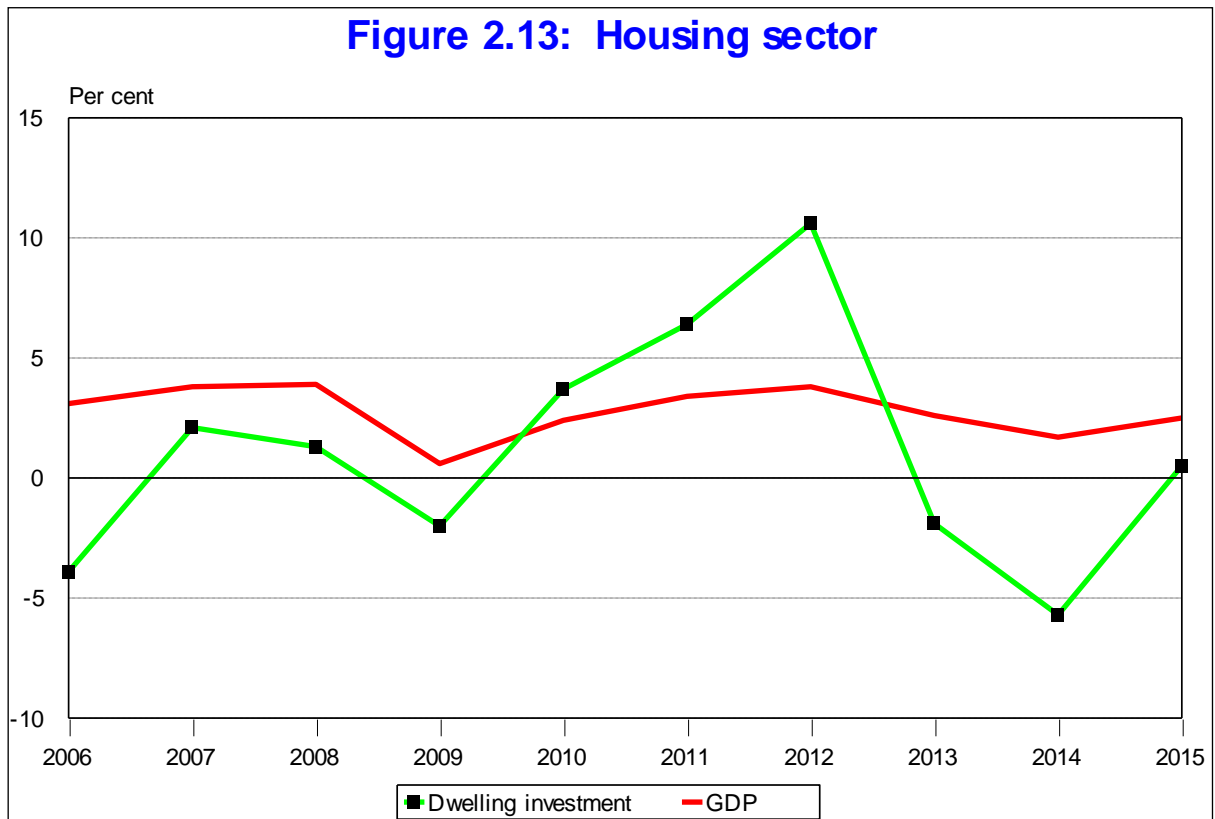


Figure 2.11: Domestic interest rates



Figure 2.12: Exchange rate





3. The outlook for South Australia to 2019-20

3.1 Introduction

This section outlines the economic outlook for South Australia to 2019-20 focusing on the medium-term or base scenario to 2014-15.

3.2 Summary of scenarios

Figure 3.1 shows the outlook for South Australian GSP growth over the period to 2019-20 for the base scenario. South Australian GSP growth averages 1.6 per cent per annum under the base scenario between 2009-10 and 2019-20. Table 3.1 shows the projected annual growth rates in GSP for Australia and South Australia for the period 2004-05 to 2019-20.

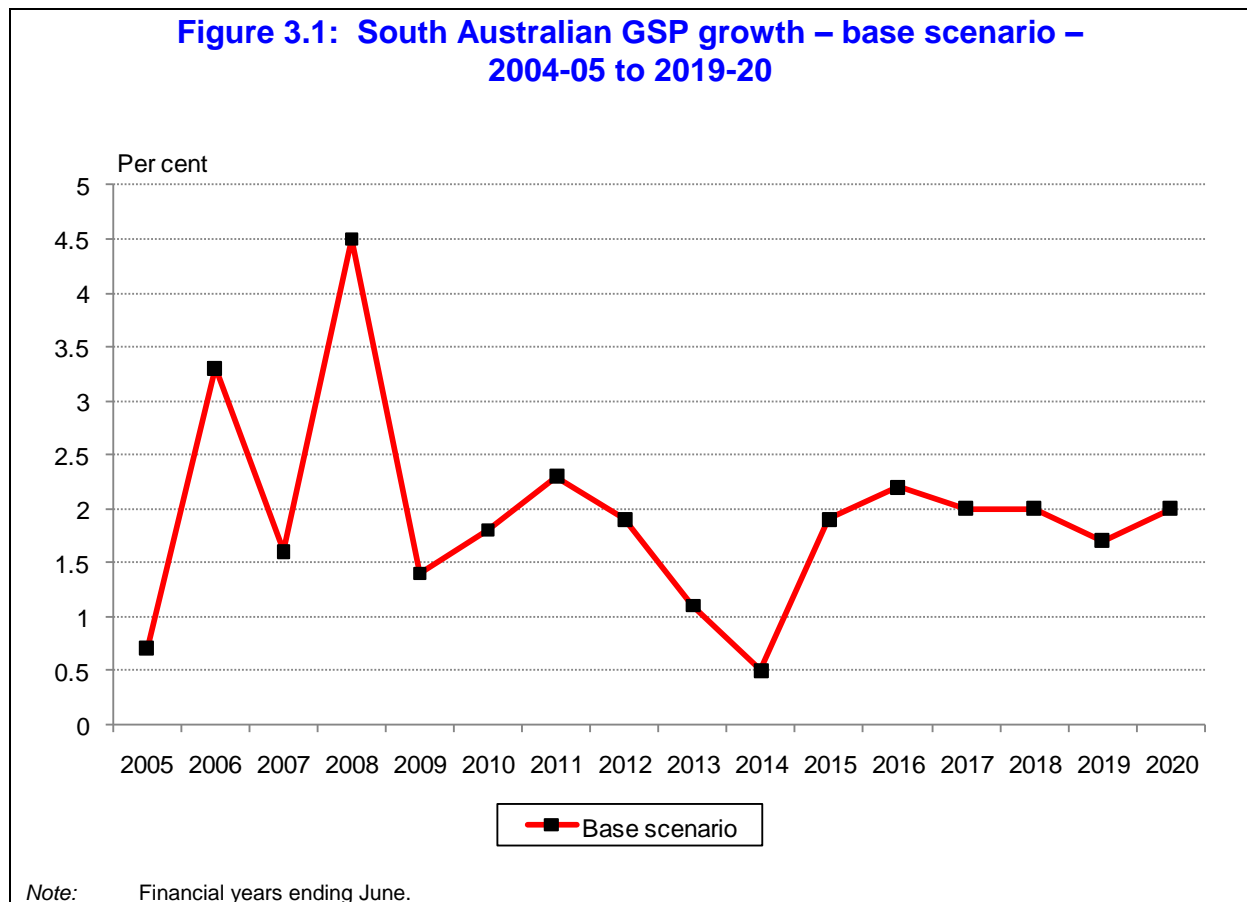


Table 3.1 Projected Australian and South Australian GDP growth rate – base scenario – 2004-05 to 2019-20

	Australia	South Australia
	Base	Base
Per cent change		
2005	2.8	0.7
2006	3.1	3.3
2007	3.8	1.6
2008	3.9	4.5
2009	0.6	1.4
2010	2.4	1.8
2011	3.4	2.3
2012	3.8	1.9
2013	2.6	1.1
2014	1.7	0.5
2015	2.5	1.9
2016	3.4	2.2
2017	3.6	2.0
2018	2.2	2.0
2019	3.5	1.7
2020	3.3	2.0
Compound growth rate (per cent)		
2010-2015	2.8	1.5
2010-2020	3.0	1.8

Note: All growth rates refer to financial years ending June.

3.3 The base scenario outlook for South Australia to 2014-15

Table 3.2 presents selected economic aggregates for the South Australian economy to 2014-15 for the base scenario. A commentary on the main indicators is provided below.

Table 3.2 Macroeconomic aggregates and selected indicators – South Australia (per cent change)									
	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	Compound growth rate 2009-10 to 2014-15
Private consumption	3.8	1.9	1.3	1.8	1.8	1.8	1.0	1.1	1.4
Private business investment ¹	0.3	1.3	9.6	16.8	-0.2	-7.0	-3.6	9.3	1.1
Private dwelling investment	-2.3	3.5	1.5	13.2	-6.0	-8.5	0.1	8.1	-0.4
Government consumption	2.7	2.6	4.9	1.6	1.3	2.0	2.8	2.5	2.0
Government investment	2.6	15.3	47.0	26.3	-9.0	-11.8	-17.6	-6.6	-6.2
State final demand	2.7	2.5	5.0	6.0	0.2	-1.0	-0.4	2.5	1.0
Gross state product	4.5	1.4	1.8	2.3	1.9	1.1	0.5	1.9	1.3
Population	1.1	1.2	1.1	0.9	0.7	0.8	0.9	0.9	0.8
Employment	2.1	1.5	1.0	1.4	1.0	-0.4	-0.8	0.5	0.3

Source: NIEIR and ABS.

Gross state product

South Australian GSP growth was 1.8 per cent in 2009-10, following on from growth of 1.4 per cent in 2008-09. South Australian GSP growth is forecast to be around 2.0 per cent in 2010-11 and 2011-12.

Historically, South Australian GSP growth has been around 1.0 per cent below the national average growth rate. This reflects a number of factors, including weaker population and household expenditure growth, and less significant increases in private business investment compared to other States of Australia.

A significant slowdown in South Australian growth occurs by 2012-13 and 2013-14. Growth is 1.1 per cent in 2012-13 and only 0.5 per cent in 2013-14.

Population

South Australian population growth in 2008-09 was 1.1 per cent, similar to the growth rate recorded over the last three years. Slower population growth in South Australia reflects weaker economic growth and employment growth compared to other States of Australia. On average, South Australian population growth is around 0.6 percentage points lower than the national population growth rate.

Solid population growth in South Australia has been underpinned by:

- an increase in the natural increase in population; and
- larger net overseas migration gains.

The net overseas migration gain by South Australia in 2008-09 was 17,300 persons, significantly higher than 2004-05 where the gain was some 7,000 persons. Some of this increase is associated with the global financial crisis, increasing Australian population growth, as long term and short term residents return to Australia.

Despite higher net overseas migration, South Australia maintains a large stream of net interstate losses to other States of Australia. Net interstate migration losses were nearly 4,700 persons in 2008-09.

On average, South Australian population growth is 0.8 per cent over the 2009-10 to 2014-15 period.

Private consumption expenditure

Private consumption expenditure growth in South Australia slowed to 1.3 per cent in 2009-10, following growth of 1.9 per cent in 2008-09.

Expenditure growth recovers in South Australia with accelerating income and employment growth and improved consumer confidence. Expenditure growth is around 2.0 per cent in both 2010-11 and 2011-12.

The emergence of high nominal interest rates, a fall in housing construction and weakening labour markets leads to a slowdown in private consumption expenditure growth in South Australia. Household expenditure growth in South Australia is around the 1.0 per cent level in 2013-14 and 2014-15.

Private business investment

Private business investment in South Australia is forecast to rise by nearly 10 per cent in 2009-10 and a further 17 per cent in 2010-11.

Historically, the level and growth in private business investment expenditure has been disappointing in South Australia. In 1999-00, the share of private business investment in State GSP was 15.6 per cent. In 2009-10, this share was only 15.9 per cent. This compares poorly to significant increases in this share of private investment expenditure in GSP in Victoria, Queensland and Western Australia.

South Australian private business investment is forecast to fall significantly in 2012-13 and 2013-14.

Dwellings investment

Private dwelling expenditure in South Australia rose by 1.5 per cent in 2009-10 and is forecast to rise by 13.2 per cent in 2010-11.

Stronger levels of new dwelling construction in South Australia have been supported by low nominal interest rates, the extension to the First Home Owners Scheme and stronger underlying demand, the latter associated with higher population growth rates. New dwelling approvals were around 12,000 units in 2008-09.

The emergence of high nominal interest rates by 2011-12, and weakening population growth in South Australia, leads to a decline in private housing expenditure. Private dwelling expenditure falls by 6.0 per cent in 2011-12 and a further 8.5 per cent in 2012-13.

Government expenditure

South Australian government consumption expenditure rose by 4.9 per cent in 2009-10 and is forecast to rise by 1.6 per cent in 2010-11.

The South Australian Government's overall budget position deteriorated in 2008-09. State revenues fell significantly and budget deficits are expected through to 2012-13. This will constrain government current expenditure growth over the forecast period.

Government investment in South Australia is increasing significantly in 2009-10 and 2010-11. This reflects the Commonwealth's economic stimulus package. In the 2009-10 Budget, the South Australian Government announced infrastructure spending of \$11.4 billion over four years, including \$3.9 billion in 2009-10 alone. From 2011-12, government investment expenditure in South Australia falls significantly, partly reflecting the completion of the stimulus package expenditures.

4. Methodological approach – natural gas forecasts for the South Australian network

4.1 Introduction

This section outlines the methodology that has been employed in developing the forecasts for Envestra. The forecasts have been developed for Envestra's South Australian gas distribution network. NIEIR also prepared forecasts for this network in 2005.

The gas network includes the following districts:

- Adelaide (incorporating Barossa Valley);
- Peterborough;
- Port Pirie;
- Riverland;
- South East; and
- Whyalla.

Forecasts do not include gas delivered to north-western Victoria through the South Australian network.

The Adelaide district encompasses three tariff zones: Central, Northern and Southern. The other districts encompass just one tariff zone each.

4.2 Information supplied by Envestra

Envestra has provided the following information to NIEIR to develop the forecasts:

- Tariff R volumes and customer numbers by district (Adelaide, Peterborough, Port Pirie, Riverland, South East and Whyalla) and by tariff blocks on an annual basis from 2005-06 to 2008-09;
- Tariff C volumes and customer numbers by district (Adelaide, Peterborough, Port Pirie, Riverland, South East and Whyalla) and by tariff blocks on an annual basis from 2005-06 to 2008-09;
- Tariff D MDQ and customer numbers by zone (Northern Adelaide, Central Adelaide, Southern Adelaide, Peterborough, Port Pirie, Riverland, South East and Whyalla) and by tariff blocks on an annual basis from 2005-06 to 2008-09;
- daily inflow data from various South Australian gate stations for the period 2004-05 to 2008-09;
- daily telemetry data on each Tariff D customer spanning the period 2004 to 2009;
- historical billing records of all individual Tariff D customers spanning the period 2004 to 2009;
- historical billing records of a sample of residential customers (the sample based on vintage of the meter); and
- other information describing the South Australian gas network and background papers.

4.3 Overall modelling approach

The overall modelling approach for forecasting Envestra's natural gas sales consisted of a combination of:

- (a) econometric based approach for Tariff D and business Tariff V; and
- (b) an end-use based approach for modelling residential sector sales.

As explained below, NIEIR's South Australian gas model was used to forecast Tariff D sales, customers and MDQ. This is an industry based forecasting model and based on estimated econometric equations.

An end-use model was developed to forecast residential sales. This model separated average residential gas usage into:

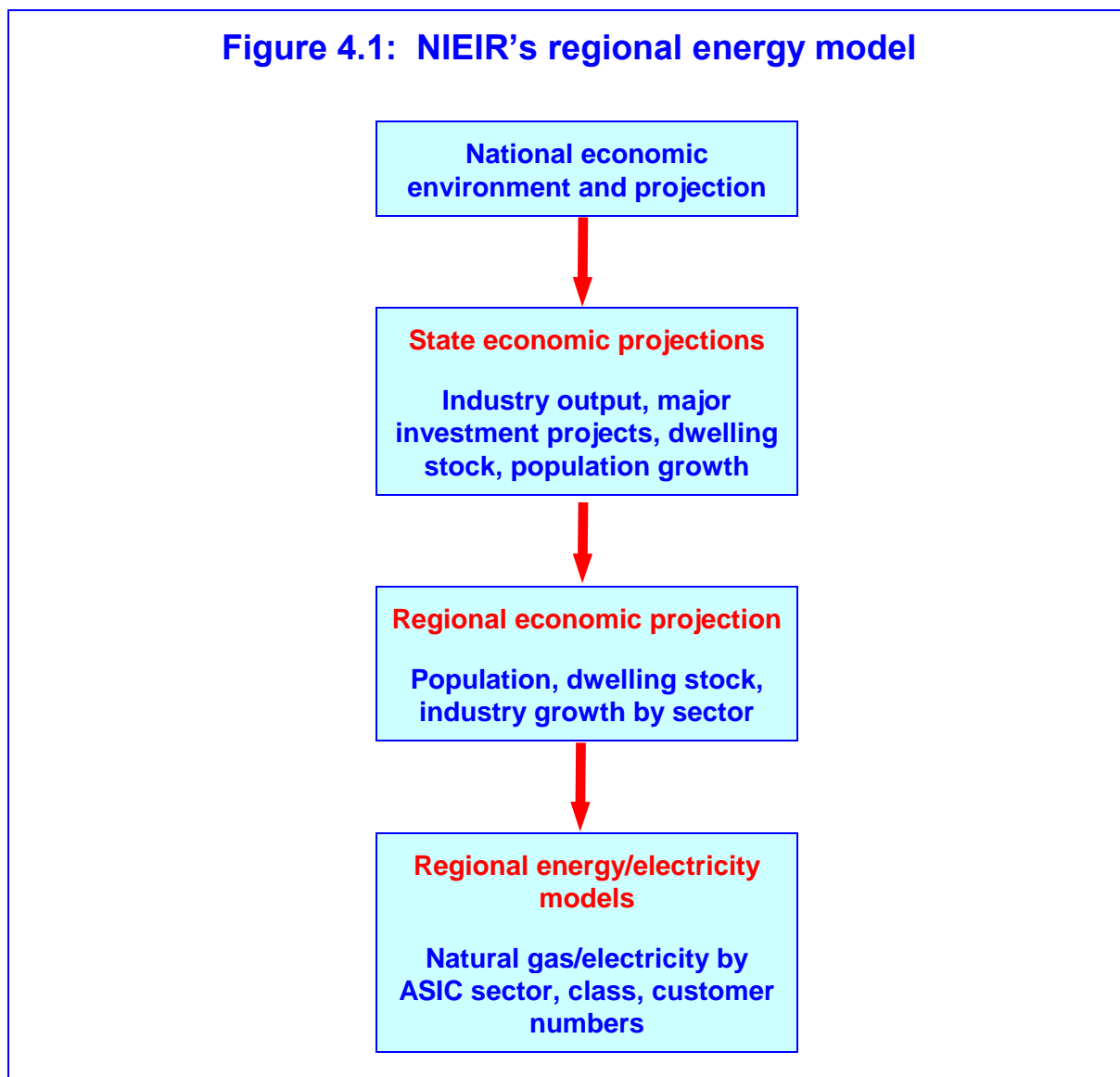
- hot water;
- space heating; and
- cooking.

The main strength of end-use modelling is that the specific Commonwealth and State policies that affect each of these end-uses can be factored directly into the forecast. The end-use forecast was also reconciled against an econometric based forecast of residential gas sales. This combination of econometric and end-use modelling has been standard practice in gas modelling and was used for the last Victorian Gas Access Arrangement Review.

4.3.1 The econometric component – Tariff V business and Tariff D

Forecasts of the Envestra natural gas (sales) volumes have been developed within a regional economic model of the South Australian economy. This model utilises NIEIR's state forecast of gross state product (by industry) and disaggregates it to the Local Government Areas (LGAs) level. These forecasts have been mapped to Envestra's district and zone classification. The concordance between the LGAs and Envestra's zones are presented in Appendix A. Figure 4.1 illustrates the link between NIEIR's national economic models and regional natural gas (sales) volumes.

Figure 4.1: NIEIR's regional energy model



Forecasts of economic outlook

NIEIR's national and State economic models have been used to generate forecasts of the base or most likely scenario. The regional economic model of South Australia implies how the economic scenario maps down to each of the gas district/zone network areas.

Key indicators at the regional level are population, dwelling stock and gross regional product (by industry).

Forecasts of gas (sales) volumes and number of customers

Forecasts of gas (sales) volumes for Tariff D have been developed at industry and zone levels. The industry structure of this model is shown in Table 4.1. NIEIR has assigned an industry classification to every Tariff D customer on the network.

The forecasts for Tariff D were developed for the whole South Australian network (including transmission customers) as well as Envestra Tariff D customers on this network. The latter are referred to as Tariff D Block customers.

The industry regression models relate Tariff D gas consumption to:

- the change in output for that industry within the zone; and
- the change in real gas prices for that industry (incorporating lags in real prices to proxy the long run response or price elasticity).

The output and price elasticities at the zone level have been adjusted to reflect differences in the gas intensity between industries and regions.

The Tariff D forecasts by industry and zone have, therefore, been determined by:

- the outlook for the industry growth in each of the zones; and
- the structural parameters and relationships embodied in NIEIR's industry based South Australian natural gas demand model.

Forecasts of the number of Tariff D customers and MDQ for each zone have also been developed. Forecast of the number of customers and MDQ for each zone have been derived from the forecasts of gas (sales) volumes on an industry basis.

The forecasts of natural gas (sales) volumes for Tariff V by class (residential, commercial and industrial) have been developed for the six district network areas.

Residential sector sales forecasts were developed **initially** using a regression model incorporating real household disposable income and real residential gas prices. The income and price elasticities for the residential model are based on NIEIR's South Australian gas model estimates. Weather normalised volumes were used as the basis for the forecast.

The residential forecasts derived from the econometric model were then adjusted to be consistent with a State-wide end-use model of residential gas usage. This model, which is explained in detail in Section 4.7, disaggregates average gas usage into existing and new customers and by end-use: hot water, space heating and cooking.

The end-use model makes specific assumptions regarding appliance lives, appliance efficiencies and the changing penetration of conventional and new technologies in the hot water and space heating end-use sectors. The assumptions regarding market shares for gas, solar-electric and solar-gas are consistent with those adopted by ETSA Utilities in its recent Access Arrangement submission to the AER in South Australia. Key Commonwealth and State policy impacts are factored directly into the end-use model forecast.

Residential customer number forecasts have been linked to NIEIR's forecasts of the dwelling stock for each of the District network areas.

Forecasts for Tariff V (small commercial and industrial) have been linked to a general equation for gas sales, where sales are related to gas prices and total commercial and industrial output for the district network areas.

Table 4.1 Reconciliation of major customer class categories with ASIC industries

Customer class category	ASIC
Residential	
Commercial	Water and sewerage Construction Wholesale and retail trade Transport and storage Communication Finance, property, business services Public administration and defence Community services Recreation, personal and other services
Industrial	Mining Food, beverages, tobacco manufacturing Textiles, clothing and footwear manufacturing Wood, wood products manufacturing Chemicals, petroleum, coal manufacturing Paper, paper products manufacturing Non-metallic minerals manufacturing Basic metal products manufacturing Fabricated metal products manufacturing Transport equipment manufacturing Other machinery and equipment manufacturing Miscellaneous manufacturing
Farm¹	Agriculture, forestry, fishing, hunting

Notes: ASIC refers to Australian Standard Industrial Classification.

Customer numbers

Residential customer number forecasts for each distribution region are driven by dwelling stock forecasts.

At the State level, dwelling stock forecasts are an output from NIEIR's detailed construction industry models. The model covers residential building, non-residential building and engineering construction. The residential component covers approvals, commencements, completions and the building stock by type of dwelling. Detailed construction forecasts are currently prepared for a number of national companies and State Government departments.

In the South Australian regional model, State forecasts of the dwelling stock are disaggregated into South Australian gas distribution regions. Population growth is the key driver at the regional level.

4.4 Effective Degree Day Index for Adelaide's distribution area

NIEIR investigated alternative options for weather normalising the South Australian gas (sales) volumes data for Adelaide.

As part of this work NIEIR has developed and estimated an Effective Degree Day (EDD) index for Adelaide using the methodologies used by AEMO (formerly VENCORP) for Victoria.

The EDD index is described in more detail below.

The Effective Degree Day (EDD)

Given data on daily gate flow for the Adelaide region, and daily data on around 85 per cent of Tariff D customers in Adelaide, it was possible to derive a daily series of gas consumption that approximates Tariff V customers.

The EDD has been used extensively in the Victorian gas industry to measure weather related effects of gas consumption. The EDD formula was developed in the late 1970s through extensive research of the impact of weather on Victorian residential gas demand. The EDD is believed to be the most effective formula to measure the relationship of gas consumption and weather.

There are four components in the Adelaide daily EDD formula:

$$\begin{array}{llll}
 \text{EDD} & = & \text{DD} & \text{(temperature effect)} \\
 & & + 0.02 * (\text{DD} * \text{WIND}) & \text{(wind chill factor)} \\
 & & - 0.00 * \text{SUNSHINE} & \text{(warming effect of sunshine)} \\
 & & + 2 * \text{COS} ((\text{day} - 200) \pi / 182) & \text{(seasonal factor)}
 \end{array}$$

EDD is 0 if the calculated value from the above formula is negative.

The EDD index was re-estimated using data up to 2008-09.

1. Degree day (DD)

$$\begin{array}{ll}
 \text{DD} & = 18 - T \text{ if } T < 18 \\
 & = 0 \text{ if } T \geq 18
 \end{array}$$

18 degree C is chosen as the threshold temperature for residential gas heating. This is an industry and, to some extent, an international standard.

T is the average of eight three-hourly Adelaide temperature readings (in degree Celsius) from 6:00 a.m. to 6:00 a.m. (with half weighting applied to 6:00 a.m. values) inclusive as measured at the Australian Bureau of Meteorology's Kent Town station. The gas day begins at 9:00 a.m., so the EDD formula implies up to three hours lag in gas demand to changes in ambient temperature.

2. Wind

This is the average of eight three-hourly wind readings (measured in knots) from 6:00 a.m. to 6:00 a.m. measured at the Australian Bureau of Meteorology's Kent Town station.

3. Sunshine

This is the number of hours of sunshine on a gas day above a standard intensity measured at the Australian Bureau of Meteorology's Kent Town station.

4. Cosine function (season factor)

This factor tries to capture seasonality in consumer's response to different weather regimes. In the Victorian experience, it has been found that residential consumers are more likely to turn on the heaters in winter than in other seasons (early spring, late autumn) for the same weather conditions. This facet of consumers' behaviour is captured in the Cosine term in the EDD formula which implies that for the same weather conditions it is felt 2 EDD colder in winter (mid July, day 200 of the year as in the formula) than in other seasons.

Comparison with VENC Corp formulation

The EDD index formula reported above is a slightly modified version of the Victorian EDD index formula. The South Australian EDD index formula differs from the Victorian EDD index formula in that the coefficients in the above EDD formula have been calibrated to the Adelaide weather and daily gas consumption.

Annual number of EDD

Figure 4.2 plots annual EDDs (i.e. sum of the daily EDD estimates) for Adelaide spanning the period 1979-80 to 2008-09. There is a noticeable downward trend in the number of EDDs since 1979-80. This decline has been almost entirely driven by the temperature component of the index² and reflects urban warming in Adelaide due to increased economic and industrial activity and a worldwide trend toward warming temperatures (i.e. "global warming").

The trend decline in the EDD index needs to be taken into account when determining the standard or 'normal' EDD year, as what would have been considered as mild weather year 25 years ago may now be considered as cold weather (i.e. consumers' sensitivity to weather conditions change). The standard EDD year, therefore, is best represented by a linear trend. The linear trend suggests that standard EDD declines by 3 per year. In 2008-09, the standard EDD was 1,296.7. This compares with an actual EDD of 1,307.4, suggesting that weather conditions in 2008-09 were cooler than a standard or normal weather year (see Table 4.2).

² Wind and sunshine component do not exhibit any discernable trend movement.

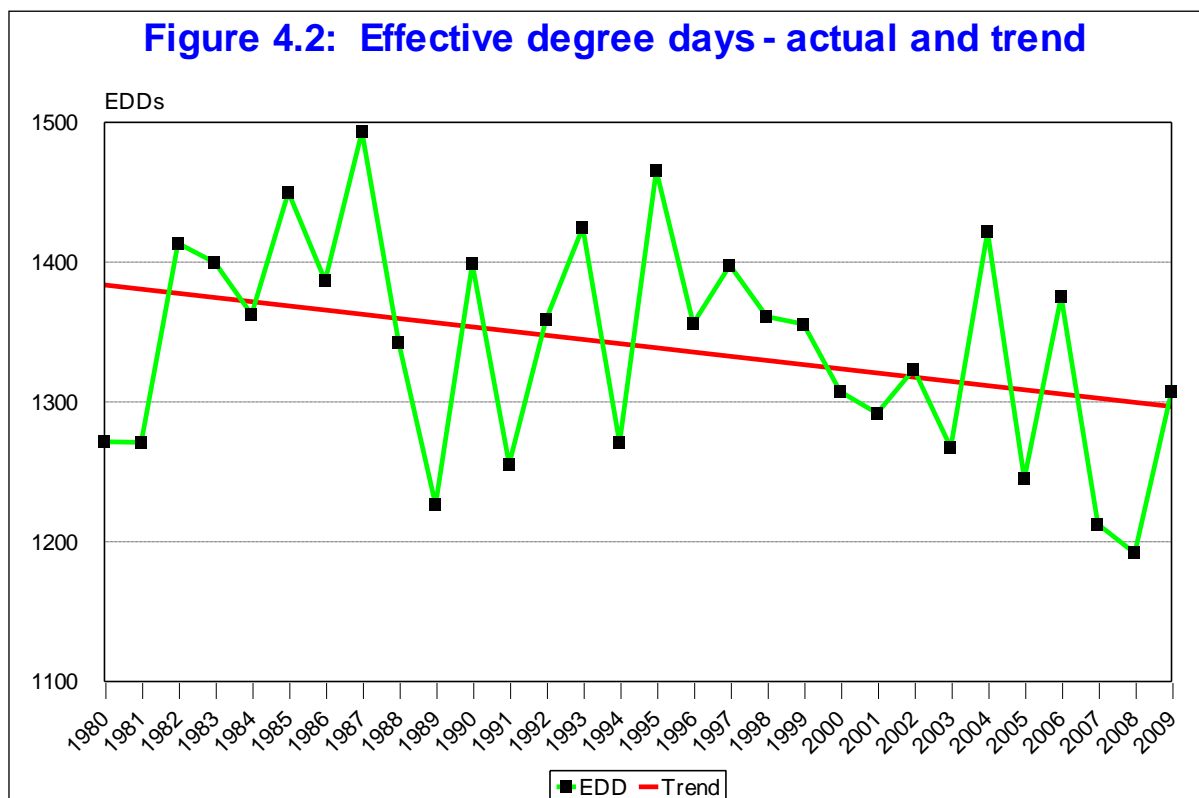


Table 4.2 Actual and trend EDD index values – Adelaide

Years	EDD	Trend
1980	1271.5	1383.7
1981	1271.1	1380.7
1982	1413.4	1377.7
1983	1399.8	1374.7
1984	1362.6	1371.7
1985	1450.0	1368.7
1986	1386.7	1365.7
1987	1493.3	1362.7
1988	1342.3	1359.7
1989	1226.5	1356.7
1990	1398.8	1353.7
1991	1255.5	1350.7
1992	1358.8	1347.7
1993	1424.8	1344.7
1994	1270.7	1341.7
1995	1465.5	1338.7
1996	1356.1	1335.7
1997	1397.8	1332.7
1998	1361.0	1329.7
1999	1355.7	1326.7
2000	1307.4	1323.7
2001	1291.9	1320.7
2002	1323.5	1317.7
2003	1267.4	1314.7
2004	1421.8	1311.7
2005	1245.1	1308.7
2006	1375.3	1305.7
2007	1212.6	1302.7
2008	1191.9	1299.7
2009	1307.4	1296.7

4.5 Weather normalising gas consumption

The EDD index has been used to weather normalise historical gas volumes to standard weather conditions. This allows us to make a like-for-like comparison of gas (sales) volumes between years and with forecast of gas volumes which are on a standard or 'normalised' weather basis.

Historical annual gas volumes have been weather normalised using following formula:

$$\text{Weather normalised volumes} = \frac{\text{actual gas volumes} - \text{Gas-EDD sensitivity} * (\text{actual annual EDD} - \text{standard annual EDD})}{\text{Gas-EDD sensitivity} * (\text{actual annual EDD} - \text{standard annual EDD})}$$

where 'gas-EDD sensitivity' is a factor that measures gas consumption sensitivity to marginal changes in the annual number of EDDs. This factor has been estimated by regressing daily gas volumes against the daily EDD index, a constant and a centred moving average trend of daily volumes (to capture any cyclical movements) and represents the estimated coefficient on the EDD index variable. As gas-EDD sensitivity is likely to change through time due to changes in standards of living, improved energy efficiency, etc., NIEIR has estimated this relationship for each year of data. Table 4.3 presents estimates of the gas-EDD sensitivity factors based on gas inflow data at Adelaide gates after large industrial customers' volumes have been removed; this is a proxy for the Tariff V volumes in Adelaide.

Table 4.3 implies that in 2008-09 the temperature sensitivity of system load was 3.5 terajoules per EDD. Averaging the values over the sample period gives a temperature sensitivity of 3.4 TJs per EDD.

Table 4.3 Gas-EDD sensitivities for Adelaide Tariff V volumes	
Year	EDD sensitivity
2004-05	3.3
2005-06	3.3
2006-07	3.4
2007-08	3.4
2008-09	3.5

The residential and commercial components of Tariff V volumes has been weather normalised by pro-rating the gas-EDD sensitivity factors to the components' relative volume levels. NIEIR has been assumed that small industrial volumes of Tariff V are weather insensitive; this is reflected in the 'pro-rated' factors for residential and commercial.

Further, given the very small volumes of consumption by Tariff V customers in four of the districts, it was decided that weather normalisation would not contribute significantly to the accuracy of the forecasts. The exception is South East, where a small adjustment was made to the actual usage.

4.6 Average residential gas usage in South Australia

Another key element in the forecast prepared by NIEIR for Envestra was an analysis of average residential gas usage. This included a historical analysis and an assessment of the key factors that will influence future usage per customer.

Average small customer gas consumption is an important element in forecasting total volume growth for each of the five pricing zones.

This section outlines recent trends in average consumption, as well as identifying the key drivers of movements in average consumption. This section also focuses on average residential gas consumption per connection.

The analysis of average consumption of gas by residential customers is complex and shaped by a large number of inter-related factors. These include:

- (i) gas appliance penetration rates and their efficiency;
- (ii) existing and future Federal and State Government energy and water policy initiatives;
- (iii) fuel substitution between gas, electricity and solar combinations for water and space heating;
- (iv) changes in dwelling characteristics including building shell;
- (v) socio-demographic changes; and
- (vi) the impact of weather on average usage, or weather normalisation issues.

Factor (vi) was addressed in Section 4.4, which demonstrated a clear trend of warming in Adelaide.

4.6.1 Average residential gas use – recent history

Over 1997-98 to 2008-09 the data in Table 4.4 indicates a steady decline in gas usage per connection from 25.0 GJ/a to 20.0 GJ/a.

Table 4.4 Average annual residential consumption, South Australia (all connections)	
Year	Average residential consumption (GJ/a)*
1997-98	25.0
1998-99	24.3
1999-00	23.2
2000-01	23.7
2001-02	23.6
2002-03	22.8
2003-04	22.6
2004-05	21.7
2005-06	22.0
2006-07	21.1
2007-08	20.6
2008-09	20.0

Note: * Average consumption reflects weather normalised data. Although fundamentally consistent, a revised weather normalisation methodology was introduced from 2002-03 resulting in differing approaches to normalising pre and post 2002-03 data.

Over the 1997-98 to 2008-09 period, a decline of 20 per cent was recorded.

The factors contributing to this sharp fall in average usage per customer include:

- demographic trends;
- improvements in gas appliance efficiency mainly driven by Minimum Energy performance Standards (MEPS);
- water conservation initiatives impacting on hot water loads;
- increasing market penetration of reverse cycle air conditioners (RACs) which are used for heating as well as cooling;
- improved envelope thermal efficiency of existing and new dwellings due to changes to building standards and shell upgrades;
- shifts to solar hot water and heat pumps for water heating; and
- warmer weather.

These factors have more than offset increasing appliance use and thermal comfort enhancements.

In new connections the trends are presented in Table 4.5, again indicating a decline from about 20 GJ/a in 2002-03 to about 15 GJ/a in 2008-09, a decline of 25 per cent. (Note that in an installation year the gas usage will be below the average annual because the installations are spread over the year.)

Read year	Installed year						Degree days	Average GJ/MIRN
	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08		
2002-03	16.14							
2003-04	20.11	17.18					1,063	23.13
2004-05	19.49	19.16	14.84				966	22.04
2005-06	20.38	19.68	18.41	15.32			1,042	21.98
2006-07	20.42	20.13	18.17	17.73	12.57		986	21.09
2007-08	19.31	19.28	17.04	16.78	15.95	11.43	905	20.10
MIRN sample	716	688	761	732	801	801		
Average	19.94	19.56	17.87	17.26	15.95	11.43		

Notes: MIRN = Meter Installation Register Number.

1. A full year of consumption does not occur in the year of connection; full year use by 2008-09 connections is probably around 15 GJ.
2. The data for 2002-03 also includes data for connections that occurred prior to that year.

The decline drivers are similar to those for all connections, the lower average usage mainly reflecting (besides the actual installation date in a reporting year), higher efficiencies of equipment and building envelopes and higher RAC penetrations in newer connections.

New connection requests are monitored by Envestra to identify the appliance types and combination being installed. Expected consumption per connection is tested against the assumed average consumption per appliance in South Australia, taken to be 3 GJ/a for a cooker, 14 GJ/a for a hot water service, 6 GJ/a for a gas boosted solar hot water service, 8 GJ/a for a space heater and 24 GJ/a for a ducted central heater.

4.6.2 Socio-demographic changes

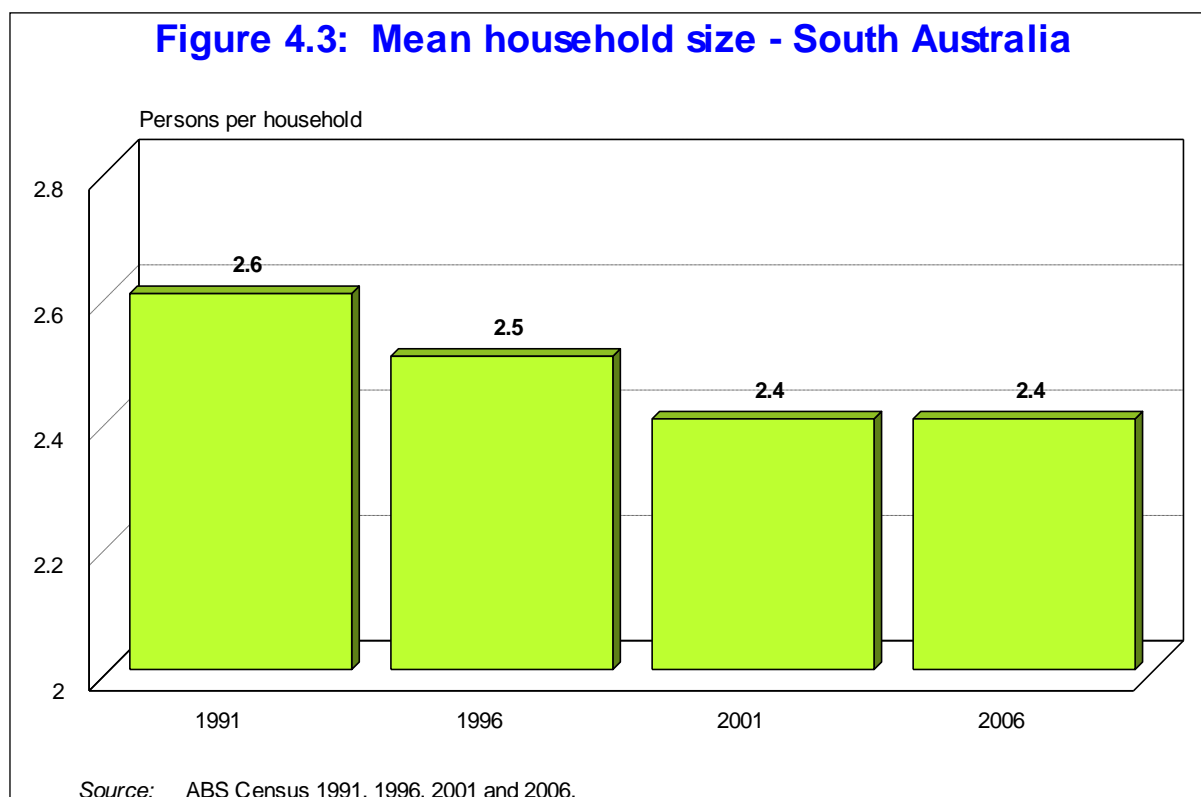
Long term socio-demographic trends in South Australia also reinforce the decline in average residential gas consumption. The key factors in this area include:

- the fall in the number of persons per dwelling;
- the associated increase in the number of single person dwellings; and
- the ageing of the South Australian population.

Persons per dwelling and single person dwellings

The Australian Bureau of Statistics' (ABS) Census provides accurate data on the characteristics of persons and dwellings. The number of persons per dwelling in South Australia has fallen from 3.3 persons in 1971, to 2.5 persons in 1996 and 2.4 persons in 2001 and 2006. The decline in persons per dwelling reflects factors such as a declining fertility rate, rising divorce rates, and an increase in the number of persons living alone.

The fall in household size reduces demands for appliances, such as cookers and also water and space heating. Single person households would only require spot or room heating and not space or area heating. Many single person households would be in apartments or high rise residential developments which would use electric heating (AC) rather than gas heating appliances.



The ageing of the population

Falls in household size also reflect the ageing of the population in South Australia. Table 4.6 shows the percentage distribution of persons by age groups for South Australia from Census 1991, 1996 and 2001. This table highlights a number of trends:

- the fall in share of population in younger age groups;
- the market increase in the 40 to 59 year age group's share of total South Australian population; and
- the increase in the share of the above 70 years of age groups given higher life expectancy.

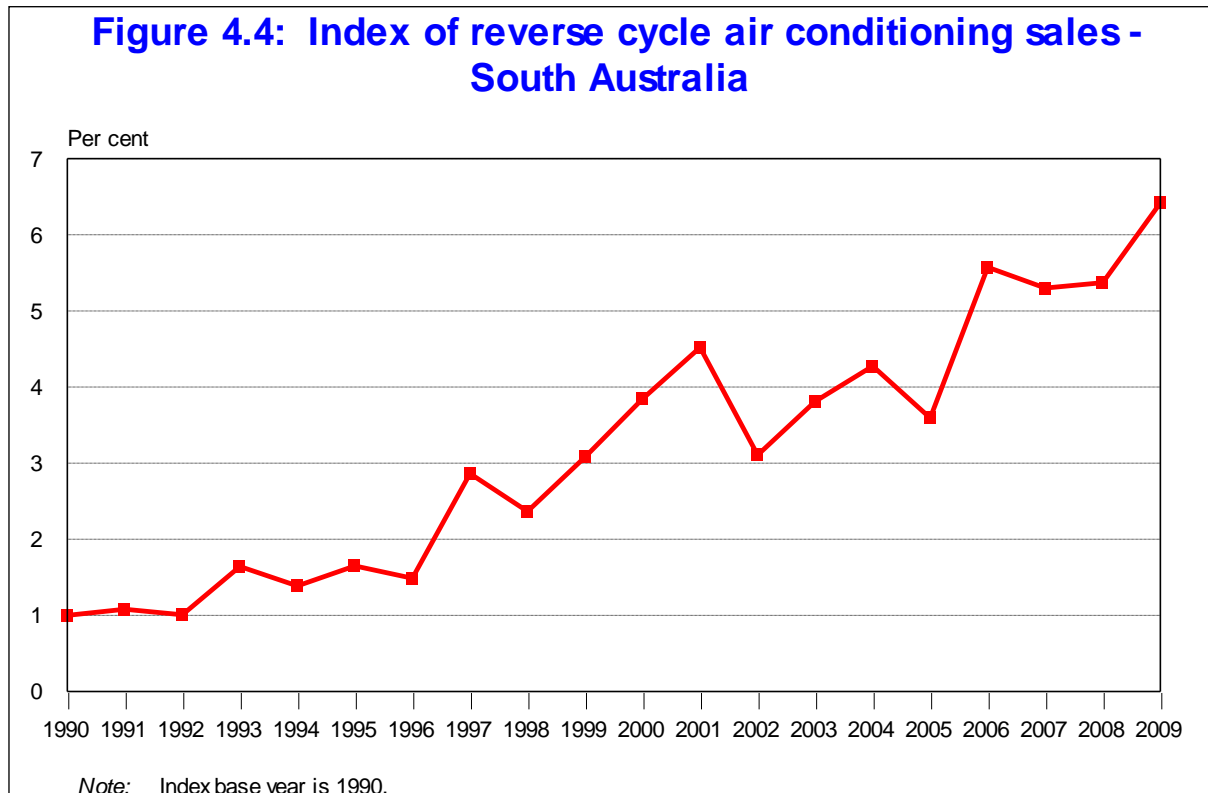
Table 4.6 Share of population by age group – South Australia, Census 1991, 1996, 2001 and 2006				
	1991	1996	2001	2006
Aged 0 4	7.0	6.7	6.1	5.8
Aged 5 9	7.2	6.9	6.7	6.2
Aged 10 14	7.0	7.1	6.8	6.6
Aged 15 19	7.4	6.7	6.9	6.7
Aged 20 24	7.8	7.0	6.2	6.6
Aged 25 29	7.8	7.3	6.4	5.9
Aged 30 34	8.2	7.6	7.1	6.4
Aged 35 39	7.7	7.9	7.5	7.1
Aged 40 44	7.5	7.4	7.7	7.4
Aged 45 49	5.9	7.2	7.1	7.4
Aged 50 54	4.9	5.6	6.9	6.9
Aged 55 59	4.3	4.6	5.3	6.6
Aged 60 64	4.5	4.0	4.3	5.1
Aged 65 69	4.2	4.1	3.7	4.1
Aged 70 74	3.3	3.8	3.7	3.5
Aged 75 79	2.6	2.7	3.2	3.3
Aged 80 84	1.5	1.9	2.1	2.5
Aged 85 and over	1.0	1.3	1.7	2.0
Overseas visitors	0.3	0.4	0.6	0.6
Total	100.0	100.0	100.0	100.0

Source: ABS Census 1991, 1996, 2001 and 2006.

4.6.3 Fuel substitution in the residential sector

Air conditioning sales (including reverse cycle – RCA) have increased dramatically over recent years, both in South Australia and nationally. Figure 4.4 shows an index of reverse cycle sales for South Australia since 1990. Sales over recent years have been six times higher than in the early 1990s. Sales of reverse cycle units in South Australia were nearly 75,000 units in calendar 2009.

The fall in the cost of RCA units and improved design features, combined with changes in the Building Code in South Australia, implies RCA is the preferred option for heating and cooling for many residential customers. The shift towards multi-unit dwellings, or flats, in South Australia reinforces the trend toward RCA. The share of flats in the total dwelling stock in South Australia has increased from 7.6 per cent in 1991 to 8.3 per cent in 2006 (ABS Census data).



4.7 End-use forecasts for gas and associated policy impacts

Introduction

Average residential gas usage in South Australia is declining with average consumption for all connections falling from 25 GJ/a in 1997-98 to 20 GJ/a in 2008-09 (Table 4.4).

Over the period to 2020 NIEIR estimate that **average** per household connection cooking usage may remain constant, space heating usage will drop significantly as RAC penetration continues to increase and thermal integrity of shells improve, and water heating usage per connection will fall as gas-solar proportion of gas water heating increases along with MEPS and water management improvements.

The key assumptions regarding the main end-uses for gas in the South Australian market are outlined below. These are:

- (i) hot water usage; and
- (ii) space heating gas usage.

4.7.1 Hot water

Recent policy developments will have a very significant impact on future gas usage for hot water for both new and existing customers in South Australia. These policy developments are summarised below.

Policy impacts on hot water gas usage

Initiatives affecting electric/gas water heating over the period to 2019 encompass the following.

1. The MCE announced in December 2008 its intention to phase-out conventional electric resistance water heaters. This would apply to new and established homes in gas reticulated areas from 2010. It would also apply to new flats and apartments and established homes in gas non-reticulated areas from 2012.
This measure will probably be implemented through a performance standard specifying the maximum of CO₂e per MJ of delivered water (at a specified temperature) which would be met by solar hybrid, heat pumps and gas water heaters.
No final proposals have been developed for implementation of this policy.
2. Federal rebate of \$1,600 to replace electric resistance water heaters with solar water heaters (solar gas in gas areas) until 2013. Either this rebate **or** the Federal insulation rebate can be taken up by a household (**not** both). There is also a rebate available for landlords to replace electric resistance water heaters.
3. Replacement of electric water heaters with gas or solar (gas in gas areas) is an eligible REES activity.
4. Solar hot water and heat pump installations remain eligible for RECs under RET, including commercial sector applications.
5. South Australian 5 star building standard which requires installation of a solar water heater or a plumbed water tank in new residences.

6. Hot water management, particularly regulations and incentives for installation of low flow shower heads.

Federal incentives

Australian Government's Solar Hot Water Rebate Program

The Australian Government is providing a rebate to eligible home-owners, landlords and tenants who replace their existing electric hot water system with:

- a solar hot water system (\$1,000 rebate); or
- an electric heat pump hot water system (\$600 rebate).

Renewable Energy Certificates (RECs)

A solar or electric heat pump water heater may be eligible for Renewable Energy Certificates (RECs) upon installation. RECs can be sold to help reduce the cost of the water heater. The Australian Government administers RECs through the Office of the Renewable Energy Regulator (ORER).

RECs generated by solar hot water/heat pump (SHW/HP) installations in South Australia more than doubled over 2006-07 to 2008-09 and this trend continued through 2009, indicating increasing penetration of SHW/HP units.

Envestra data indicates that gas boosted SHW units in new home connections increased to 22 per cent in August 2009. This is well above the overall gas boosted South Australian SHW rate of about 6 per cent reported in ABS 4602 in March 2008. Without rebates and RECs the water heating in gas connections would have probably been nearly all conventional gas water heaters.

Rebates

In addition to the Federal solar hot water rebates and eligibility for RECs under the RET, South Australian policies favour straight gas and solar gas installations in gas available areas.

The South Australian Government's Solar Hot Water Rebate Scheme provides a rebate of \$500 on the cost of a new solar or electric heat pump water heater system installed on or after 1 July 2008.

The Rebate Scheme is targeted at low income households to help them comply with the **Performance Standards for Domestic Water Heater Installations**, effective from 1 July 2008. These new standards aim to increase the uptake of high efficiency gas, solar and electric heat pump water heaters.

Eligibility criteria

The following table summarises hot water systems eligible for the rebate.

New system	New home or renovation*		Established home Replacement of existing hot water system			
	No gas** access	Yes gas** access	Gas***	Gas*** solar	Electric element, electric solar, heat pump	All other types – including oil and combustion
Gas solar	Yes	Yes	Yes	Yes	Yes	Yes
Electric solar, or heat pump	Yes	No	No	No	Yes	Yes
Electric or gas storage/instantaneous	No	No	No	No	No	No

Notes: * Renovation – new hot water system not replacing an existing one.
 ** Gas access is natural gas or LPG, reticulated in the street.
 *** Includes reticulated and bottled gas already in use for water heating.

The water heater must be eligible for a minimum of 18 Renewable Energy Certificates (RECs) in ORER zone 3, regardless of the zone in which it is installed. A list of eligible systems is available in the **Register of Solar Water Heaters**.

Eligible applicants are home owners who install a complying water heater, as outlined above, to serve their **principal place of residence**; and at the time of installation, **hold at least one of the following Australian Government concession cards**:

- Centrelink Health Care card;
- Centrelink or Department of Veterans' Affairs Pensioner Concession Card;
- Department of Veterans' Affairs Gold Card – Totally and Permanently Incapacitated;
- Department of Veterans' Affairs Gold Card – War Widow;
- Department of Veterans' Affairs Extreme Disablement Adjustment.

Regulation

With some exceptions permitted (where replacement with alternative systems is not feasible) from 2009 installation of electric resistance hot water systems is banned. Alternative systems are straight gas and solar-gas water heaters, solar-electric and heat pump water heaters.

Water use efficiency improvements, increasing MEPS levels and the availability of appliances at greater than MEPS levels (for example, up to 6.9 stars for instantaneous gas water heating units) will continue to reduce gas usage for specific energy service level applications. These trends are driving down average hot water use per connection.

Water heating: Recent trends in solar hot water/heat pump installations

As water heating is the major gas load in South Australia it is very important to review and update ABS 4602 2008 data.

Since the ABS 4602 2008 Survey in March 2008 there has been a large increase in SHW/HP installations. This increase is analysed below.

The data base of the Office of the Renewable Energy Regulator (ORER), which administers the Renewable Electricity Target (RET) for registered Renewable Energy Certificates (RECs), indicates there has been a very substantial volume of RECs from SHW/heat pumps in 2009 to the end of October 2009. It is not feasible, from the ORER data base and other sources, to distinguish between solar hot water and heat pump RECs, and between RECs from gas and electricity boosted solar hot water units.

The likely final number of RECs and installations in 2009 is presented below in Table 4.7.

Region	Registered RECs to end of October 2009 from 1 January 2009³	RECs per unit¹	Implied units installed²	Estimated units installed in 2009⁴
ACT	44,583	35	1,280	1,830
NSW	2,205,957	35	63,030	90,130
NT	39,329	40	1,000	1,430
QLD	884,034	40	22,100	31,600
SA	228,449	40	5,700	8,150
TAS	109,447	25	4,380	6,260
VIC	1,486,291	30	48,910	70,000
WA	343,113	40	8,600	12,300
Total	5,321,203		154,990	221,700

- Notes:
1. Average allowing for some commercial applications.
 2. Rounded.
 3. Registered SHW RECs totalled 7.6 million for 2009 in April 2010. That is, 43 per cent above registered RECs until the end of October 2009.
 4. To end of October 2009 installations x1.43.

The estimated 2009 RECs would be almost 92 per cent of 2009 RET REC requirements of 8,300,000. There may be an additional 1,000,000 RECs required for Green Power (non-SHW) and voluntary acquittals. Together with an estimate of about 1.7 million RECs from PVs and 6,000,000 banked RECs, the RET 2009 target would be easily exceeded putting downward pressure on REC prices and virtually no incentive to build renewable electricity plants. REC prices dropped from \$50 to below \$30 in 2009 (about \$33 in January 2010). This REC price drop affected solar hot water economics but direct Federal and State rebates appeared to be offsetting this impact.

In February 2010 the Federal Government announced that from 1 January 2011 solar hot water and heat pump RECs would receive a guaranteed price of \$40/REC and a percentage of the RET would be reserved for non-small scale PV renewable electricity plants. After the announcement the REC price rose to \$46 by early May 2010.

The estimated stock of South Australian SHW/HP installations are presented in Table 4.8. From March 2008 to 1 January 2009 SHW/HP installations have increased by about 6,000 in South Australia, and by 2010 total SHW/HP installations reached an estimated 54,000.

Table 4.8 Solar hot water installations, South Australia, 2009			
	March 2008	At 1 January 2009¹	Total, 1 January 2010 (from Table 1)
South Australia	40,000	46,000	54,150

Notes: 1. ABS 4602 plus (1 April 2008 to 1 January 2009) estimates from REC data.

More recent data from installations under the South Australian Solar Hot Water Rebate programs indicates that in 2008-09 gas boosted solar hot water (SHW) systems comprised about 11 per cent of the replacement market and 40 per cent of the new market.

The hot water modelling methodology

The market for gas hot water in South Australia consists of the following:

- (i) new customers or connections for new dwellings;
- (ii) replacement of existing gas hot water in existing dwellings; and
- (iii) replacement of electric or other hot water in existing dwellings (electric to gas are sometimes known as E to G).

For new customers in South Australia ((iii) above), around 80 per cent are assumed to take gas (mains, including solar boosted). Around 20 per cent are assumed to take solar-electric or heat pump technologies.

For existing customers with gas hot water ((ii) above), 100 per cent are assumed to remain with mains gas to water and/or solar gas systems.

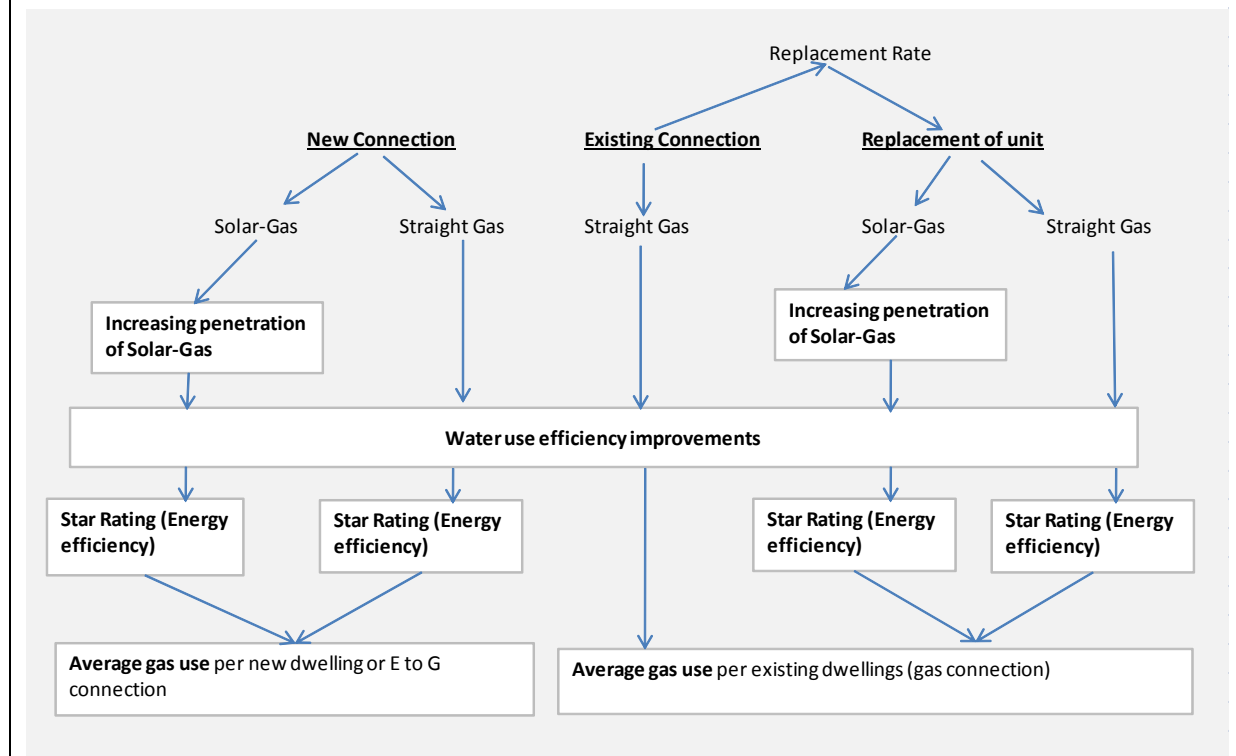
For existing electric resistance hot water customers ((iii) above which are banned), it was assumed:

- 5 per cent replace with electric storage;
- 81 per cent replace with solar-electric; and
- 14 per cent replace with solar/gas.

These assumptions are consistent with those in the ETSA Utilities Access Arrangement submission.

Figure 4.5 described the modelling process in determining the declining average gas use in hot water heating. The diagram shows how various measures impact the average gas usage in both new and existing dwellings.

Figure 4.5: Hot water model – change in average gas usage for water heating, South Australia 2010-2020



The modelling process and assumptions in forecasting average gas use of customer connections consist of the following.

(i) **Replacement rate**

Over time energy using appliances will be replaced as they approach their technical (wear out) and economic (when replacement is economical) lives. The assumption used for modelling the average appliance life of a hot water heater is estimated as 12 years. A replaced unit can be one of many types of hot water systems.

(ii) **Penetration rate/market share/appliance mix**

In estimating a mix of the type of units currently in dwellings, and estimating the future mix for gas water heating customers it is important to look at the current penetration rate in South Australian gas reticulated dwellings, and to estimate a future mix of unit types based on current trends as well as policy influences such as available national and state rebates and the impact of the banning of electric resistance hot water heaters.

Unit types considered in the modelling:

- straight gas hot water heater:
 - instantaneous;
 - storage;
- solar-gas hot water heaters; and
- solar-electric/heat pump.

The increasing popularity of solar-gas hot water heaters is evident in the ABS cat. 6402.0.55. Together with REC benefits, state and national subsidies, the incentive to purchase solar-gas is higher than before. One of the assumptions in the modelling estimated that in new dwellings, around 80 per cent of gas hot water heaters systems installed, is forecast to be solar-gas and the remainder instantaneous or storage gas.

In existing dwellings, this increasing trend towards gas-solar is also forecast, however only to the extent of 30 per cent for solar-gas by 2020.

A forecast of the type of gas units installed is split between instantaneous and storage units. A BIS Shrapnel report indicated that the mix between instantaneous and storage units in South Australia in 2008 is 60 to 40 per cent respectively. Storage hot water in new dwellings is estimated to drop as the overall average proportion of units to 7 per cent by 2020.

(iii) **Water use efficiency** – water efficient shower heads, water restrictions, and general awareness of water conservation will lead to lower demand for gas in hot water heating. It is estimated that a 5 per cent reduction in average gas use is achieved by 2020 from water use efficiency.

(iv) **Energy efficiency (star ratings)**

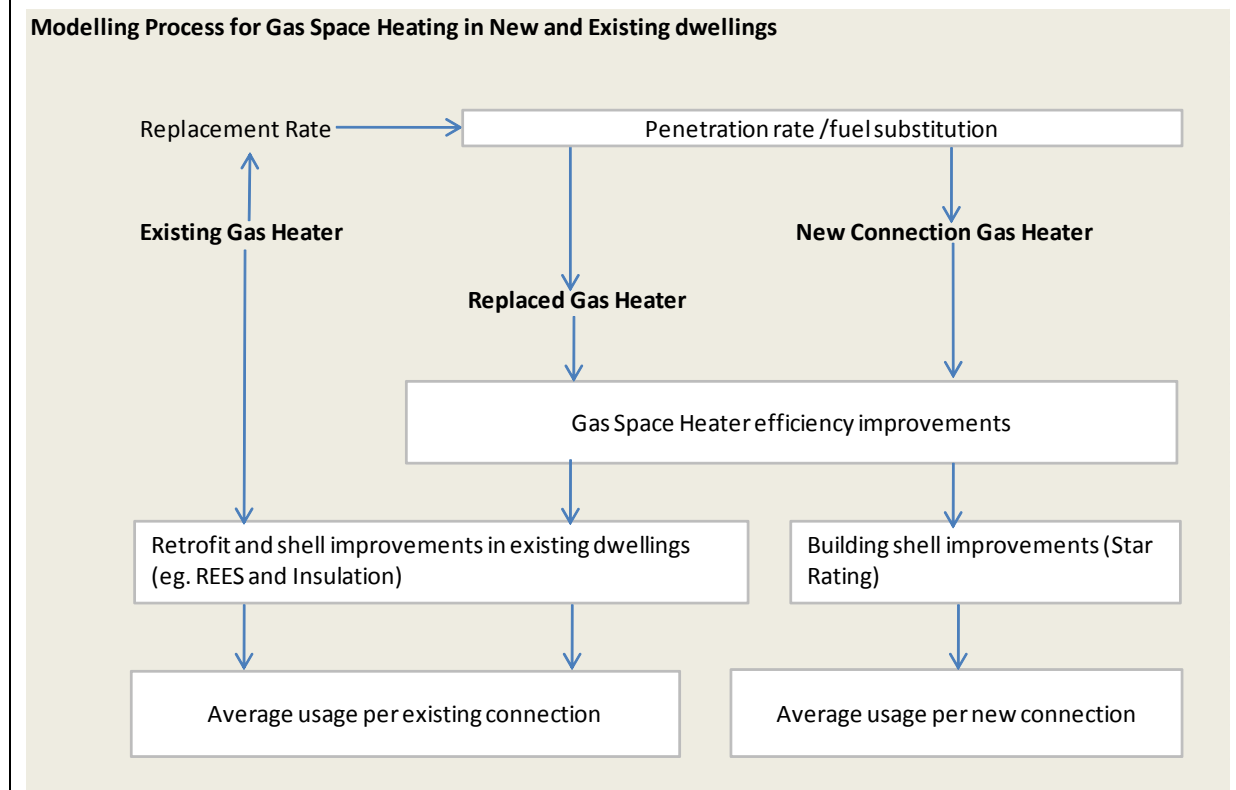
South Australia's REES will reinforce a shift to higher efficiency gas units and solar-gas units in water heating. MEPS is a big driver of higher efficiency in appliance nationally therefore it is expected that the average efficiency of hot water heaters will improve beyond natural technological improvement, driven by policy aimed at energy efficiency. Some assumption in the modelling regarding the average efficiency ratings in South Australian hot water heaters are outlined below.

- **Solar-gas hot water** – An assumed 1 per cent efficiency improvement on average in the new solar-gas hot water systems per annum.
- **Straight gas hot water** – as the average star rating increases in the appliances, the average use of gas per connection will also increase. The average star rating for all appliances is forecast to be 7 stars by 2020, from 4 stars currently. That is an estimated 1.8 per cent efficiency improvement and therefore a reduction in the average use of gas for hot water heating.

Modelling average gas use in residential dwellings for heating

Figure 4.6 represents the modelling methodology for forecasting the average gas consumption from heating. The same group of customer types are considered as in the hot water modelling. Policy impacts which affect heating include REES, Building Standards and MEPS.

Figure 4.6: Modelling process for gas space heating, change in average gas usage 2010-2020



Historically average usage of gas in households has been decreasing. In forecasting average usage of gas for space heating (an element of total gas use), it is important to look at the things affecting usage and their patterns. The way gas heating is utilised within homes depends on three different categories for gas space heating connections:

- existing dwellings with gas space heating;
- new gas space heaters as a result of replacing a faulty one; and
- New connection to gas heating – new dwelling *or* electricity to gas transfers.

Assumptions of the key impacts on forecasts of average usage of gas for heating include the following.

- Replacement rate** – Over time energy using appliances will be replaced as they approach their technical (wear out) and economic (when replacement is economical) lives. The lifecycle of a typical gas space heater is estimated at 17 years.
- Gas space heater efficiency improvement (energy efficiency ratings)** – the efficiency of appliances is constantly improving and is assisted by policies such as MEPS and energy ratings. As energy star rating move from say 4 stars to 5 stars, you can expect an 8 per cent saving in energy consumed. South Australian REES will reinforce the move to higher efficiency appliances.

- (iii) **Shell improvement (building standards)** – improvements in the shell of new dwelling comes from higher building standards leading to more efficient gas use. The current average star rating is assumed at approximately 4 stars. In 2020 the average star rating of a gas space heaters in all South Australian dwellings, is estimated to be 7 stars. A 3 star improvement over 10 years, that is a reduction of approximately 1.8 per cent in average gas use annually.

In terms of existing dwelling, retrofitting for higher efficiency such as new windows, insulation etc. Half a per cent per year is estimated as a saving due to retrofit in existing dwellings

- (iv) **Penetration rate/fuel substitution** – gas space heating competes with other forms of heating, particularly the option of a combined heating and cooling device, that is a high penetration of Reverse Cycle Air conditioners (RCA). The market share for gas space heaters in new dwellings, is forecast to reduce from 26.6 per cent in 2008 (ABS Cat. 6402) to 10 per cent in 2020.

Cooking

Efficiencies, gas-electric combinations, or all electric units and lifestyle changes constrain the demand for gas in cooking applications. Cooking gas usage in South Australia is assumed to remain constant at 3 GJs per connection out to 2020.

4.8 Gas prices and the CPRS

Greenhouse policy

On the 15 December 2008, the Australian government released the White Paper on the Carbon Pollution Reduction Scheme. This paper confirmed an emissions trading scheme is to be introduced by 2010-11. The White Paper outlines the final design of the Carbon Pollution Reduction Scheme, and a target range for reducing carbon pollution. NIEIR's assessment of the White Paper and the implications for permit and electricity prices is provided below.

It was announced in May 2009 that the introduction of the CPRS has now been delayed to July 2011, and permits would be capped at \$10 per tonne in 2011-12. The full Market would commence in July 2012.

However, on 27 April 2010 the Federal Government announced deferment of the CPRS until 2013, at the earliest, due to:

- (i) inability of government to have the CPRS legislation passed in the Senate; and
- (ii) slow progress on global climate change negotiations.

Permit (CO₂e) prices and electricity prices (\$/MWh), 2010-2030

Despite the CPRS deferral, we still believe some form of carbon pricing will be in place and lead to increases in electricity and gas prices. The quantitative impact will be determined by a range of factors: the CPRS caps set, the costs of reducing GHG emissions domestically (which will depend on the prices of black coal and natural gas, and GHGA technologies such as CCS and renewables), the price, availability and Australian use of international permits, and other specific design features of the CPRS or its replacement.

In our base (most likely) scenario out to 2030, we now assume that carbon pricing will commence in 2014 and that carbon (CO₂e) will be gradually increased through 2030. Similar gas coal and renewables and CCS prices to Treasury and similar impacts (pass through) of CO₂e prices on electricity prices given in the White Paper.

We believe, despite uncertainties, that the magnitudes are reasonable in the absence at this time of better information and data.

Caps – domestic permits and international permits

The interaction of these two (unrestricted) sources of eligible CPRS permits could have a significant impact on GHGA under the CPRS or a policy package with a similar impact on Australian emissions.

International permit prices in A\$ will determine their contribution to attainment of CPRS caps. Some Treasury scenarios have international permits contributing over 50 per cent of cap attainment.

An emissions cap would determine the number of carbon pollution permits that will be issued by the Government. Allowable emissions across the sources covered by the Scheme will be able to exceed the cap only if the excess is matched by the surrender of eligible international units, additional domestic permits issued as a result of forestry activities, additional permits

issued under the price cap mechanism or, if allowed, Scheme offsets (see Chapter 6 of the White Paper).

In a system with little or no international linkage, the interaction between the cap and the demand for permits is the primary determinant of the carbon price: the more stringent the Scheme cap, the higher the price, all other things being equal. However, in the preferred CPRS design the Government had decided to allow unlimited imports of eligible international units from Scheme commencement and to review the scope for exporting permits over time (see Chapter 11 of the White Paper). This means, depending on the level of international prices and the longer term Scheme linking policy, the domestic Scheme cap may be a less significant determinant of domestic carbon (CO₂e) prices. Over time, the domestic carbon price is expected to converge on the international price, which in turn will be determined by global abatement demand and supply conditions.

The Scheme cap-setting arrangements would remain important, however, because the Scheme cap will reflect national emissions targets and Australia's international obligations. As the number of eligible international units that may need to be purchased will be determined by the ambition of national targets, targets would be the key to the overall cost to the Australian economy.

	Residential	Business	Total
2004-05	21.1	9.5	11.8
2005-06	21.8	9.6	12.1
2006-07	22.2	9.6	12.2
2007-08	22.2	9.6	12.2
2008-09	22.2	9.6	12.2
2009-10	22.2	9.6	12.2
2010-11	22.2	9.6	12.2
2011-12	22.2	9.6	12.2
2012-13	23.0	10.4	13.0
2013-14	23.8	11.2	13.8
2014-15	23.9	11.3	13.9
2015-16	24.1	11.5	14.1
2016-17	24.3	11.7	14.3
2017-18	24.5	11.9	14.5
2018-19	24.7	12.2	14.8
2019-20	25.0	12.5	15.0

5. The economic outlook for the gas distribution regions in South Australia

5.1 Introduction

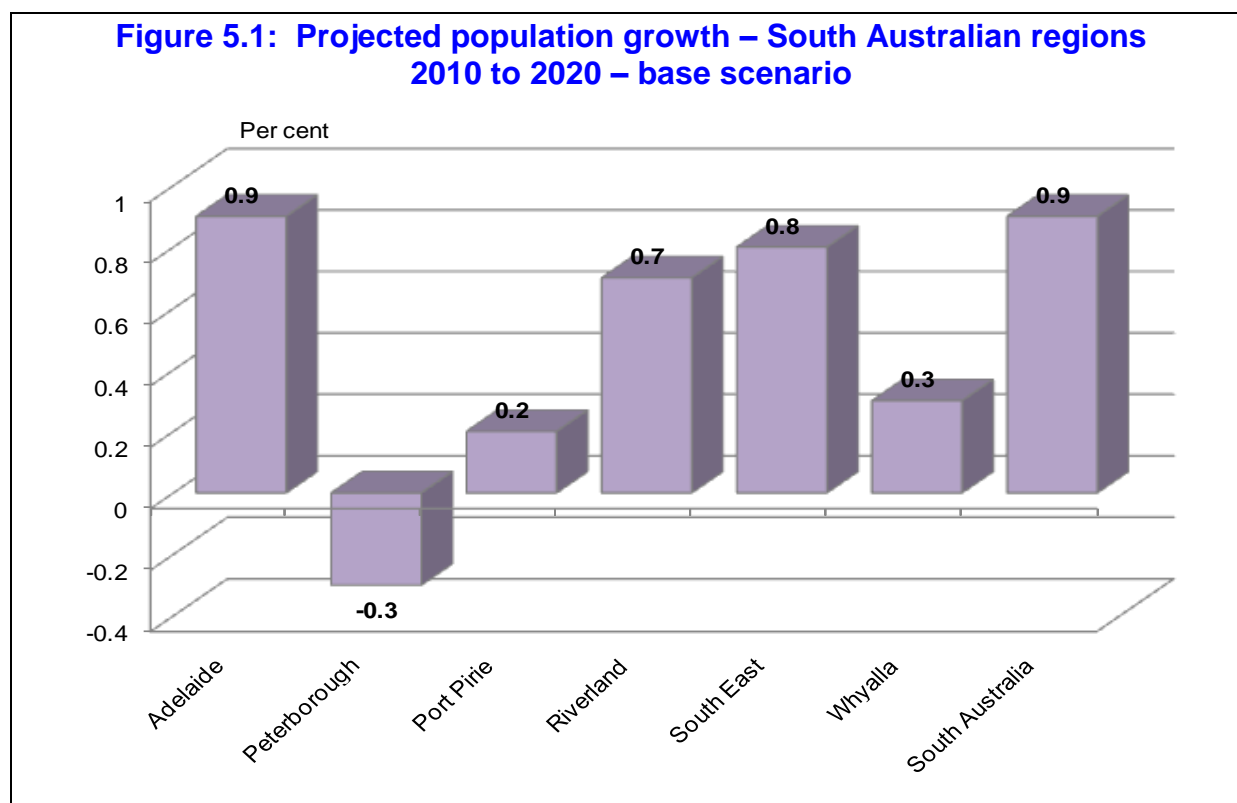
This section summarises the outlook for the region within South Australia. Forecasts of population, dwelling stock and gross regional product are presented to 2019-20 by scenario.

5.2 Regional economic outlook to 2020

The South Australian gas distribution network includes the following regions:

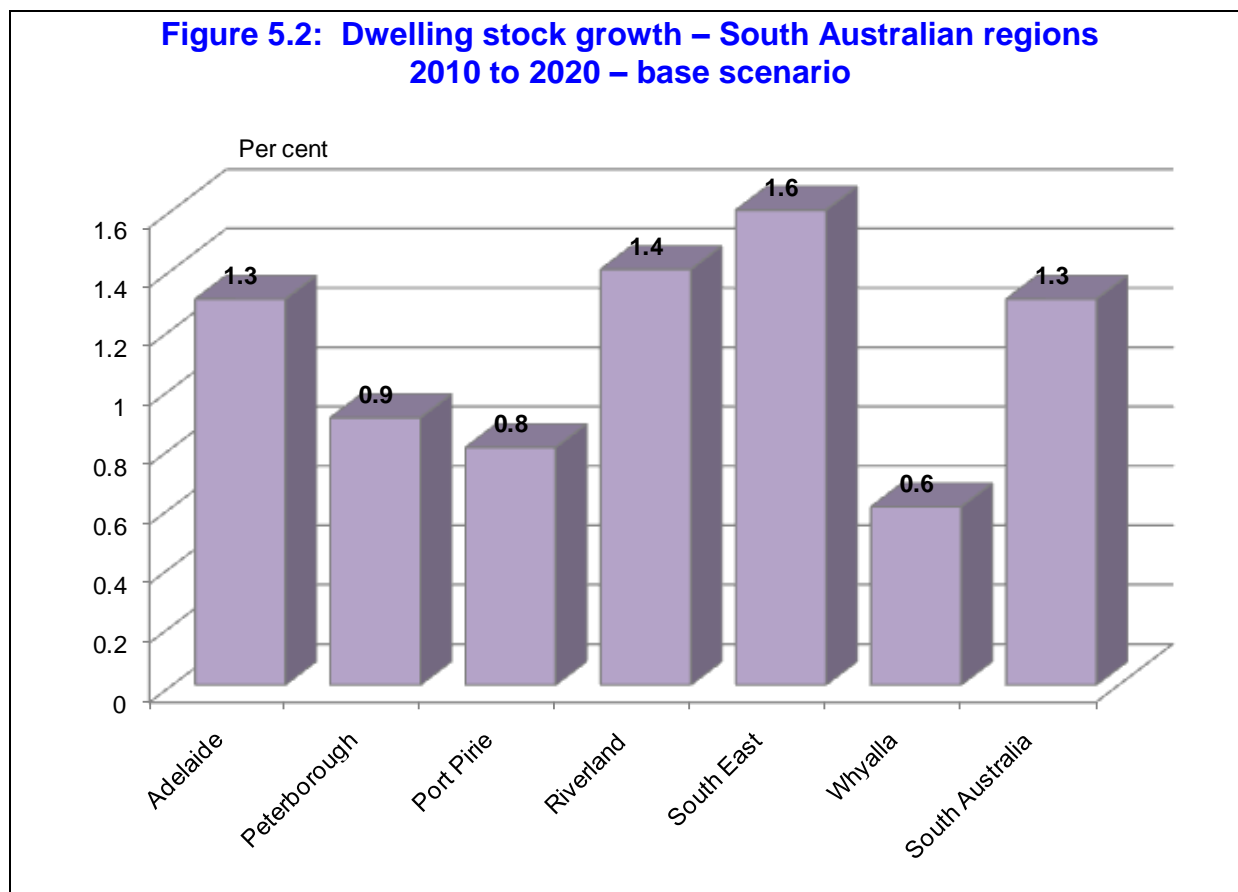
- Adelaide (incorporating the Barossa Valley);
- Peterborough;
- Port Pirie;
- Riverland;
- South East; and
- Whyalla.

Table 5.1 shows projected population growth for each of the six regions. Figure 5.1 shows the projected growth in population by region.



Population growth averages 0.9 per cent per annum in the Adelaide region and 0.7 and 0.8 per cent average growth in the Riverland and South East regions, respectively. Population declines in Peterborough and rises only slowly in Port Pirie and Whyalla.

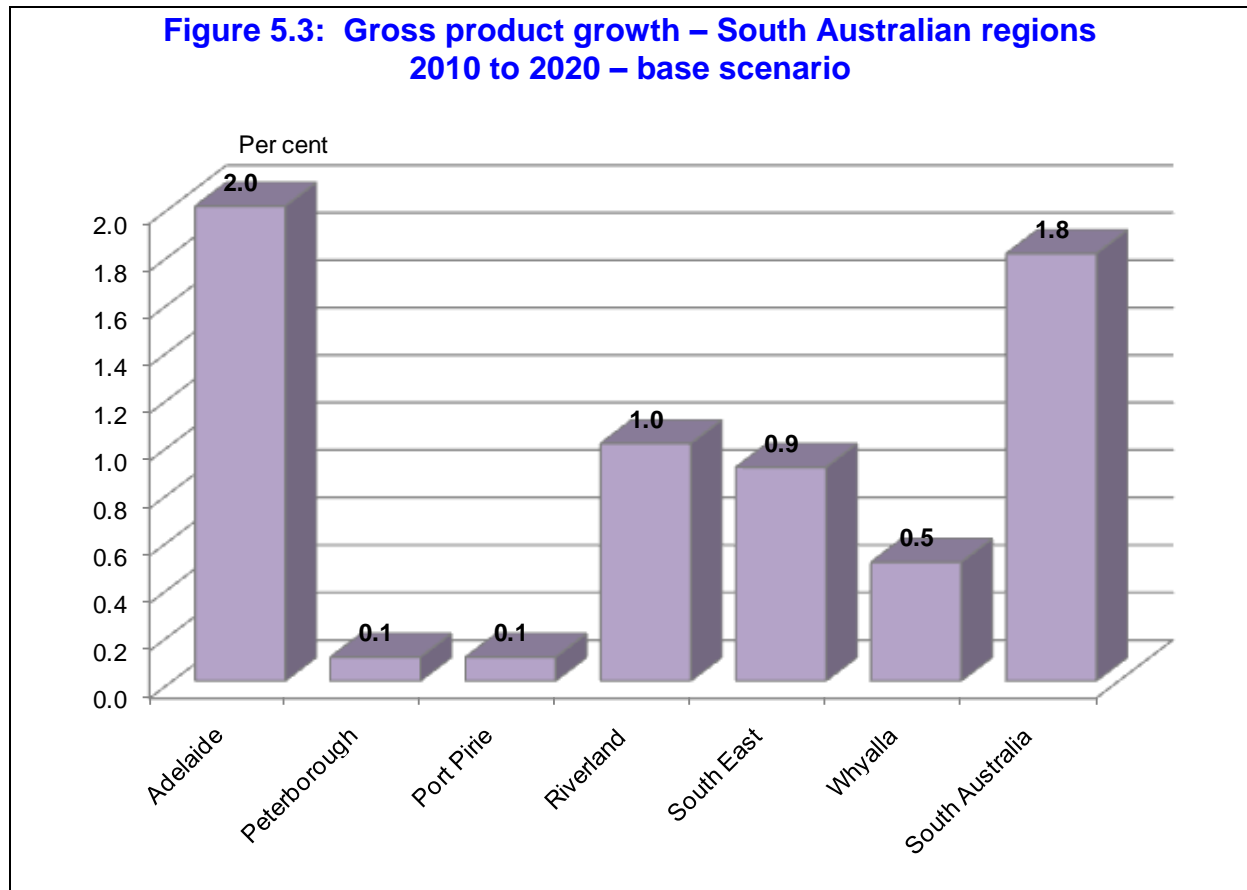
Table 5.2 shows projected dwelling stock growth for each of the six regions to 2019-20. Figure 5.2 shows the projected growth in the dwelling stock by region over the 2009-10 to 2019-20 period.



The strongest projected growth in the dwelling stock is in Adelaide and the South east regions of South Australia. Growth in the Riverland region is around 1.4 per cent average growth over the 2010 to 2020 period.

There is no significant growth in the dwelling stock projected for the Peterborough and Whyalla regions of South Australia.

Table 5.3 shows forecasts of gross regional product by region to 2019-20. Figure 5.3 shows the projected growth in gross product by region over the 2009-10 to 2019-20 period.



The strongest gross product growth is forecast in the Adelaide region. The Adelaide region represented nearly 77 per cent of total South Australian gross State product in 2008-09. The Riverland region is projected to grow by 1.0 per cent over the 2010 to 2020 period. Relatively weak growth is forecast for the Peterborough and Port Pirie regions of South Australia.

TABLE 5.1 POPULATION BY REGION - SA

	ADELAIDE	PETERS- BOROUGH	PORT PIRIE	RIVERLAND	SOUTH EAST	WHYALLA	NON-GAS RETICUL- ATED	TOTAL SA
UNIT	***** '000 *****							
2006	1113.32	1.89	16.95	28.39	23.27	21.60	303.56	1508.97
2007	1126.23	1.89	17.01	28.66	23.50	21.71	306.60	1525.60
2008	1139.31	1.89	17.08	28.93	23.74	21.82	309.69	1542.46
2009	1153.61	1.89	17.16	29.23	24.00	21.96	313.09	1560.94
2010	1168.53	1.89	17.25	29.55	24.27	22.10	316.66	1580.25
2011	1180.46	1.89	17.29	29.79	24.47	22.19	319.40	1595.48
2012	1189.81	1.88	17.30	29.96	24.63	22.22	321.43	1607.24
2013	1200.31	1.88	17.32	30.16	24.80	22.27	323.77	1620.52
2014	1211.61	1.87	17.35	30.39	24.99	22.34	326.32	1634.87
2015	1223.13	1.87	17.38	30.61	25.19	22.41	328.91	1649.50
2016	1235.07	1.86	17.41	30.84	25.39	22.49	331.61	1664.68
2017	1246.78	1.86	17.44	31.07	25.59	22.56	334.24	1679.55
2018	1257.76	1.85	17.46	31.28	25.78	22.61	336.67	1693.41
2019	1268.33	1.85	17.47	31.48	25.95	22.66	338.97	1706.71
2020	1280.22	1.84	17.50	31.71	26.15	22.73	341.63	1721.78
PERCENTAGE CHANGES								
2007	1.16	-0.03	0.39	0.95	0.99	0.52	1.00	1.10
2008	1.16	-0.03	0.39	0.95	1.00	0.52	1.01	1.10
2009	1.25	0.07	0.48	1.04	1.09	0.62	1.10	1.20
2010	1.29	0.10	0.52	1.08	1.13	0.65	1.14	1.24
2011	1.02	-0.17	0.25	0.81	0.85	0.38	0.86	0.96
2012	0.79	-0.39	0.02	0.58	0.63	0.16	0.64	0.74
2013	0.88	-0.30	0.11	0.67	0.72	0.25	0.73	0.83
2014	0.94	-0.24	0.17	0.73	0.78	0.30	0.79	0.89
2015	0.95	-0.23	0.18	0.74	0.78	0.31	0.80	0.89
2016	0.98	-0.21	0.20	0.77	0.81	0.34	0.82	0.92
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	1.19	0.00	0.42	0.98	1.03	0.55	1.04	1.13
2011-2016	0.91	-0.28	0.14	0.70	0.74	0.27	0.75	0.85
2010-2020	0.92	-0.27	0.15	0.71	0.75	0.28	0.76	0.86

All data are for the financial year ending in June of the year specified.

TABLE 5.2 DWELLING STOCK BY REGION - SA

	ADELAIDE	PETERS- BOROUGH	PORT PIRIE	RIVERLAND	SOUTH EAST	WHYALLA	NON-GAS RETICUL- ATED	TOTAL SA
UNIT	*****			'000	*****			
2006	451.64	0.87	7.02	11.43	9.58	9.01	120.38	609.92
2007	458.05	0.88	7.08	11.60	9.75	9.08	122.32	618.76
2008	464.51	0.89	7.15	11.78	9.93	9.15	124.28	627.69
2009	471.47	0.90	7.22	11.97	10.11	9.23	126.38	637.28
2010	478.64	0.91	7.29	12.16	10.31	9.31	128.54	647.16
2011	485.47	0.92	7.36	12.35	10.49	9.38	130.63	656.60
2012	492.33	0.93	7.43	12.54	10.68	9.46	132.73	666.09
2013	497.62	0.93	7.47	12.68	10.83	9.50	134.40	673.44
2014	502.76	0.94	7.51	12.83	10.99	9.54	136.05	680.62
2015	508.25	0.95	7.56	12.98	11.15	9.58	137.80	688.26
2016	514.39	0.96	7.61	13.15	11.32	9.63	139.73	696.80
2017	521.60	0.97	7.68	13.35	11.52	9.71	141.95	706.78
2018	528.59	0.97	7.74	13.55	11.72	9.78	144.13	716.47
2019	535.21	0.98	7.80	13.73	11.91	9.84	146.21	725.68
2020	542.02	0.99	7.86	13.92	12.11	9.90	148.35	735.15
PERCENTAGE CHANGES								
2007	1.42	1.04	0.92	1.53	1.79	0.78	1.61	1.45
2008	1.41	1.03	0.91	1.52	1.78	0.77	1.60	1.44
2009	1.50	1.12	1.00	1.61	1.87	0.86	1.69	1.53
2010	1.52	1.14	1.02	1.63	1.89	0.88	1.71	1.55
2011	1.43	1.05	0.93	1.54	1.80	0.79	1.62	1.46
2012	1.41	1.04	0.91	1.52	1.79	0.77	1.61	1.45
2013	1.07	0.70	0.57	1.18	1.44	0.44	1.27	1.10
2014	1.03	0.66	0.53	1.14	1.41	0.40	1.23	1.07
2015	1.09	0.71	0.59	1.20	1.46	0.45	1.28	1.12
2016	1.21	0.83	0.71	1.32	1.58	0.57	1.40	1.24
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	1.44	1.07	0.94	1.55	1.82	0.80	1.64	1.47
2011-2016	1.16	0.79	0.66	1.27	1.54	0.53	1.36	1.20
2010-2020	1.25	0.87	0.75	1.36	1.62	0.61	1.44	1.28

All data are for the financial year ending in June of the year specified.

TABLE 5.3 GROSS REGIONAL PRODUCT BY REGION - SA

	ADELAIDE	PETERS- BOROUGH	PORT PIRIE	RIVERLAND	SOUTH EAST	WHYALLA	NON-GAS RETICUL- ATED	TOTAL SA
UNIT	***** '000 *****							
2006	42759.55	26.81	467.48	926.76	919.62	772.17	9958.35	55830.73
2007	44124.29	26.67	469.64	910.69	916.25	787.56	9505.12	56740.21
2008	45973.61	26.83	466.75	943.45	936.24	787.26	10133.84	59267.99
2009	46188.09	27.38	470.27	969.78	951.44	793.90	10703.99	60104.85
2010	46893.80	27.91	474.46	992.79	968.42	797.99	11031.37	61186.74
2011	47943.54	28.31	479.17	1019.31	988.81	805.32	11336.94	62601.38
2012	49109.78	28.05	474.61	1023.07	993.19	799.26	11350.95	63778.91
2013	49847.54	27.65	466.84	1016.47	986.12	792.42	11343.45	64480.48
2014	50185.77	27.43	464.00	1010.32	984.09	793.69	11363.38	64828.67
2015	51237.12	27.54	466.20	1024.50	996.44	800.23	11507.73	66059.77
2016	52485.63	27.67	468.76	1041.17	1010.97	807.88	11677.60	67519.69
2017	53618.98	27.78	471.04	1056.16	1024.03	814.71	11830.38	68843.07
2018	54799.68	27.90	473.36	1071.63	1037.51	821.71	11988.14	70219.94
2019	55824.60	28.00	475.34	1084.95	1049.11	827.70	12123.98	71413.67
2020	57052.38	28.12	477.66	1100.77	1062.88	834.78	12285.37	72841.95
PERCENTAGE CHANGES								
2007	3.19	-0.51	0.46	-1.73	-0.37	1.99	-4.55	1.63
2008	4.19	0.61	-0.62	3.60	2.18	-0.04	6.61	4.46
2009	0.47	2.04	0.75	2.79	1.62	0.84	5.63	1.41
2010	1.53	1.93	0.89	2.37	1.78	0.52	3.06	1.80
2011	2.24	1.43	0.99	2.67	2.11	0.92	2.77	2.31
2012	2.43	-0.91	-0.95	0.37	0.44	-0.75	0.12	1.88
2013	1.50	-1.42	-1.64	-0.65	-0.71	-0.86	-0.07	1.10
2014	0.68	-0.79	-0.61	-0.60	-0.21	0.16	0.18	0.54
2015	2.09	0.40	0.48	1.40	1.26	0.82	1.27	1.90
2016	2.44	0.46	0.55	1.63	1.46	0.96	1.48	2.21
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	2.60	0.71	0.20	1.52	1.14	0.93	2.44	2.49
2011-2016	1.83	-0.45	-0.44	0.43	0.44	0.06	0.59	1.52
2010-2020	1.98	0.07	0.07	1.04	0.94	0.45	1.08	1.76

All data are for the financial year ending in June of the year specified.

6. Natural gas demand forecasts to 2020 – Envestra

This section presents natural gas demand forecasts by class and tariff to 2020 for the Envestra distribution regions. Forecast numbers were prepared on a financial year basis to 2020.

A base, or most likely, scenario was developed. The economic projections associated with this outlook were outlined in Sections 3. The methodology and modelling assumptions relating to natural gas was outlined in Section 4.

Forecasts of natural gas sales are presented for the following:

- total by class;
- total by tariff; and
- MDQ by sector.

Appendices B, C and D provide forecasts by region of sales, customer numbers for Tariff V and D and MDQ forecasts for Tariff D.

6.1 The base scenario – total natural gas sales by class

Under the base scenario, South Australian gross regional product grows by 1.8 per cent in average terms between 2010 and 2020. Population rises by an average rate of 0.9 per cent between 2010 and 2020.

Tables 6.1 and 6.2 show projections of natural gas sales and customer numbers by class and scenarios for financial years to 2019-20. Figure 6.1 shows the average volume growth by class between 2009-10 and 2019-20. These are actual volumes and weather corrected volumes are presented later in Table 6.3. Average growth over the 2010 to 2020 period in total natural gas sales is 0.0 per cent per annum.

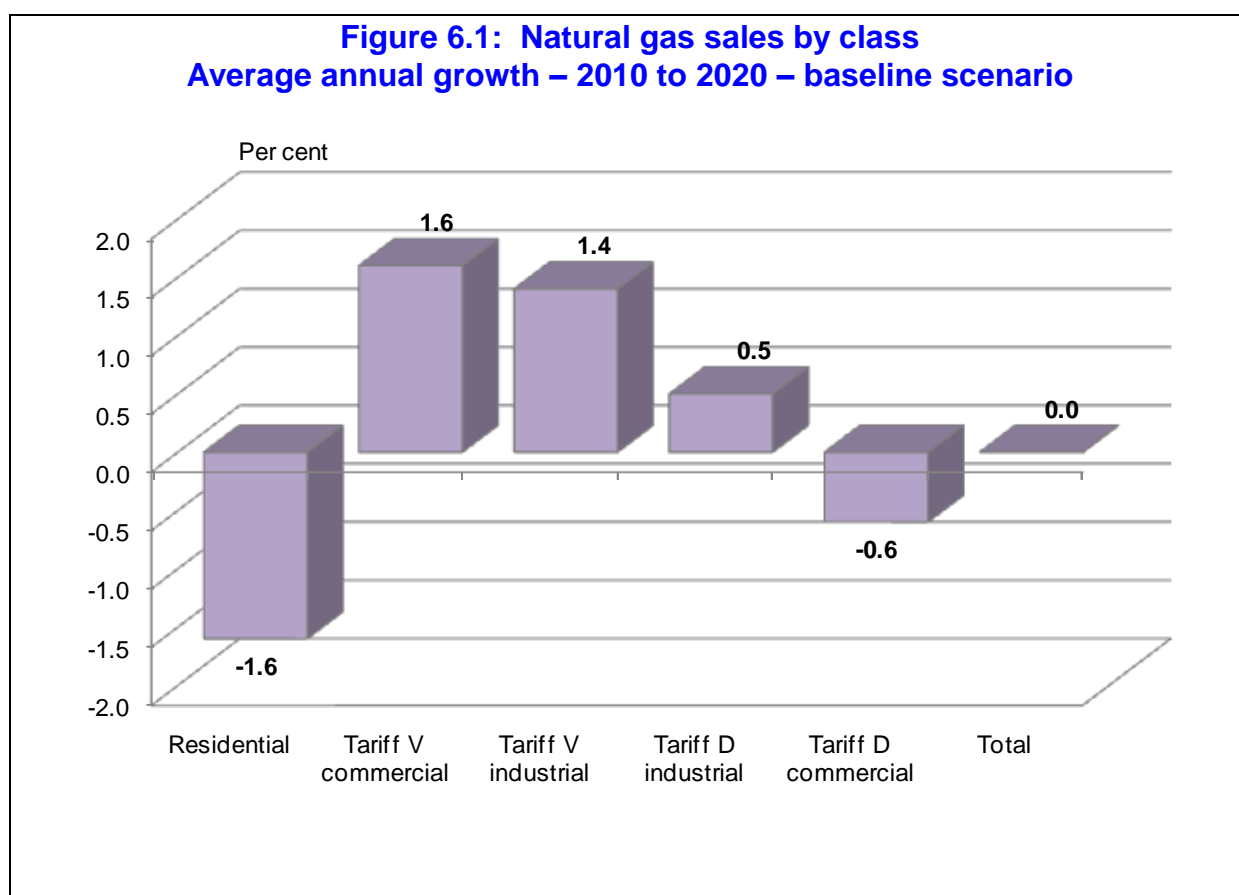
The main movements by class are:

- Residential natural gas sales fell by 3.4 per cent in 2007-08 and rose by only 4.8 per cent in 2008-09. These movements largely reflect weather in these years. Due to a number of policy developments, the outlook for residential sales growth in South Australia is poor. Significant falls in average residential gas usage are expected for both new and existing customers, particularly given the importance of hot water and increased penetrations of solar gas hot water.

Tables 6.4 and 6.5 show the components of residential sales growth by type of customer, existing and new for Adelaide and South Australia respectively. Over the 2011 to 2016 period, the efficiency gain for existing customers is 3.1 per cent per annum on average. For new customers, there are also significant efficiency gains over the 2010 to 2020 period. These reflect:

- the introduction of the 5-star energy rating in May 2006 and extension to 6 star, reducing average usage by new customers;
- a significant switch to solar hot water, both for new and existing residential customers;

- small gains in space heating efficiency, partly reflecting increased insulation and more efficient appliances;
- the introduction of new MEPS for gas appliances;
- the introduction of MEPS reduces gas usage by existing and new customers;
- Tariff V commercial volume growth is forecast to rise by 1.4 per cent in 2009-10. On average, commercial sector Tariff V sales increase at an average rate of 1.6 per cent between 2010 and 2020; and
- commercial and industrial Tariff D volume growth is forecast to be -0.6 and 0.5 per cent respectively between 2010 and 2020. Industrial growth resumes with greater economic activity in 2011-12. The pattern of load movements for industrial Tariff D largely reflect the cycles in construction activity forecast, as these are directly reflected in gas usage by the non-metallic minerals sector. The Tariff D projection does not factor in any further major industry closures as we have seen in recent years and, therefore, must be considered as optimistic.



6.2 Total natural gas sales by class – weather corrected sales

Weather corrected energies were derived on a class basis for Envestra using the Effective Degree Day Index and the relevant NIEIR regression model for each class. The classes subject to weather correction include:

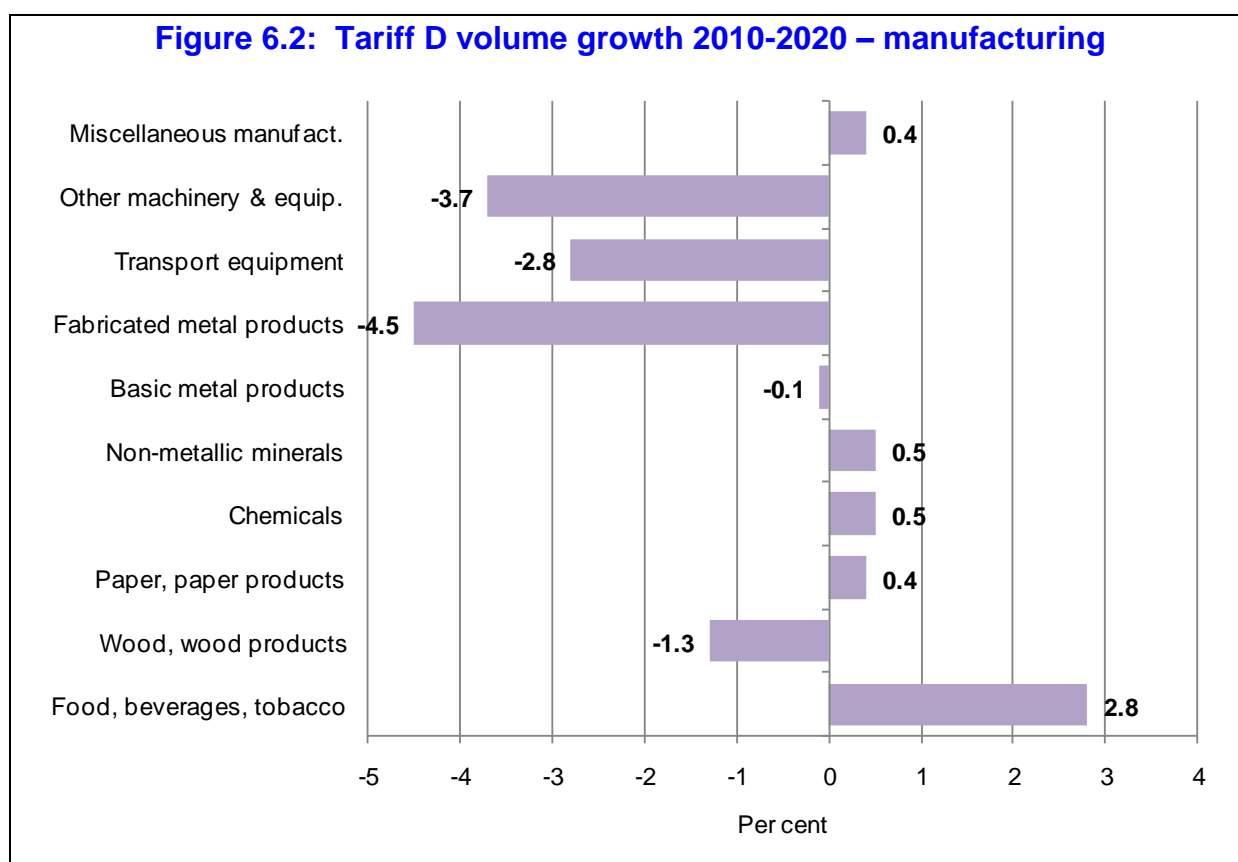
- residential;
- commercial Tariff V; and
- commercial Tariff D.

Commercial V customers represent all business customers under 1 terajoule. Industrial V customers represent business Tariff V customers over 1 terajoule. The key features of this work are outlined in Section 4 of this report.

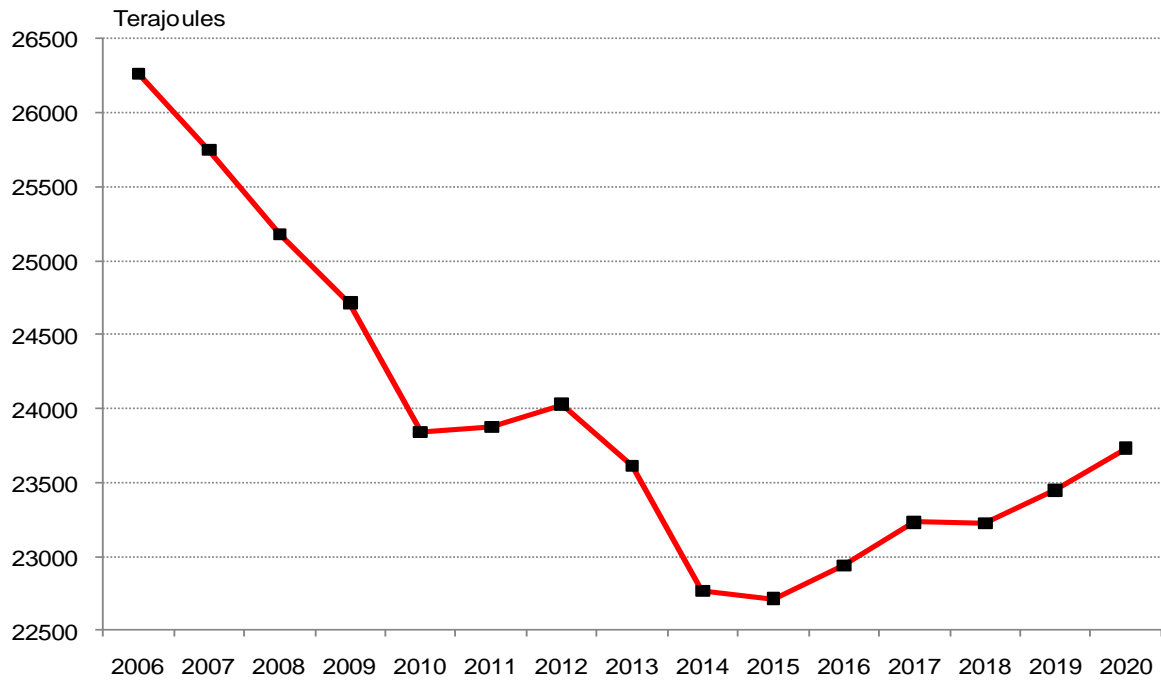
Table 6.3 presents weather corrected gas sales by class on a financial year basis.

The key features of the weather corrected natural gas sales by class on a financial year basis are:

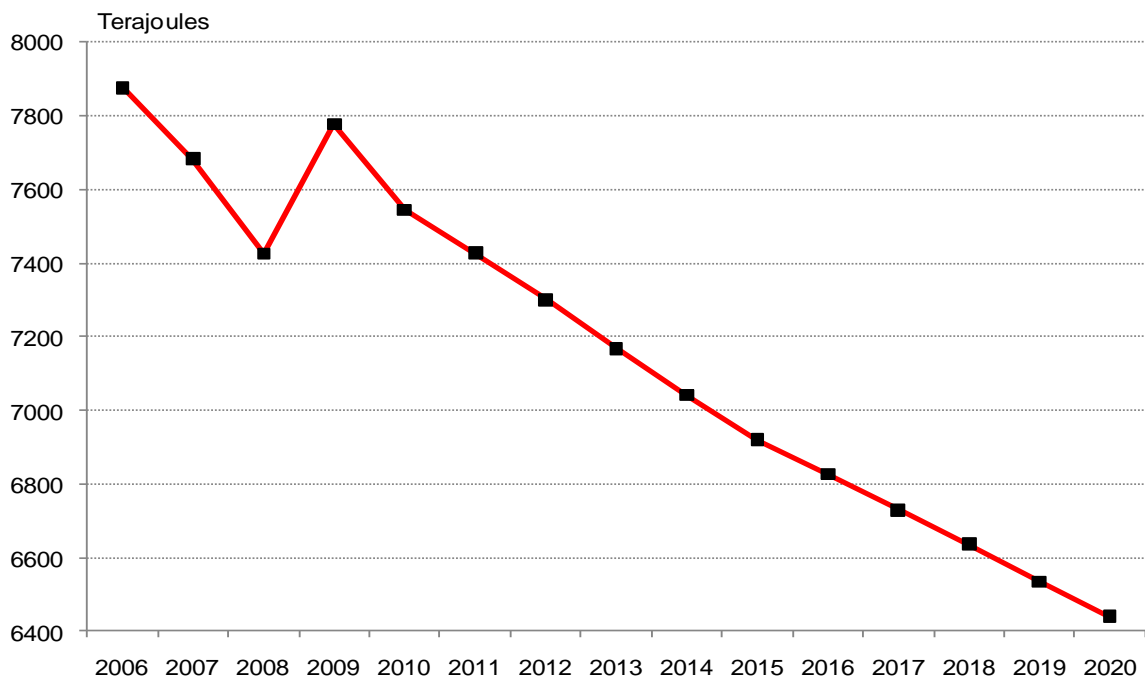
- total weather corrected gas sales growth averaging 0.0 per cent between 2010 and 2020; and
- average residential sales growth of -1.6 per cent between 2010 and 2020;



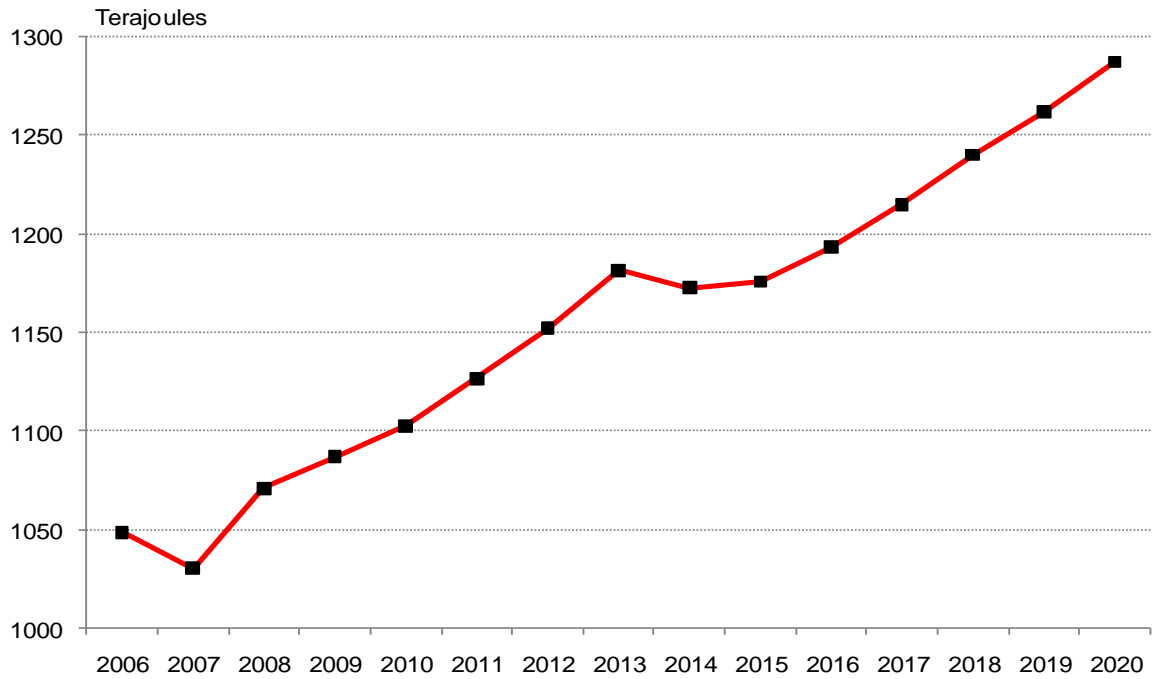
**Figure 6.3: Natural gas sales by class – total
Envestra (TJ) – base scenario**



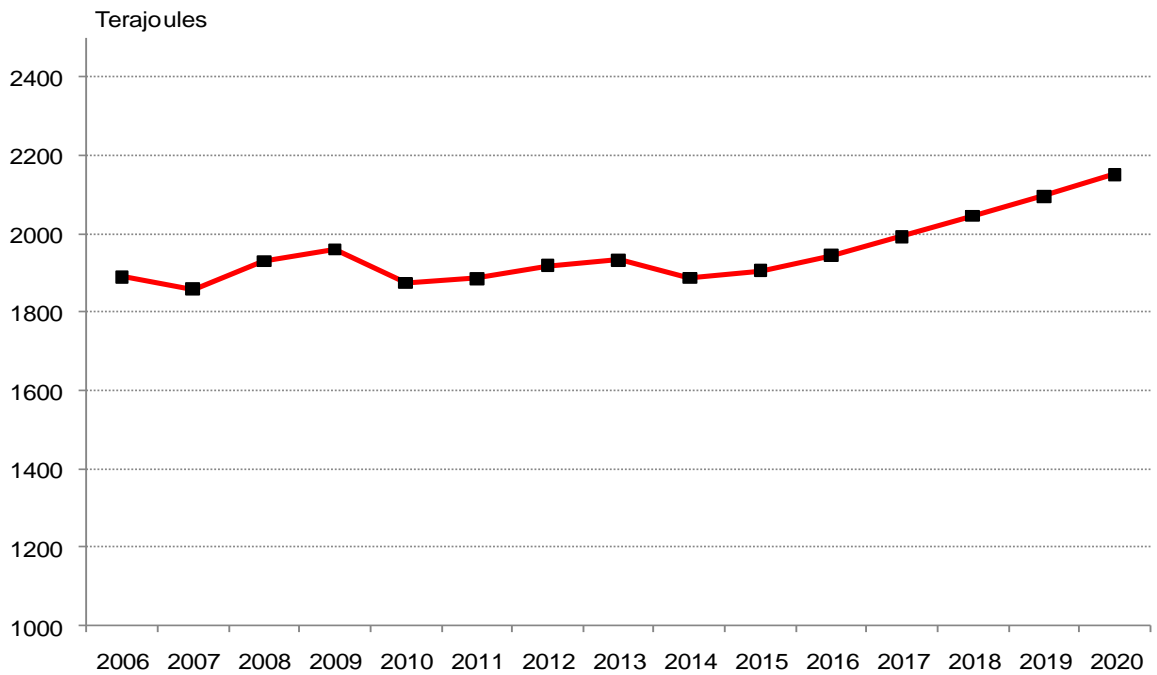
**Figure 6.4: Natural gas sales by class – residential
Envestra (TJ) – base scenario**



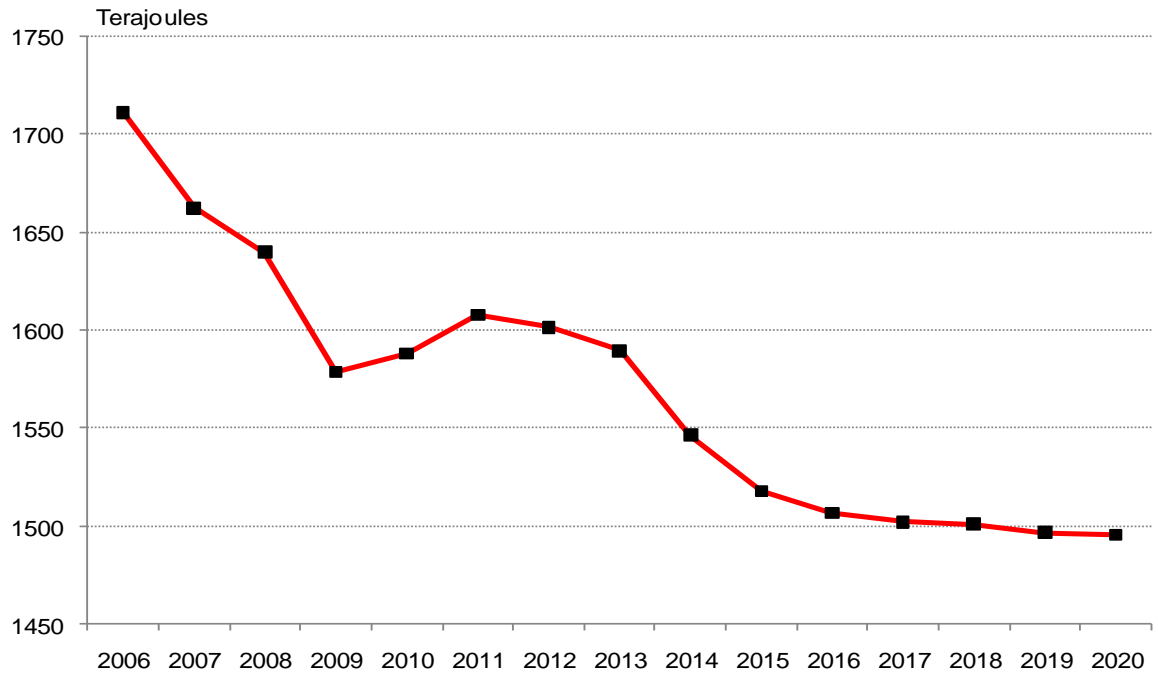
**Figure 6.5: Natural gas sales by class – commercial Tariff V
Envestra (TJ) – base scenario**



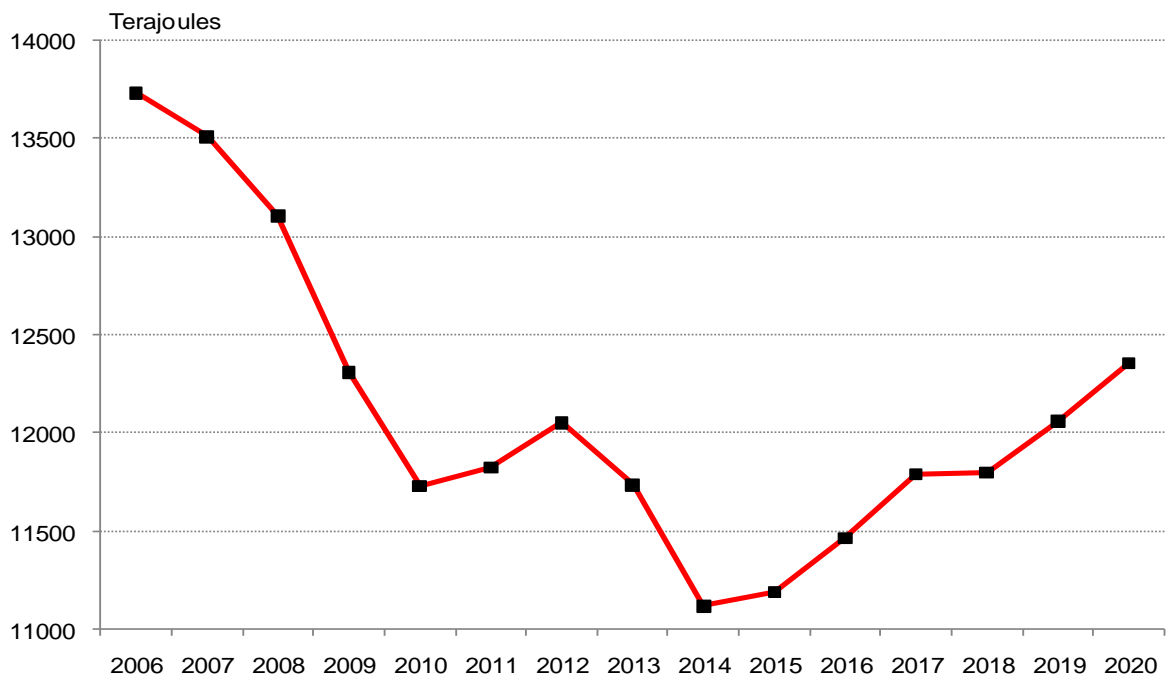
**Figure 6.6: Natural gas sales by class – industrial Tariff V
Envestra (TJ) – base scenario**



**Figure 6.7: Natural gas sales by class – commercial Tariff D
Envestra (TJ) – base scenario**

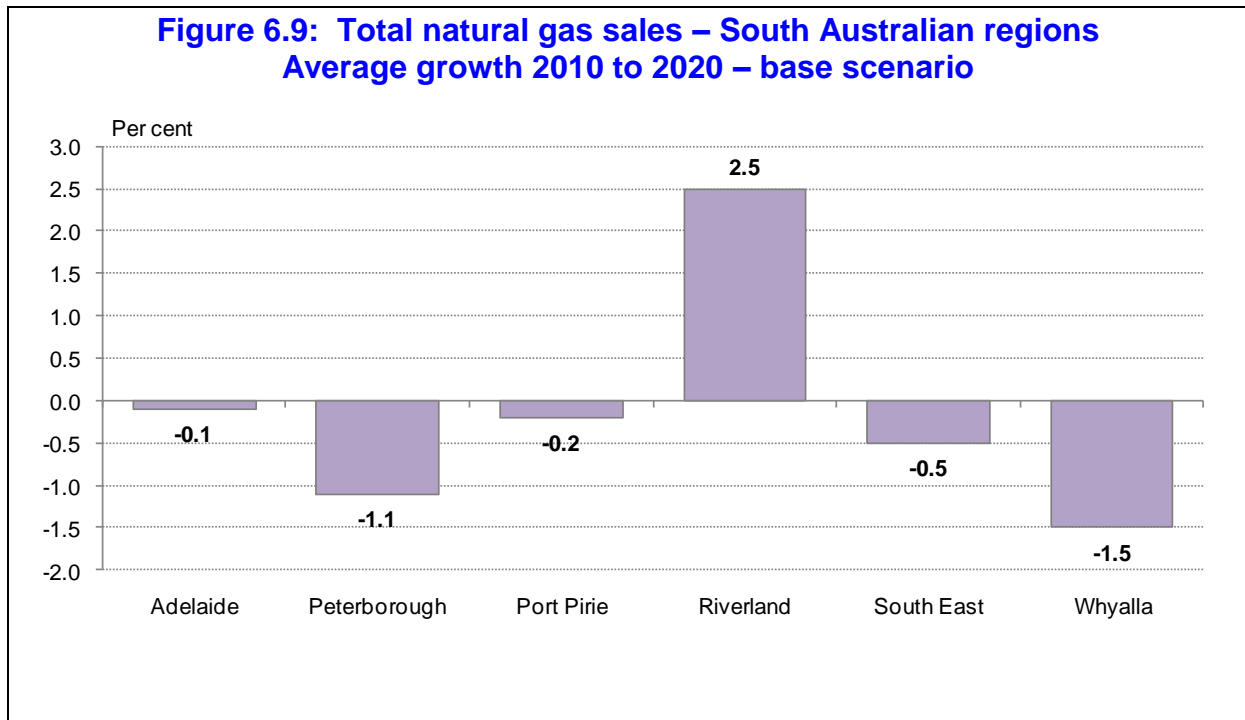


**Figure 6.8: Natural gas sales by class – industrial Tariff D
Envestra (TJ) – base scenario**



6.3 Sales and customer numbers by region

Appendix B presents natural gas sales by class, tariff and region, both on an actual and weather normalised basis. Customer number forecasts are also included in this Appendix. Figures 6.8 and 6.9 present the outlook for sales growth and customer growth by region over the 2010 to 2020 period.



**Figure 6.10: Total Tariff V customers – South Australian regions
Average growth 2010 to 2020 – base scenario**

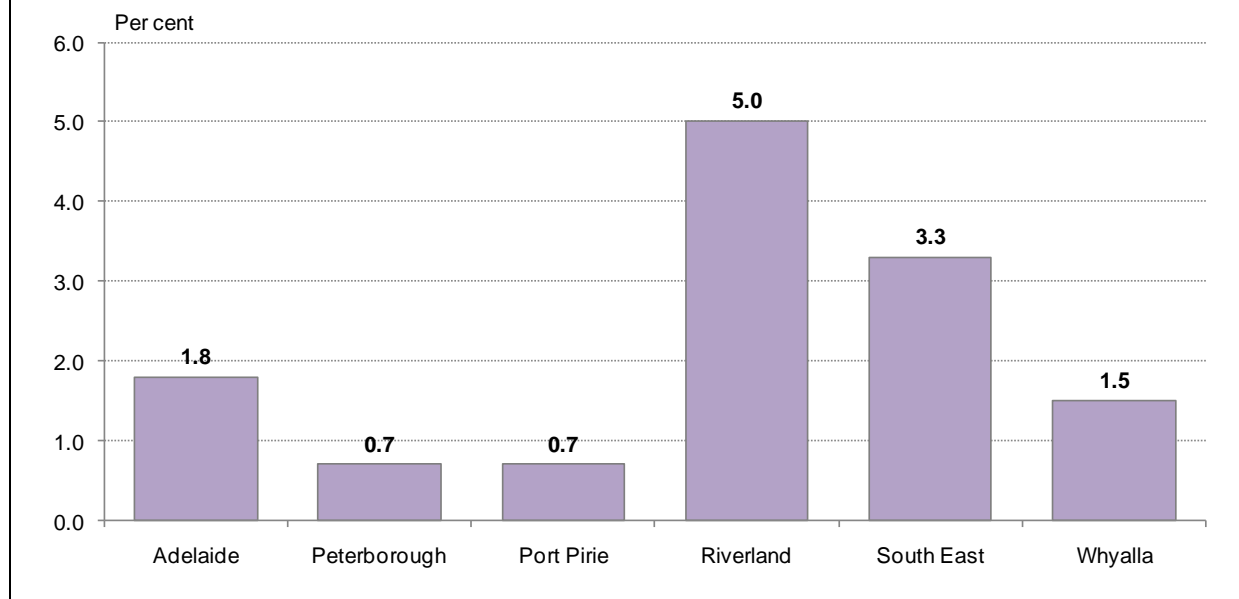


TABLE 6.1 ENVESTRA SA - GAS CONSUMPTION BY MARKET SECTOR - TOTAL SA

UNIT	RESI-	COMMERCIAL		INDUSTRIAL		TOTAL	TARIFF	TARIFF
	DENTIAL	TARIFF	TARIFF	TARIFF	TARIFF	GTS	V	D
		V	D	V	D			
	***** TERAJOULES *****							
2006	7875.41	1048.65	1715.66	1890.03	13732.05	26261.80	10814.09	15447.71
2007	7682.20	1030.49	1667.04	1858.58	13508.36	25746.67	10571.27	15175.40
2008	7425.01	1071.08	1643.76	1929.87	13106.49	25176.21	10425.96	14750.25
2009	7777.43	1086.97	1581.74	1959.60	12308.46	24714.20	10824.00	13890.20
2010	7543.67	1102.60	1591.30	1874.71	11728.58	23840.84	10520.97	13319.87
2011	7426.64	1126.57	1610.98	1885.57	11824.36	23874.13	10438.78	13435.35
2012	7299.73	1152.23	1604.94	1919.05	12052.81	24028.76	10371.01	13657.75
2013	7167.80	1181.42	1593.03	1933.74	11736.07	23612.06	10282.95	13329.10
2014	7041.38	1172.45	1549.70	1887.94	11117.81	22769.28	10101.77	12667.51
2015	6920.09	1175.80	1521.10	1905.92	11190.27	22713.18	10001.81	12711.36
2016	6826.19	1193.12	1510.13	1945.16	11464.52	22939.10	9964.46	12974.64
2017	6729.59	1214.99	1505.58	1993.27	11789.77	23233.20	9937.85	13295.35
2018	6636.13	1239.88	1504.40	2046.43	11797.70	23224.53	9922.44	13302.09
2019	6535.08	1261.77	1500.12	2096.54	12057.24	23450.73	9893.38	13557.35
2020	6440.71	1287.19	1498.98	2151.17	12354.21	23732.26	9879.06	13853.20
PERCENTAGE CHANGES								
2007	-2.45	-1.73	-2.83	-1.66	-1.63	-1.96	-2.25	-1.76
2008	-3.35	3.94	-1.40	3.84	-2.97	-2.22	-1.37	-2.80
2009	4.75	1.48	-3.77	1.54	-6.09	-1.84	3.82	-5.83
2010	-3.01	1.44	0.60	-4.33	-4.71	-3.53	-2.80	-4.11
2011	-1.55	2.17	1.24	0.58	0.82	0.14	-0.78	0.87
2012	-1.71	2.28	-0.38	1.78	1.93	0.65	-0.65	1.66
2013	-1.81	2.53	-0.74	0.77	-2.63	-1.73	-0.85	-2.41
2014	-1.76	-0.76	-2.72	-2.37	-5.27	-3.57	-1.76	-4.96
2015	-1.72	0.29	-1.85	0.95	0.65	-0.25	-0.99	0.35
2016	-1.36	1.47	-0.72	2.06	2.45	0.99	-0.37	2.07
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	-0.42	1.20	-2.67	1.21	-3.58	-2.00	0.03	-3.48
2011-2016	-1.67	1.15	-1.28	0.62	-0.62	-0.80	-0.93	-0.70
2010-2020	-1.57	1.56	-0.60	1.39	0.52	-0.05	-0.63	0.39

All data are for the financial year ending in June of the year specified.

TABLE 6.2 ENVESTRA SA - GAS CUSTOMERS BY MARKET SECTOR - TOTAL SA

UNIT	RESI-DENTIAL	COMMERCIAL		INDUSTRIAL		TOTAL GTS	TARIFF V	TARIFF D
		TARIFF V	TARIFF D	TARIFF V	TARIFF D			
	*****	*****		*****		*****	*****	*****
	NUMBER							
2006	358055.00	8245.94	54.00	1030.06	123.00	367443.00	367331.00	177.00
2007	364805.00	8385.38	53.00	1048.62	121.00	374349.00	374239.00	174.00
2008	371503.00	8535.88	54.00	1067.12	119.00	381214.00	381106.00	173.00
2009	378249.00	8686.07	55.00	1085.94	116.00	388126.00	388021.00	171.00
2010	385815.81	8760.55	55.21	1051.29	113.51	395729.81	395627.66	168.72
2011	393154.88	8873.92	55.57	1055.71	113.89	403186.72	403084.50	169.46
2012	400964.34	8994.19	55.46	1069.36	114.80	411130.84	411027.91	170.26
2013	407565.41	9129.46	55.32	1075.32	114.00	417872.22	417770.19	169.32
2014	414498.25	9087.63	54.31	1056.62	111.86	424742.38	424642.50	166.16
2015	421789.84	9102.60	53.64	1063.98	112.08	432056.44	431956.44	165.73
2016	429705.28	9182.07	53.34	1079.95	113.12	440068.19	439967.28	166.47
2017	438596.28	9282.01	53.17	1099.40	114.44	449079.78	448977.69	167.61
2018	447411.88	9394.92	53.07	1120.75	115.44	458030.47	457927.53	168.50
2019	456016.66	9493.38	52.90	1140.73	116.71	466754.84	466650.75	169.61
2020	464878.53	9606.86	52.79	1162.37	118.12	475753.09	475647.75	170.91
PERCENTAGE CHANGES								
2007	1.89	1.69	-1.85	1.80	-1.63	1.88	1.88	-1.69
2008	1.84	1.79	1.89	1.76	-1.65	1.83	1.83	-0.57
2009	1.82	1.76	1.85	1.76	-2.52	1.81	1.81	-1.16
2010	2.00	0.86	0.38	-3.19	-2.14	1.96	1.96	-1.33
2011	1.90	1.29	0.66	0.42	0.33	1.88	1.88	0.44
2012	1.99	1.36	-0.20	1.29	0.80	1.97	1.97	0.47
2013	1.65	1.50	-0.26	0.56	-0.69	1.64	1.64	-0.55
2014	1.70	-0.46	-1.83	-1.74	-1.88	1.64	1.64	-1.86
2015	1.76	0.16	-1.22	0.70	0.21	1.72	1.72	-0.26
2016	1.88	0.87	-0.56	1.50	0.93	1.85	1.85	0.45
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	1.85	1.75	0.61	1.78	-1.93	1.84	1.84	-1.14
2011-2016	1.79	0.69	-0.82	0.45	-0.13	1.77	1.77	-0.36
2010-2020	1.88	0.93	-0.45	1.01	0.40	1.86	1.86	0.13

All data are for the financial year ending in June of the year specified.

TABLE 6.3 ENVESTRA SA - WEATHER NORMALISED GAS CONSUMPTION BY MARKET SECTOR - TOTAL SA

UNIT	RESI-	COMMERCIAL		INDUSTRIAL		TOTAL	TARIFF	TARIFF
	DENTIAL					GTS	V	D
		TARIFF	TARIFF	TARIFF	TARIFF			
		V	D	V	D			
	***** TERAJOULES *****							
2006	7682.08	1023.32	1687.45	1890.03	13732.05	26014.93	10595.43	15447.71
2007	7934.81	1063.53	1693.21	1858.58	13508.36	26058.49	10856.93	15175.40
2008	7728.79	1110.73	1676.74	1929.87	13106.49	25552.63	10769.39	14750.25
2009	7749.29	1083.29	1575.17	1959.60	12308.46	24675.82	10792.19	13890.20
2010	7543.67	1102.60	1588.08	1874.71	11728.58	23837.63	10520.97	13319.87
2011	7426.64	1126.57	1607.70	1885.57	11824.36	23870.85	10438.78	13435.35
2012	7299.73	1152.23	1601.59	1919.05	12052.81	24025.41	10371.01	13657.75
2013	7167.80	1181.42	1589.61	1933.74	11736.07	23608.64	10282.95	13329.10
2014	7041.38	1172.45	1546.33	1887.94	11117.81	22765.92	10101.77	12667.51
2015	6920.09	1175.80	1517.77	1905.92	11190.27	22709.85	10001.81	12711.36
2016	6826.19	1193.12	1506.80	1945.16	11464.52	22935.78	9964.46	12974.64
2017	6729.59	1214.99	1502.25	1993.27	11789.77	23229.87	9937.85	13295.35
2018	6636.13	1239.88	1501.05	2046.43	11797.70	23221.18	9922.44	13302.09
2019	6535.08	1261.77	1496.76	2096.54	12057.24	23447.38	9893.38	13557.35
2020	6440.71	1287.19	1495.61	2151.17	12354.21	23728.88	9879.06	13853.20
PERCENTAGE CHANGES								
2007	3.29	3.93	0.34	-1.66	-1.63	0.17	2.47	-1.76
2008	-2.60	4.44	-0.97	3.84	-2.97	-1.94	-0.81	-2.80
2009	0.27	-2.47	-6.06	1.54	-6.09	-3.43	0.21	-5.83
2010	-2.65	1.78	0.82	-4.33	-4.71	-3.40	-2.51	-4.11
2011	-1.55	2.17	1.24	0.58	0.82	0.14	-0.78	0.87
2012	-1.71	2.28	-0.38	1.78	1.93	0.65	-0.65	1.66
2013	-1.81	2.53	-0.75	0.77	-2.63	-1.73	-0.85	-2.41
2014	-1.76	-0.76	-2.72	-2.37	-5.27	-3.57	-1.76	-4.96
2015	-1.72	0.29	-1.85	0.95	0.65	-0.25	-0.99	0.35
2016	-1.36	1.47	-0.72	2.06	2.45	0.99	-0.37	2.07
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	0.29	1.92	-2.27	1.21	-3.58	-1.75	0.62	-3.48
2011-2016	-1.67	1.15	-1.29	0.62	-0.62	-0.80	-0.93	-0.70
2010-2020	-1.57	1.56	-0.60	1.39	0.52	-0.05	-0.63	0.39

All data are for the financial year ending in June of the year specified.

TABLE 6.4 ENVESTRA SA - RESIDENTIAL GAS CONSUMPTION CUSTOMERS AND VOLUMES - ADELAIDE

UNIT	OLD CUSTOMERS			NEW CUSTOMERS				TOTAL RESIDENTIAL GAS USAGE		
	CUSTOMERS	AVERAGE USAGE	TOTAL GAS USE	CUSTOMERS	AVERAGE USAGE	TOTAL ANNUAL USE	CUMULATIVE GAS USE NEW CUTOMERS	CUSTOMERS	AVERAGE USAGE	TOTAL GAS USE
	NUMBER	GJ	TJ	NUMBER	GJ	TJ	TJ	NUMBER	GJ	TJ
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	343429.00	0.00	0.00
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	349793.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	356001.00	0.00	0.00
2009	362281.00	20.14	0.00	0.00	15.60	0.00	0.00	362281.00	0.00	0.00
2010	362281.00	19.64	7115.89	7136.75	15.04	107.35	107.35	369417.75	19.55	7223.24
2011	362281.00	19.06	6905.57	6933.26	14.43	100.06	207.41	376351.00	18.90	7112.98
2012	362281.00	18.45	6683.65	7392.56	13.81	102.09	309.49	383743.56	18.22	6993.14
2013	362281.00	17.88	6476.30	6229.14	13.23	82.41	391.90	389972.72	17.61	6868.20
2014	362281.00	17.32	6273.47	6567.56	12.67	83.21	475.11	396540.25	17.02	6748.58
2015	362281.00	16.77	6074.75	6905.81	12.13	83.76	558.87	403446.09	16.44	6633.61
2016	362281.00	16.28	5898.51	7497.27	11.64	87.30	646.16	410943.34	15.93	6544.67
2017	362281.00	15.77	5712.78	8424.64	11.15	93.93	740.09	419368.00	15.39	6452.87
2018	362281.00	15.28	5534.65	8346.35	10.68	89.13	829.22	427714.34	14.88	6363.87
2019	362281.00	14.78	5355.01	8138.45	10.22	83.14	912.36	435852.78	14.38	6267.37
2020	362281.00	14.31	5182.83	8377.68	9.77	81.89	994.24	444230.47	13.91	6177.07
PERCENTAGE CHANGES										
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	0.00	0.00
2010	0.00	-2.47	0.00	0.00	-3.58	0.00	0.00	1.97	0.00	0.00
2011	0.00	-2.96	-2.96	-2.85	-4.06	-6.79	93.21	1.88	-3.34	-1.53
2012	0.00	-3.21	-3.21	6.62	-4.31	2.03	49.22	1.96	-3.58	-1.68
2013	0.00	-3.10	-3.10	-15.74	-4.20	-19.28	26.63	1.62	-3.36	-1.79
2014	0.00	-3.13	-3.13	5.43	-4.23	0.97	21.23	1.68	-3.37	-1.74
2015	0.00	-3.17	-3.17	5.15	-4.27	0.66	17.63	1.74	-3.39	-1.70
2016	0.00	-2.90	-2.90	8.56	-4.00	4.22	15.62	1.86	-3.14	-1.34
COMPOUND GROWTH RATE (PER CENT) -										
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00
2011-2016	0.00	-3.10	-3.10	1.58	-4.20	-2.69	25.52	1.77	-3.37	-1.65
2010-2020	0.00	-3.12	-3.12	1.62	-4.22	-2.67	24.93	1.86	-3.35	-1.55

All data are for the financial year ending in June of the year specified.

TABLE 6.5 ENVESTRA SA - RESIDENTIAL GAS CONSUMPTION CUSTOMERS AND VOLUMES - SA TOTAL

UNIT	OLD CUSTOMERS			NEW CUSTOMERS				TOTAL RESIDENTIAL GAS USAGE		
	CUSTOMERS	AVERAGE USAGE	TOTAL GAS USE	CUSTOMERS	AVERAGE USAGE	TOTAL ANNUAL USE	CUMULATIVE GAS USE NEW CUTOMERS	CUSTOMERS	AVERAGE USAGE	TOTAL GAS USE
	NUMBER	GJ	TJ	NUMBER	GJ	TJ	TJ	NUMBER	GJ	TJ
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	358055.00	0.00	0.00
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	364805.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	371503.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	378249.00	0.00	0.00
2010	378249.00	19.64	7429.40	7566.81	15.10	114.26	114.26	385815.81	19.55	7543.67
2011	378249.00	19.05	7206.03	7339.06	14.49	106.35	220.61	393154.88	18.89	7426.64
2012	378249.00	18.43	6970.84	7809.49	13.86	108.28	328.89	400964.34	18.21	7299.73
2013	378249.00	17.85	6751.13	6601.05	13.30	87.78	416.67	407565.41	17.59	7167.80
2014	378249.00	17.28	6536.40	6932.84	12.74	88.31	504.98	414498.25	16.99	7041.38
2015	378249.00	16.72	6326.19	7291.60	12.19	88.92	593.90	421789.84	16.41	6920.09
2016	378249.00	16.23	6139.65	7915.42	11.70	92.64	686.54	429705.28	15.89	6826.19
2017	378249.00	15.71	5943.46	8891.01	11.20	99.59	786.13	438596.28	15.34	6729.59
2018	378249.00	15.22	5755.38	8815.60	10.73	94.61	880.74	447411.88	14.83	6636.13
2019	378249.00	14.72	5565.96	8604.78	10.27	88.37	969.12	456016.66	14.33	6535.08
2020	378249.00	14.24	5384.50	8861.87	9.83	87.10	1056.21	464878.53	13.85	6440.71
PERCENTAGE CHANGES										
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.84	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00
2011	0.00	-3.01	-3.01	-3.01	-4.04	-6.93	93.07	1.90	-3.39	-1.55
2012	0.00	-3.26	-3.26	6.41	-4.32	1.82	49.08	1.99	-3.62	-1.71
2013	0.00	-3.15	-3.15	-15.47	-4.09	-18.93	26.69	1.65	-3.40	-1.81
2014	0.00	-3.18	-3.18	5.03	-4.21	0.61	21.20	1.70	-3.41	-1.76
2015	0.00	-3.22	-3.22	5.17	-4.27	0.68	17.61	1.76	-3.42	-1.72
2016	0.00	-2.95	-2.95	8.56	-4.03	4.18	15.60	1.88	-3.17	-1.36
COMPOUND GROWTH RATE (PER CENT) -										
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00
2011-2016	0.00	-3.15	-3.15	1.52	-4.18	-2.72	25.49	1.79	-3.40	-1.67
2010-2020	0.00	-3.17	-3.17	1.59	-4.20	-2.68	24.91	1.88	-3.39	-1.57

All data are for the financial year ending in June of the year specified.

TABLE 6.6 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY INDUSTRY SECTOR - TOTAL SA

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	445.34	0.00	13732.05	0.01	0.00	10.62	318.19	13.37	958.37	415.10	15888.51
2007	379.53	0.00	13508.36	0.00	0.00	4.57	324.27	12.91	917.54	407.75	15550.22
2008	328.95	0.00	13106.49	0.00	0.00	5.10	317.82	20.13	892.88	407.83	15075.13
2009	410.62	0.00	12308.46	0.01	0.00	6.31	298.62	17.70	864.56	394.54	14297.68
2010	428.97	0.00	11728.58	0.01	0.00	6.43	302.04	17.48	861.57	403.76	13745.63
2011	445.36	0.00	11824.36	0.01	0.00	6.59	310.07	17.37	864.71	412.24	13877.42
2012	454.78	0.00	12052.81	0.01	0.00	6.75	314.77	19.05	844.63	419.73	14109.18
2013	460.37	0.00	11736.07	0.01	0.00	6.94	310.83	20.78	827.63	426.84	13786.05
2014	457.38	0.00	11117.81	0.01	0.00	6.89	316.05	21.04	786.47	419.23	13121.52
2015	461.31	0.00	11190.27	0.01	0.00	6.93	317.62	21.11	762.59	412.83	13169.35
2016	467.55	0.00	11464.52	0.01	0.00	7.04	322.98	21.44	747.24	411.41	13438.87
2017	473.57	0.00	11789.77	0.01	0.00	7.19	329.59	21.84	735.59	411.36	13765.58
2018	479.69	0.00	11797.70	0.01	0.00	7.35	337.03	22.31	725.52	412.18	13778.43
2019	485.53	0.00	12057.24	0.01	0.00	7.49	343.67	22.71	714.47	411.77	14039.52
2020	491.76	0.00	12354.21	0.01	0.00	7.65	351.30	23.18	704.41	412.43	14341.59
PERCENTAGE CHANGES											
2007	-14.78	0.00	-1.63	-100.00	0.00	-56.97	1.91	-3.44	-4.26	-1.77	-2.13
2008	-13.33	0.00	-2.97	0.00	0.00	11.60	-1.99	55.93	-2.69	0.02	-3.06
2009	24.83	0.00	-6.09	0.00	0.00	23.73	-6.04	-12.07	-3.17	-3.26	-5.16
2010	4.47	0.00	-4.71	0.00	0.00	1.97	1.15	-1.22	-0.35	2.34	-3.86
2011	3.82	0.00	0.82	0.00	0.00	2.38	2.66	-0.68	0.36	2.10	0.96
2012	2.12	0.00	1.93	0.00	0.00	2.48	1.52	9.69	-2.32	1.81	1.67
2013	1.23	0.00	-2.63	0.00	0.00	2.76	-1.25	9.09	-2.01	1.69	-2.29
2014	-0.65	0.00	-5.27	0.00	0.00	-0.62	1.68	1.24	-4.97	-1.78	-4.82
2015	0.86	0.00	0.65	0.00	0.00	0.48	0.50	0.36	-3.04	-1.53	0.36
2016	1.35	0.00	2.45	0.00	0.00	1.67	1.69	1.54	-2.01	-0.34	2.05
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	-2.67	0.00	-3.58	0.00	0.00	-15.93	-2.09	9.80	-3.38	-1.68	-3.46
2011-2016	0.98	0.00	-0.62	0.00	0.00	1.35	0.82	4.30	-2.88	-0.04	-0.64
2010-2020	1.38	0.00	0.52	0.00	0.00	1.75	1.52	2.86	-1.99	0.21	0.43

All data are for the financial year ending in June of the year specified.

TABLE 6.7 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY MANUFACTURING SECTOR - TOTAL SA

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PAPER ASIC 25	PAPER, PRINTING + PUBLISHING ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL-ANEOUS MANUFA-CTURING ASIC 34	TOTAL MANUFA-CTURING DIV C
UNIT	***** TERAJOULES *****											
2006	1869.53	0.00	216.45	96.63	48.69	7802.44	1019.25	465.50	1187.35	544.44	481.77	13732.05
2007	1920.78	0.00	209.45	92.10	71.29	7791.44	901.20	339.76	1190.39	518.36	473.59	13508.36
2008	2024.54	0.00	220.85	96.38	69.94	7363.33	989.95	317.18	1030.63	495.40	498.29	13106.49
2009	2049.54	0.00	205.37	103.06	67.74	7173.18	941.91	278.10	596.64	420.84	472.08	12308.46
2010	1990.47	0.00	192.80	99.10	64.26	6818.66	915.31	253.55	555.99	388.65	449.79	11728.58
2011	2033.83	0.00	188.71	99.40	64.00	6924.73	913.15	240.65	537.41	374.63	447.86	11824.36
2012	2103.21	0.00	186.97	100.32	64.50	7111.56	917.05	230.52	524.81	363.15	450.73	12052.81
2013	2098.67	0.00	184.12	99.80	64.43	6850.84	914.27	218.71	509.08	346.65	449.50	11736.07
2014	2081.19	0.00	176.49	96.24	62.41	6371.25	891.29	201.73	481.36	320.49	435.36	11117.81
2015	2135.19	0.00	173.21	96.14	62.45	6442.51	882.72	191.64	464.56	306.82	435.03	11190.27
2016	2214.67	0.00	171.61	97.27	63.15	6661.38	882.79	184.07	452.62	297.48	439.47	11464.52
2017	2306.38	0.00	170.93	98.69	64.14	6906.36	887.46	177.50	443.37	289.17	445.77	11789.77
2018	2406.41	0.00	170.56	100.36	65.26	6820.09	893.75	171.49	435.07	281.69	453.02	11797.70
2019	2505.37	0.00	170.07	101.68	66.27	6989.78	899.32	165.32	426.64	273.36	459.41	12057.24
2020	2612.47	0.00	169.60	103.36	67.39	7185.30	905.25	159.64	418.43	266.14	466.62	12354.21
PERCENTAGE CHANGES												
2007	2.74	0.00	-3.23	-4.69	46.42	-0.14	-11.58	-27.01	0.26	-4.79	-1.70	-1.63
2008	5.40	0.00	5.44	4.65	-1.89	-5.49	9.85	-6.65	-13.42	-4.43	5.22	-2.97
2009	1.23	0.00	-7.01	6.93	-3.15	-2.58	-4.85	-12.32	-42.11	-15.05	-5.26	-6.09
2010	-2.88	0.00	-6.12	-3.85	-5.13	-4.94	-2.82	-8.83	-6.81	-7.65	-4.72	-4.71
2011	2.18	0.00	-2.12	0.30	-0.42	1.56	-0.24	-5.09	-3.34	-3.61	-0.43	0.82
2012	3.41	0.00	-0.92	0.93	0.79	2.70	0.43	-4.21	-2.35	-3.06	0.64	1.93
2013	-0.22	0.00	-1.53	-0.52	-0.12	-3.67	-0.30	-5.12	-3.00	-4.54	-0.27	-2.63
2014	-0.83	0.00	-4.14	-3.57	-3.13	-7.00	-2.51	-7.76	-5.45	-7.55	-3.15	-5.27
2015	2.59	0.00	-1.86	-0.10	0.06	1.12	-0.96	-5.00	-3.49	-4.26	-0.08	0.65
2016	3.72	0.00	-0.93	1.18	1.13	3.40	0.01	-3.95	-2.57	-3.05	1.02	2.45
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	3.11	0.00	-1.74	2.17	11.64	-2.76	-2.60	-15.78	-20.50	-8.23	-0.67	-3.58
2011-2016	1.72	0.00	-1.88	-0.43	-0.27	-0.77	-0.67	-5.22	-3.38	-4.51	-0.38	-0.62
2010-2020	2.76	0.00	-1.27	0.42	0.48	0.53	-0.11	-4.52	-2.80	-3.72	0.37	0.52

All data are for the financial year ending in June of the year specified.

TABLE 6.8 ENVESTRA - TARIFF D BLOCK GAS CUSTOMERS BY INDUSTRY SECTOR - TOTAL SA

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** NUMBER *****										
2006	6.00	0.00	93.00	1.00	0.00	1.00	4.00	1.00	30.00	17.00	152.00
2007	6.00	0.00	93.00	0.00	0.00	1.00	4.00	1.00	30.00	17.00	151.00
2008	6.00	0.00	91.00	1.00	0.00	1.00	4.00	1.00	30.00	17.00	150.00
2009	6.00	0.00	88.00	1.00	0.00	1.00	5.00	1.00	30.00	17.00	148.00
2010	6.16	0.00	85.34	1.00	0.00	1.01	5.03	0.99	29.93	17.24	145.69
2011	6.30	0.00	85.25	1.00	0.00	1.03	5.11	0.99	29.99	17.45	146.09
2012	6.38	0.00	85.73	1.00	0.00	1.04	5.16	1.05	29.57	17.64	146.53
2013	6.43	0.00	84.81	1.00	0.00	1.06	5.12	1.10	29.21	17.82	145.50
2014	6.42	0.00	82.78	1.00	0.00	1.05	5.17	1.11	28.33	17.64	142.46
2015	6.45	0.00	82.79	1.00	0.00	1.06	5.19	1.11	27.81	17.48	141.86
2016	6.51	0.00	83.47	1.00	0.00	1.07	5.24	1.12	27.47	17.44	142.29
2017	6.57	0.00	84.37	1.00	0.00	1.08	5.30	1.13	27.21	17.44	143.07
2018	6.62	0.00	84.92	1.00	0.00	1.10	5.38	1.15	26.98	17.46	143.57
2019	6.68	0.00	85.76	1.00	0.00	1.11	5.44	1.16	26.73	17.46	144.29
2020	6.74	0.00	86.71	1.00	0.00	1.12	5.51	1.18	26.50	17.47	145.19
PERCENTAGE CHANGES											
2007	0.00	0.00	0.00	-100.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.66
2008	0.00	0.00	-2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.66
2009	0.00	0.00	-3.30	0.00	0.00	0.00	25.00	0.00	0.00	0.00	-1.33
2010	2.62	0.00	-3.03	0.00	0.00	1.18	0.69	-0.73	-0.23	1.39	-1.56
2011	2.27	0.00	-0.11	0.00	0.00	1.42	1.59	-0.41	0.19	1.26	0.27
2012	1.32	0.00	0.57	0.00	0.00	1.48	0.91	5.71	-1.40	1.09	0.30
2013	0.82	0.00	-1.08	0.00	0.00	1.65	-0.75	5.36	-1.22	1.02	-0.70
2014	-0.25	0.00	-2.39	0.00	0.00	-0.37	1.00	0.74	-3.00	-1.06	-2.09
2015	0.60	0.00	0.02	0.00	0.00	0.29	0.30	0.21	-1.84	-0.91	-0.42
2016	0.89	0.00	0.82	0.00	0.00	1.00	1.01	0.92	-1.23	-0.20	0.30
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	0.00	0.00	-1.83	0.00	0.00	0.00	7.72	0.00	0.00	0.00	-0.89
2011-2016	0.68	0.00	-0.42	0.00	0.00	0.81	0.49	2.56	-1.74	-0.02	-0.53
2010-2020	0.90	0.00	0.16	0.00	0.00	1.05	0.91	1.71	-1.21	0.14	-0.03

All data are for the financial year ending in June of the year specified.

TABLE 6.9 ENVESTRA - TARIFF D BLOCK GAS CUSTOMERS BY MANUFACTURING SECTOR - TOTAL SA

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND ASIC 25	PAPER, PAPER PRODUCTS PRINTING + PUBLISHING ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL- -ANEOUS MANUFA- CTURING ASIC 34	TOTAL MANUFA- CTURING DIV C
UNIT	***** NUMBER *****											
2006	29.00	0.00	7.00	4.00	4.00	13.00	3.00	9.00	9.00	6.00	9.00	93.00
2007	28.00	0.00	7.00	3.00	4.00	15.00	4.00	8.00	9.00	6.00	9.00	93.00
2008	27.00	0.00	7.00	3.00	4.00	16.00	4.00	8.00	9.00	4.00	9.00	91.00
2009	27.00	0.00	7.00	3.00	4.00	16.00	3.00	7.00	8.00	4.00	9.00	88.00
2010	26.56	0.00	6.74	2.93	3.88	15.52	2.87	6.62	7.67	3.81	8.74	85.34
2011	26.91	0.00	6.66	2.94	3.87	15.66	2.83	6.42	7.51	3.73	8.72	85.25
2012	27.47	0.00	6.62	2.95	3.88	15.92	2.81	6.25	7.41	3.66	8.75	85.73
2013	27.44	0.00	6.56	2.95	3.88	15.56	2.78	6.06	7.27	3.56	8.74	84.81
2014	27.32	0.00	6.40	2.88	3.81	14.90	2.69	5.77	7.03	3.40	8.57	82.78
2015	27.75	0.00	6.32	2.88	3.81	15.00	2.66	5.60	6.88	3.31	8.57	82.79
2016	28.37	0.00	6.29	2.90	3.84	15.30	2.65	5.46	6.78	3.25	8.62	83.47
2017	29.07	0.00	6.27	2.93	3.87	15.64	2.65	5.35	6.69	3.19	8.70	84.37
2018	29.83	0.00	6.26	2.96	3.91	15.52	2.65	5.24	6.62	3.14	8.78	84.92
2019	30.57	0.00	6.25	2.98	3.95	15.75	2.64	5.12	6.54	3.09	8.85	85.76
2020	31.35	0.00	6.24	3.01	3.99	16.02	2.64	5.02	6.47	3.04	8.94	86.71
PERCENTAGE CHANGES												
2007	-3.45	0.00	0.00	-25.00	0.00	15.38	33.33	-11.11	0.00	0.00	0.00	0.00
2008	-3.57	0.00	0.00	0.00	0.00	6.67	0.00	0.00	0.00	-33.33	0.00	-2.15
2009	0.00	0.00	0.00	0.00	0.00	0.00	-25.00	-12.50	-11.11	0.00	0.00	-3.30
2010	-1.65	0.00	-3.68	-2.29	-3.11	-3.00	-4.47	-5.39	-4.15	-4.66	-2.86	-3.03
2011	1.35	0.00	-1.27	0.22	-0.25	0.93	-1.37	-3.08	-2.02	-2.18	-0.26	-0.11
2012	2.07	0.00	-0.55	0.58	0.47	1.61	-0.59	-2.55	-1.41	-1.85	0.38	0.57
2013	-0.09	0.00	-0.92	-0.28	-0.07	-2.22	-1.16	-3.11	-1.81	-2.75	-0.16	-1.08
2014	-0.44	0.00	-2.49	-2.14	-1.89	-4.26	-3.05	-4.73	-3.30	-4.60	-1.90	-2.39
2015	1.57	0.00	-1.13	-0.04	0.03	0.67	-1.04	-3.03	-2.11	-2.58	-0.05	0.02
2016	2.23	0.00	-0.56	0.72	0.68	2.03	-0.41	-2.39	-1.55	-1.84	0.61	0.82
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	-2.35	0.00	0.00	-9.14	0.00	7.17	0.00	-8.04	-3.85	-12.64	0.00	-1.83
2011-2016	1.06	0.00	-1.13	-0.24	-0.16	-0.46	-1.25	-3.17	-2.04	-2.73	-0.23	-0.42
2010-2020	1.67	0.00	-0.77	0.27	0.29	0.32	-0.81	-2.74	-1.69	-2.25	0.22	0.16

All data are for the financial year ending in June of the year specified.

TABLE 6.10 ENVESTRA - TARIFF D BLOCK MDQ BY INDUSTRY SECTOR - TOTAL SA

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF										
UNIT	*****										TJ	*****									
2006	2283.00	0.00	65658.00	72.00	0.00	76.00	1359.00	145.00	5159.00	17.00	76812.00										
2007	2325.00	0.00	65117.00	0.00	0.00	76.00	1359.00	145.00	5253.00	17.00	76430.00										
2008	3120.00	0.00	65556.00	72.00	0.00	76.00	1359.00	174.00	5285.00	17.00	78040.00										
2009	3294.00	0.00	59364.00	72.00	0.00	76.00	1564.00	174.00	4875.00	17.00	71824.00										
2010	3294.00	0.00	59364.00	72.00	0.00	76.00	1564.00	174.00	4875.00	17.24	71824.00										
2011	3360.81	0.00	59567.18	72.00	0.00	76.99	1586.73	173.35	4884.74	17.45	72154.45										
2012	3398.19	0.00	60194.54	72.00	0.00	78.03	1599.92	182.40	4822.03	17.64	72803.94										
2013	3419.65	0.00	59148.19	72.00	0.00	79.21	1588.88	191.34	4768.40	17.82	71747.28										
2014	3406.28	0.00	57089.60	72.00	0.00	78.94	1603.50	192.64	4636.49	17.64	69534.62										
2015	3420.83	0.00	57225.03	72.00	0.00	79.15	1607.88	193.02	4558.53	17.48	69590.88										
2016	3444.61	0.00	58002.05	72.00	0.00	79.87	1622.75	194.64	4507.81	17.44	70353.54										
2017	3467.26	0.00	58932.46	72.00	0.00	80.76	1640.91	196.67	4469.02	17.44	71288.68										
2018	3490.12	0.00	58884.89	72.00	0.00	81.75	1661.19	198.94	4435.25	17.46	71256.38										
2019	3511.68	0.00	59598.88	72.00	0.00	82.61	1679.10	200.93	4397.97	17.46	71974.02										
2020	3534.57	0.00	60416.59	72.00	0.00	83.61	1699.52	203.21	4363.77	17.47	72806.23										
PERCENTAGE CHANGES																					
2007	1.84	0.00	-0.82	-100.00	0.00	0.00	0.00	0.00	1.82	0.00	-0.50										
2008	34.19	0.00	0.67	0.00	0.00	0.00	0.00	20.00	0.61	0.00	2.11										
2009	5.58	0.00	-9.45	0.00	0.00	0.00	15.08	0.00	-7.76	0.00	-7.97										
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39	0.00										
2011	2.03	0.00	0.34	0.00	0.00	1.30	1.45	-0.37	0.20	1.26	0.46										
2012	1.11	0.00	1.05	0.00	0.00	1.36	0.83	5.22	-1.28	1.09	0.90										
2013	0.63	0.00	-1.74	0.00	0.00	1.51	-0.69	4.90	-1.11	1.02	-1.45										
2014	-0.39	0.00	-3.48	0.00	0.00	-0.34	0.92	0.68	-2.77	-1.06	-3.08										
2015	0.43	0.00	0.24	0.00	0.00	0.26	0.27	0.20	-1.68	-0.91	0.08										
2016	0.70	0.00	1.36	0.00	0.00	0.92	0.93	0.84	-1.11	-0.20	1.10										
COMPOUND GROWTH RATE (PER CENT) -																					
2006-2009	13.00	0.00	-3.30	0.00	0.00	0.00	4.79	6.27	-1.87	0.00	-2.21										
2011-2016	0.49	0.00	-0.53	0.00	0.00	0.74	0.45	2.34	-1.59	-0.02	-0.50										
2010-2020	0.71	0.00	0.18	0.00	0.00	0.96	0.83	1.56	-1.10	0.14	0.14										

All data are for the financial year ending in June of the year specified.

TABLE 6.11 ENVESTRA - TARIFF D BLOCK MDQ BY MANUFACTURING SECTOR - TOTAL SA

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND FURNITURE ASIC 25	PAPER, PAPER PRINTING + PUBLISHING ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL-ANEOUS MANUFA-CTURING ASIC 34	TOTAL MANUFA-CTURING DIV C
UNIT	***** TJ *****											
2006	10162.00	0.00	1029.00	764.00	833.00	34927.00	3555.00	2404.00	7141.00	2359.00	2484.00	65658.00
2007	10216.00	0.00	1029.00	735.00	833.00	35064.00	3676.00	1711.00	6959.00	2379.00	2515.00	65117.00
2008	11560.00	0.00	1086.00	743.00	906.00	35409.00	3641.00	1671.00	5910.00	2146.00	2484.00	65556.00
2009	10899.00	0.00	1103.00	743.00	803.00	30760.00	3586.00	1664.00	5277.00	2146.00	2383.00	59364.00
2010	10899.00	0.00	1103.00	743.00	803.00	30760.00	3586.00	1664.00	5277.00	2146.00	2383.00	59364.00
2011	11029.00	0.00	1090.05	742.96	800.72	31084.79	3576.81	1605.95	5156.46	2103.08	2377.38	59567.18
2012	11234.40	0.00	1084.51	746.03	805.02	31653.06	3584.84	1559.65	5073.91	2067.39	2385.74	60194.54
2013	11221.06	0.00	1075.38	741.80	804.38	30858.56	3574.77	1504.87	4970.04	2015.18	2382.16	59148.19
2014	11169.53	0.00	1050.63	722.11	787.16	29371.49	3509.21	1424.41	4784.35	1930.05	2340.65	57089.60
2015	11328.01	0.00	1039.86	720.02	787.47	29594.96	3484.99	1375.54	4670.16	1884.35	2339.67	57225.03
2016	11558.03	0.00	1034.57	724.17	793.52	30275.78	3484.09	1338.34	4588.23	1852.57	2352.77	58002.05
2017	11818.83	0.00	1032.34	729.69	801.91	31029.20	3495.37	1305.68	4524.25	1823.93	2371.26	58932.46
2018	12098.05	0.00	1031.10	736.36	811.41	30764.85	3510.96	1275.48	4466.46	1797.83	2392.39	58884.89
2019	12369.17	0.00	1029.50	741.24	819.95	31283.74	3524.42	1244.09	4407.47	1768.39	2410.91	59598.88
2020	12657.22	0.00	1027.95	747.86	829.33	31876.65	3538.95	1214.85	4349.59	1742.57	2431.63	60416.59
PERCENTAGE CHANGES												
2007	0.53	0.00	0.00	-3.80	0.00	0.39	3.40	-28.83	-2.55	0.85	1.25	-0.82
2008	13.16	0.00	5.54	1.09	8.76	0.98	-0.95	-2.34	-15.07	-9.79	-1.23	0.67
2009	-5.72	0.00	1.57	0.00	-11.37	-13.13	-1.51	-0.42	-10.71	0.00	-4.07	-9.45
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	1.19	0.00	-1.17	-0.01	-0.28	1.06	-0.26	-3.49	-2.28	-2.00	-0.24	0.34
2012	1.86	0.00	-0.51	0.41	0.54	1.83	0.22	-2.88	-1.60	-1.70	0.35	1.05
2013	-0.12	0.00	-0.84	-0.57	-0.08	-2.51	-0.28	-3.51	-2.05	-2.53	-0.15	-1.74
2014	-0.46	0.00	-2.30	-2.65	-2.14	-4.82	-1.83	-5.35	-3.74	-4.22	-1.74	-3.48
2015	1.42	0.00	-1.02	-0.29	0.04	0.76	-0.69	-3.43	-2.39	-2.37	-0.04	0.24
2016	2.03	0.00	-0.51	0.58	0.77	2.30	-0.03	-2.70	-1.75	-1.69	0.56	1.36
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	2.36	0.00	2.34	-0.92	-1.22	-4.15	0.29	-11.54	-9.59	-3.11	-1.37	-3.30
2011-2016	0.94	0.00	-1.04	-0.51	-0.18	-0.53	-0.52	-3.58	-2.31	-2.50	-0.21	-0.53
2010-2020	1.51	0.00	-0.70	0.07	0.32	0.36	-0.13	-3.10	-1.91	-2.06	0.20	0.18

All data are for the financial year ending in June of the year specified.

7. Natural gas demand forecasts to 2020 –price adjusted – Envestra SA

This section presents total natural gas demand forecasts for Envestra South Australia, incorporating the proposed distribution price increases by Envestra over the 2012 to 2016 period.

7.1 Proposed distribution price increases, Envestra SA

The proposed distribution price increases modelled are presented in Table 7.1 below for the period 2011-12 to 2015-16.

Table 7.1 Proposed distribution price increases, Envestra SA – \$2010 total retail price increase (percentage)		
	Residential	Business
2011-12	10.1	4.0
2012-13	9.0	3.5
2013-14	7.4	2.9
2014-15	1.1	0.4
2015-16	0.5	0.2

7.2 The impact on volumes by class, Envestra SA

Table 7.2 presents the total volumes by class for Envestra SA. As indicated in Table 7.1, the proposed real price increases are quite significant and through the price elasticities in NIEIR's sectoral model of gas usage, reduce forecast volumes.

By 2015-16 residential volumes for total South Australia are some 670 terajoules, or 9.8 per cent, lower than the forecasts presented in Chapter 6 of this report. Tariff V business volumes are some 7.0 per cent lower by 2015-16.

Table 7.2 Total volumes by class incorporating the distribution price increases						
	Residential	Commercial Tariff V	Commercial Tariff D	Industrial Tariff V	Industrial Tariff D	Total
2005	7744.6	1038.8	1696.4	1872.3	14354.8	26706.8
2006	7875.4	1048.7	1715.7	1890.0	13732.1	26262.0
2007	7682.2	1030.5	1667.0	1858.6	13508.4	25746.6
2008	7425.1	1071.0	1643.8	1929.9	13106.5	25176.3
2009	7777.5	1087.0	1581.7	1959.6	12308.5	24714.2
2010	7543.6	1102.6	1591.3	1874.7	11728.6	23840.8
2011	7426.7	1126.6	1611.0	1885.6	11824.2	23874.0
2012	7213.9	1147.4	1604.9	1910.9	12001.7	23878.9
2013	6894.5	1159.8	1593.0	1897.4	11516.3	23061.0
2014	6578.8	1128.7	1549.7	1815.8	10694.1	21767.1
2015	6319.9	1111.8	1521.1	1800.4	10573.4	21326.7
2016	6159.5	1114.1	1510.1	1814.6	10698.6	21297.0
2017	6033.1	1126.2	1505.6	1845.7	10921.3	21431.9
2018	5937.1	1146.2	1504.4	1890.0	10899.7	21377.4
2019	5839.8	1165.7	1500.1	1935.2	11133.8	21574.6
2020	5752.0	1189.0	1499.0	1985.7	11408.0	21833.7

Appendix A

Concordances between Envestra's South Australian gas distribution network zones and the Australian Bureau of Statistics' Local Government Areas

Table A.1 Concordances between Envestra's South Australian gas distribution network zones and the Australian Bureau of Statistics' Local Government Areas

LGA code	LGA name	North							South	Non-gas
		Central Adelaide	Western Adelaide	Northern Adelaide	Southern Adelaide	Peterborough	Port Pirie	Riverland	East Region Whyalla	South Australia
40070	Adelaide (C)	1								
40120	Adelaide Hills (DC)								1	
40220	Alexandrina (DC)								1	
40310	Barossa (DC)			1						
40430	Barunga West (DC)								1	
40520	Berri and Barmera (DC)							1		
40700	Burnside (C)	1								
40910	Campbelltown (C)	1								
41010	Ceduna (DC)								1	
41060	Charles Sturt (C)	0.5		0.5						
41140	Clare and Gilbert Valleys (DC)								1	
41190	Cleve (DC)								1	
41330	Cooper Pedy (DC)								1	
41560	Copper Coast (DC)								1	
41750	Elliston (DC)								1	
41830	Flinders Ranges (DC)								1	
41960	Franklin Harbor (DC)								1	
42030	Gawler (M)			1						
42110	Goyder (DC)								1	
42250	Grant (DC)								1	
42600	Holdfast Bay (C)				1					
42750	Kangaroo Island (DC)								1	
43080	Karoonda East Murray (DC)								1	
43220	Kimba (DC)								1	
43360	Lacepede (DC)								1	
43570	Le Hunte (DC)								1	
43650	Light (DC)			1						

Table A.1 **Concordances between Envestra's South Australian gas distribution network zones and the Australian Bureau of Statistics' Local Government Areas (continued)**

LGA code	LGA name	North							South	Non-gas	
		Central Adelaide	Western Adelaide	Northern Adelaide	Southern Adelaide	Peterborough	Port Pirie	Riverland	East Region	Whyalla	South Australia
47490	Streaky Bay (DC)										1
47630	Tatiara (DC)										1
47700	Tea Tree Gully (C)			1							
47800	The Coorong (DC)										1
47910	Tumby Bay (DC)										1
47980	Unley (C)	1									
48050	Victor Harbor (DC)										1
48130	Wakefield (DC)										1
48260	Walkerville (M)			1							
48340	Wattle Range (DC)										1
48410	West Torrens (C)	1									
48540	Whyalla (C)									1	
48750	Yankalilla (DC)										1
48830	Yorke Peninsula (DC)										1
49399	Unincorporated SA										1

Notes: 1 indicates the LGA is encompassed by the entire zone.
0.5 indicates the LGA is shared 50:50 with another zone.

Appendix B

Total sales and customers by class and region

TABLE B.1 GAS TRANSMISSION SYSTEM SA - GAS CONSUMPTION BY MARKET SECTOR - ADELAIDE

UNIT	RESI-	COMMERCIAL		INDUSTRIAL		TOTAL	TARIFF	TARIFF
	DENTIAL					GTS	V	D
		TARIFF	TARIFF	TARIFF	TARIFF			
		V	D	V	D			
	***** TERAJOULES *****							
2006	7569.67	978.46	1701.73	1797.39	12591.97	24639.22	10345.52	14293.70
2007	7371.19	964.91	1652.78	1772.50	12531.19	24292.57	10108.60	14183.97
2008	7114.36	999.14	1630.53	1835.36	11979.57	23558.96	9948.86	13610.10
2009	7445.27	1017.47	1569.88	1869.04	11216.28	23117.94	10331.78	12786.16
2010	7223.24	1032.91	1579.51	1784.78	10664.71	22285.14	10040.92	12244.21
2011	7112.98	1056.39	1599.25	1794.31	10760.48	22323.40	9963.68	12359.73
2012	6993.14	1081.52	1593.31	1825.95	10981.81	22475.73	9900.61	12575.12
2013	6868.20	1110.32	1581.54	1839.45	10667.86	22067.36	9817.96	12249.40
2014	6748.58	1102.39	1538.58	1794.41	10073.96	21257.92	9645.38	11612.55
2015	6633.61	1106.59	1510.32	1811.91	10153.63	21216.07	9552.12	11663.95
2016	6544.67	1124.06	1499.56	1849.76	10424.79	21442.84	9518.49	11924.35
2017	6452.87	1145.72	1495.17	1895.95	10741.42	21731.13	9494.54	12236.59
2018	6363.87	1170.27	1494.12	1946.95	10738.60	21713.80	9481.09	12232.71
2019	6267.37	1191.86	1489.98	1994.95	10988.10	21932.25	9454.18	12478.08
2020	6177.07	1216.94	1488.98	2047.38	11274.33	22204.71	9441.40	12763.31
PERCENTAGE CHANGES								
2007	-2.62	-1.38	-2.88	-1.38	-0.48	-1.41	-2.29	-0.77
2008	-3.48	3.55	-1.35	3.55	-4.40	-3.02	-1.58	-4.05
2009	4.65	1.83	-3.72	1.83	-6.37	-1.87	3.85	-6.05
2010	-2.98	1.52	0.61	-4.51	-4.92	-3.60	-2.82	-4.24
2011	-1.53	2.27	1.25	0.53	0.90	0.17	-0.77	0.94
2012	-1.68	2.38	-0.37	1.76	2.06	0.68	-0.63	1.74
2013	-1.79	2.66	-0.74	0.74	-2.86	-1.82	-0.83	-2.59
2014	-1.74	-0.71	-2.72	-2.45	-5.57	-3.67	-1.76	-5.20
2015	-1.70	0.38	-1.84	0.98	0.79	-0.20	-0.97	0.44
2016	-1.34	1.58	-0.71	2.09	2.67	1.07	-0.35	2.23
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	-0.55	1.31	-2.65	1.31	-3.78	-2.10	-0.04	-3.65
2011-2016	-1.65	1.25	-1.28	0.61	-0.63	-0.80	-0.91	-0.71
2010-2020	-1.55	1.65	-0.59	1.38	0.56	-0.04	-0.61	0.42

All data are for the financial year ending in June of the year specified.

TABLE B.2 GAS TRANSMISSION SYSTEM SA - GAS CONSUMPTION BY MARKET SECTOR - PETERSBOROUGH

UNIT	RESI-	COMMERCIAL		INDUSTRIAL		TOTAL	TARIFF	TARIFF
	DENTIAL	TARIFF	TARIFF	TARIFF	TARIFF	GTS	V	D
		V	D	V	D			
	***** TERAJOULES *****							
2006	0.65	1.45	0.00	0.00	0.00	2.10	2.10	0.00
2007	0.56	1.46	0.00	0.00	0.00	2.02	2.02	0.00
2008	0.64	1.65	0.00	0.00	0.00	2.29	2.29	0.00
2009	0.86	1.69	0.00	0.00	0.00	2.55	2.55	0.00
2010	0.81	1.70	0.00	0.00	0.00	2.51	2.51	0.00
2011	0.78	1.72	0.00	0.00	0.00	2.50	2.50	0.00
2012	0.75	1.73	0.00	0.00	0.00	2.48	2.48	0.00
2013	0.71	1.74	0.00	0.00	0.00	2.45	2.45	0.00
2014	0.68	1.72	0.00	0.00	0.00	2.40	2.40	0.00
2015	0.65	1.70	0.00	0.00	0.00	2.35	2.35	0.00
2016	0.63	1.70	0.00	0.00	0.00	2.32	2.32	0.00
2017	0.60	1.70	0.00	0.00	0.00	2.30	2.30	0.00
2018	0.58	1.71	0.00	0.00	0.00	2.29	2.29	0.00
2019	0.55	1.72	0.00	0.00	0.00	2.27	2.27	0.00
2020	0.53	1.73	0.00	0.00	0.00	2.26	2.26	0.00
PERCENTAGE CHANGES								
2007	-13.85	0.69	0.00	0.00	0.00	-3.81	-3.81	0.00
2008	14.29	13.01	0.00	0.00	0.00	13.37	13.37	0.00
2009	34.38	2.42	0.00	0.00	0.00	11.35	11.35	0.00
2010	-5.48	0.69	0.00	0.00	0.00	-1.39	-1.39	0.00
2011	-4.05	0.83	0.00	0.00	0.00	-0.75	-0.75	0.00
2012	-4.26	0.87	0.00	0.00	0.00	-0.74	-0.74	0.00
2013	-4.33	0.51	0.00	0.00	0.00	-0.95	-0.95	0.00
2014	-4.36	-1.16	0.00	0.00	0.00	-2.09	-2.09	0.00
2015	-4.32	-1.14	0.00	0.00	0.00	-2.05	-2.05	0.00
2016	-3.95	-0.21	0.00	0.00	0.00	-1.25	-1.25	0.00
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	9.78	5.24	0.00	0.00	0.00	6.69	6.69	0.00
2011-2016	-4.24	-0.23	0.00	0.00	0.00	-1.42	-1.42	0.00
2010-2020	-4.14	0.16	0.00	0.00	0.00	-1.06	-1.06	0.00

All data are for the financial year ending in June of the year specified.

TABLE B.3 GAS TRANSMISSION SYSTEM SA - GAS CONSUMPTION BY MARKET SECTOR - PORT PIRIE

UNIT	RESI-	COMMERCIAL		INDUSTRIAL		TOTAL	TARIFF	TARIFF
	DENTIAL					GTS	V	D
		TARIFF	TARIFF	TARIFF	TARIFF			
		V	D	V	D			
	***** TERAJOULES *****							
2006	75.01	14.39	0.00	11.42	1006.34	1107.16	100.82	1006.34
2007	73.87	13.84	0.00	10.98	842.47	941.16	98.69	842.47
2008	70.02	14.40	0.00	11.42	932.65	1028.49	95.84	932.65
2009	72.59	14.65	0.00	11.62	898.17	997.03	98.86	898.17
2010	69.66	14.70	0.00	11.74	875.83	971.92	96.09	875.83
2011	67.83	14.75	0.00	11.95	875.02	969.55	94.53	875.02
2012	65.89	14.80	0.00	12.19	879.60	972.48	92.88	879.60
2013	63.92	14.77	0.00	12.36	877.89	968.95	91.05	877.89
2014	61.99	14.57	0.00	12.35	857.27	946.17	88.90	857.27
2015	60.12	14.32	0.00	12.37	849.45	936.26	86.82	849.45
2016	58.53	14.21	0.00	12.51	849.88	935.12	85.24	849.88
2017	56.94	14.18	0.00	12.72	854.79	938.62	83.83	854.79
2018	55.39	14.18	0.00	12.96	861.26	943.78	82.52	861.26
2019	53.80	14.18	0.00	13.20	867.08	948.26	81.17	867.08
2020	52.29	14.17	0.00	13.44	873.21	953.11	79.90	873.21
PERCENTAGE CHANGES								
2007	-1.52	-3.84	0.00	-3.84	-16.28	-14.99	-2.11	-16.28
2008	-5.21	4.03	0.00	4.03	10.70	9.28	-2.89	10.70
2009	3.67	1.74	0.00	1.74	-3.70	-3.06	3.15	-3.70
2010	-4.04	0.35	0.00	1.00	-2.49	-2.52	-2.80	-2.49
2011	-2.62	0.32	0.00	1.82	-0.09	-0.24	-1.63	-0.09
2012	-2.86	0.34	0.00	2.03	0.52	0.30	-1.74	0.52
2013	-2.99	-0.22	0.00	1.43	-0.19	-0.36	-1.97	-0.19
2014	-3.03	-1.34	0.00	-0.14	-2.35	-2.35	-2.36	-2.35
2015	-3.01	-1.67	0.00	0.19	-0.91	-1.05	-2.34	-0.91
2016	-2.65	-0.83	0.00	1.10	0.05	-0.12	-1.81	0.05
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	-1.09	0.59	0.00	0.59	-3.72	-3.43	-0.65	-3.72
2011-2016	-2.91	-0.75	0.00	0.92	-0.58	-0.72	-2.05	-0.58
2010-2020	-2.83	-0.37	0.00	1.37	-0.03	-0.20	-1.83	-0.03

All data are for the financial year ending in June of the year specified.

TABLE B.4 GAS TRANSMISSION SYSTEM SA - GAS CONSUMPTION BY MARKET SECTOR - RIVERLAND

UNIT	RESI-	COMMERCIAL		INDUSTRIAL		TOTAL GTS	TARIFF V	TARIFF D
	DENTIAL							
		TARIFF V	TARIFF D	TARIFF V	TARIFF D			
	***** TERAJOULES *****							
2006	1.24	8.23	4.54	18.08	34.47	66.56	27.55	39.01
2007	1.54	7.40	4.71	16.26	43.76	73.67	25.20	48.47
2008	1.79	7.86	4.07	17.28	58.60	89.60	26.93	62.67
2009	2.25	7.45	3.14	16.38	51.01	80.23	26.08	54.15
2010	2.48	7.53	3.21	15.97	50.52	79.71	25.98	53.73
2011	2.66	7.63	3.28	16.17	51.97	81.71	26.46	55.26
2012	2.84	7.73	3.35	16.52	53.95	84.40	27.10	57.30
2013	3.03	7.82	3.41	16.74	54.11	85.12	27.59	57.53
2014	3.10	7.74	3.37	16.51	54.20	84.92	27.35	57.57
2015	3.18	7.69	3.33	16.68	55.66	86.54	27.56	58.98
2016	3.27	7.72	3.32	17.04	57.75	89.11	28.04	61.07
2017	3.37	7.79	3.33	17.48	60.18	92.16	28.64	63.52
2018	3.46	7.87	3.35	17.97	62.84	95.50	29.30	66.19
2019	3.55	7.95	3.36	18.44	65.52	98.81	29.94	68.88
2020	3.64	8.03	3.38	18.95	68.37	102.36	30.62	71.75
PERCENTAGE CHANGES								
2007	24.19	-10.07	3.74	-10.07	26.95	10.68	-8.53	24.25
2008	16.23	6.26	-13.59	6.26	33.91	21.62	6.87	29.30
2009	25.70	-5.21	-22.85	-5.21	-12.95	-10.46	-3.16	-13.60
2010	10.43	1.01	2.29	-2.51	-0.97	-0.65	-0.39	-0.78
2011	7.10	1.30	2.27	1.28	2.88	2.52	1.84	2.84
2012	6.82	1.36	2.01	2.19	3.81	3.29	2.42	3.71
2013	6.51	1.20	1.85	1.30	0.30	0.85	1.82	0.39
2014	2.52	-1.00	-1.40	-1.40	0.17	-0.23	-0.85	0.07
2015	2.55	-0.64	-1.19	1.08	2.68	1.91	0.76	2.46
2016	2.81	0.37	-0.04	2.13	3.75	2.96	1.72	3.54
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	21.97	-3.25	-11.56	-3.25	13.96	6.42	-1.81	11.55
2011-2016	4.22	0.25	0.24	1.05	2.13	1.75	1.17	2.02
2010-2020	3.90	0.65	0.50	1.73	3.07	2.53	1.66	2.93

All data are for the financial year ending in June of the year specified.

TABLE B.5 GAS TRANSMISSION SYSTEM SA - GAS CONSUMPTION BY MARKET SECTOR - SOUTH EAST

UNIT	RESI-	COMMERCIAL		INDUSTRIAL		TOTAL	TARIFF	TARIFF
	DENTIAL					GTS	V	D
		TARIFF	TARIFF	TARIFF	TARIFF			
		V	D	V	D			
	***** TERAJOULES *****							
2006	183.21	32.29	0.00	47.09	99.27	361.86	262.59	99.27
2007	188.53	30.48	0.00	44.44	90.94	354.39	263.45	90.94
2008	195.98	33.72	0.00	49.17	115.31	394.18	278.87	115.31
2009	212.93	31.94	0.00	46.57	136.72	428.16	291.44	136.72
2010	205.68	32.16	0.00	46.18	131.23	415.24	284.02	131.23
2011	201.64	32.62	0.00	46.89	130.57	411.72	281.15	130.57
2012	197.45	33.11	0.00	47.88	131.10	409.54	278.44	131.10
2013	193.39	33.59	0.00	48.54	129.85	405.37	275.52	129.85
2014	189.57	33.25	0.00	48.15	126.10	397.07	270.97	126.10
2015	186.08	33.08	0.00	48.47	125.35	392.98	267.63	125.35
2016	183.49	33.27	0.00	49.26	125.96	391.98	266.02	125.96
2017	181.04	33.61	0.00	50.33	127.24	392.21	264.97	127.24
2018	178.84	34.02	0.00	51.51	128.85	393.22	264.37	128.85
2019	176.63	34.38	0.00	52.67	130.38	394.05	263.68	130.38
2020	174.74	34.78	0.00	53.88	132.13	395.53	263.41	132.13
PERCENTAGE CHANGES								
2007	2.90	-5.62	0.00	-5.62	-8.39	-2.06	0.33	-8.39
2008	3.95	10.64	0.00	10.64	26.80	11.23	5.85	26.80
2009	8.65	-5.28	0.00	-5.28	18.57	8.62	4.51	18.57
2010	-3.41	0.70	0.00	-0.84	-4.02	-3.02	-2.55	-4.02
2011	-1.96	1.44	0.00	1.53	-0.50	-0.85	-1.01	-0.50
2012	-2.08	1.51	0.00	2.11	0.40	-0.53	-0.96	0.40
2013	-2.06	1.44	0.00	1.36	-0.95	-1.02	-1.05	-0.95
2014	-1.98	-1.01	0.00	-0.80	-2.89	-2.05	-1.65	-2.89
2015	-1.84	-0.50	0.00	0.65	-0.60	-1.03	-1.23	-0.60
2016	-1.39	0.56	0.00	1.64	0.48	-0.26	-0.60	0.48
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	5.14	-0.37	0.00	-0.37	11.26	5.77	3.54	11.26
2011-2016	-1.87	0.39	0.00	0.99	-0.72	-0.98	-1.10	-0.72
2010-2020	-1.62	0.79	0.00	1.55	0.07	-0.49	-0.75	0.07

All data are for the financial year ending in June of the year specified.

TABLE B.6 GAS TRANSMISSION SYSTEM SA - GAS CONSUMPTION BY MARKET SECTOR - WHYALLA

UNIT	RESI-	COMMERCIAL		INDUSTRIAL		TOTAL	TARIFF	TARIFF
	DENTIAL	TARIFF	TARIFF	TARIFF	TARIFF	GTS	V	D
		V	D	V	D			
	***** TERAJOULES *****							
2006	45.63	13.82	9.39	16.06	0.00	84.90	75.51	9.39
2007	46.51	12.40	9.55	14.40	0.00	82.86	73.31	9.55
2008	42.22	14.32	9.16	16.63	20.36	102.69	73.17	29.52
2009	43.53	13.77	8.72	15.99	6.28	88.29	73.29	15.00
2010	41.80	13.60	8.58	16.04	6.30	86.32	71.45	14.88
2011	40.75	13.47	8.45	16.25	6.33	85.25	70.47	14.78
2012	39.66	13.34	8.27	16.50	6.36	84.13	69.50	14.63
2013	38.54	13.18	8.07	16.65	6.36	82.81	68.38	14.43
2014	37.46	12.78	7.75	16.53	6.27	80.79	66.77	14.02
2015	36.44	12.41	7.46	16.49	6.18	78.97	65.33	13.64
2016	35.59	12.16	7.24	16.59	6.14	77.73	64.35	13.39
2017	34.77	11.99	7.08	16.80	6.14	76.78	63.56	13.22
2018	33.99	11.84	6.93	17.04	6.15	75.94	62.86	13.08
2019	33.18	11.69	6.78	17.27	6.16	75.08	62.14	12.94
2020	32.43	11.54	6.63	17.51	6.17	74.28	61.48	12.80
PERCENTAGE CHANGES								
2007	1.93	-10.31	1.70	-10.31	0.00	-2.40	-2.91	1.70
2008	-9.22	15.49	-4.08	15.49	0.00	23.93	-0.19	209.11
2009	3.10	-3.84	-4.80	-3.84	-69.16	-14.02	0.16	-49.19
2010	-3.97	-1.19	-1.63	0.30	0.32	-2.23	-2.52	-0.81
2011	-2.50	-0.98	-1.51	1.28	0.45	-1.25	-1.36	-0.68
2012	-2.69	-0.93	-2.08	1.53	0.49	-1.31	-1.38	-0.98
2013	-2.81	-1.20	-2.40	0.92	-0.03	-1.57	-1.62	-1.37
2014	-2.81	-3.07	-4.00	-0.71	-1.34	-2.43	-2.35	-2.83
2015	-2.73	-2.91	-3.77	-0.27	-1.49	-2.26	-2.16	-2.75
2016	-2.32	-1.95	-2.88	0.65	-0.61	-1.56	-1.50	-1.85
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	-1.56	-0.13	-2.44	-0.13	0.00	1.31	-0.99	16.90
2011-2016	-2.67	-2.02	-3.03	0.42	-0.60	-1.83	-1.80	-1.96
2010-2020	-2.51	-1.63	-2.54	0.88	-0.21	-1.49	-1.49	-1.49

All data are for the financial year ending in June of the year specified.

TABLE B.7 GAS TRANSMISSION SYSTEM SA - GAS CUSTOMERS BY MARKET SECTOR - ADELAIDE

UNIT	RESI- DENTIAL	COMMERCIAL		INDUSTRIAL		TOTAL GTS	TARIFF V	TARIFF D
		TARIFF V	TARIFF D	TARIFF V	TARIFF D			
	***** NUMBER *****							
2006	343429.00	7681.85	52.00	985.15	94.00	352185.00	352096.00	146.00
2007	349793.00	7821.01	51.00	1002.99	95.00	358707.00	358617.00	146.00
2008	356001.00	7958.39	52.00	1020.61	93.00	365067.00	364980.00	145.00
2009	362281.00	8095.77	53.00	1038.23	91.00	371500.00	371415.00	144.00
2010	369417.75	8169.25	53.20	1003.85	88.53	378673.22	378590.84	141.73
2011	376351.00	8280.17	53.56	1007.76	88.59	385721.25	385638.94	142.15
2012	383743.56	8397.80	53.45	1020.70	89.15	393244.84	393162.06	142.60
2013	389972.72	8531.25	53.31	1026.20	88.26	399612.03	399530.16	141.57
2014	396540.25	8494.68	52.33	1007.80	86.24	406122.59	406042.75	138.57
2015	403446.09	8514.08	51.70	1014.97	86.31	413055.03	412975.13	138.01
2016	410943.34	8594.46	51.41	1030.40	87.04	420648.81	420568.19	138.46
2017	419368.00	8693.46	51.25	1049.12	87.99	429192.06	429110.56	139.24
2018	427714.34	8804.73	51.16	1069.65	88.59	437670.78	437588.72	139.74
2019	435852.78	8901.84	51.00	1088.84	89.47	445926.34	445843.47	140.47
2020	444230.47	9013.78	50.90	1109.65	90.47	454437.75	454353.91	141.37
PERCENTAGE CHANGES								
2007	1.85	1.81	-1.92	1.81	1.06	1.85	1.85	0.00
2008	1.77	1.76	1.96	1.76	-2.11	1.77	1.77	-0.68
2009	1.76	1.73	1.92	1.73	-2.15	1.76	1.76	-0.69
2010	1.97	0.91	0.38	-3.31	-2.71	1.93	1.93	-1.57
2011	1.88	1.36	0.68	0.39	0.06	1.86	1.86	0.29
2012	1.96	1.42	-0.21	1.28	0.63	1.95	1.95	0.32
2013	1.62	1.59	-0.27	0.54	-1.00	1.62	1.62	-0.73
2014	1.68	-0.43	-1.83	-1.79	-2.29	1.63	1.63	-2.12
2015	1.74	0.23	-1.21	0.71	0.08	1.71	1.71	-0.41
2016	1.86	0.94	-0.55	1.52	0.85	1.84	1.84	0.33
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	1.80	1.76	0.64	1.76	-1.08	1.80	1.80	-0.46
2011-2016	1.77	0.75	-0.82	0.45	-0.35	1.75	1.75	-0.53
2010-2020	1.86	0.99	-0.44	1.01	0.22	1.84	1.84	-0.03

All data are for the financial year ending in June of the year specified.

TABLE B.8 GAS TRANSMISSION SYSTEM SA - GAS CUSTOMERS BY MARKET SECTOR - PETERSBOROUGH

UNIT	RESI- DENTIAL	COMMERCIAL		INDUSTRIAL		TOTAL GTS	TARIFF V	TARIFF D
		TARIFF V	TARIFF D	TARIFF V	TARIFF D			
	***** NUMBER *****							
2006	35.00	17.00	0.00	0.00	2.00	53.00	52.00	2.00
2007	35.00	17.00	0.00	0.00	2.00	53.00	52.00	2.00
2008	38.00	18.00	0.00	0.00	2.00	57.00	56.00	2.00
2009	44.00	18.00	0.00	0.00	2.00	63.00	62.00	2.00
2010	44.50	18.07	0.00	0.00	2.02	63.59	62.58	2.02
2011	44.97	18.16	0.00	0.00	2.04	64.15	63.13	2.04
2012	45.44	18.26	0.00	0.00	2.06	64.73	63.69	2.06
2013	45.75	18.31	0.00	0.00	2.07	65.11	64.07	2.07
2014	46.05	18.19	0.00	0.00	2.07	65.28	64.24	2.07
2015	46.38	18.06	0.00	0.00	2.07	65.49	64.44	2.07
2016	46.77	18.04	0.00	0.00	2.08	65.86	64.81	2.08
2017	47.25	18.08	0.00	0.00	2.10	66.38	65.32	2.10
2018	47.70	18.13	0.00	0.00	2.11	66.91	65.84	2.11
2019	48.12	18.19	0.00	0.00	2.13	67.39	66.31	2.13
2020	48.55	18.24	0.00	0.00	2.14	67.89	66.79	2.14
PERCENTAGE CHANGES								
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	8.57	5.88	0.00	0.00	0.00	7.55	7.69	0.00
2009	15.79	0.00	0.00	0.00	0.00	10.53	10.71	0.00
2010	1.14	0.41	0.00	0.00	1.01	0.93	0.93	1.01
2011	1.05	0.50	0.00	0.00	1.02	0.89	0.89	1.02
2012	1.04	0.52	0.00	0.00	0.89	0.89	0.89	0.89
2013	0.70	0.31	0.00	0.00	0.65	0.59	0.58	0.65
2014	0.66	-0.70	0.00	0.00	-0.04	0.27	0.27	-0.04
2015	0.71	-0.69	0.00	0.00	0.09	0.31	0.32	0.09
2016	0.83	-0.13	0.00	0.00	0.48	0.56	0.56	0.48
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	7.93	1.92	0.00	0.00	0.00	5.93	6.04	0.00
2011-2016	0.79	-0.14	0.00	0.00	0.41	0.52	0.52	0.41
2010-2020	0.87	0.09	0.00	0.00	0.59	0.66	0.65	0.59

All data are for the financial year ending in June of the year specified.

TABLE B.9 GAS TRANSMISSION SYSTEM SA - GAS CUSTOMERS BY MARKET SECTOR - PORT PIRIE

UNIT	RESI-	COMMERCIAL		INDUSTRIAL		TOTAL GTS	TARIFF	TARIFF
	DENTIAL	TARIFF V	TARIFF D	TARIFF V	TARIFF D		V	D
	***** NUMBER *****							
2006	4783.00	146.76	0.00	5.24	2.00	4937.00	4935.00	2.00
2007	4817.00	145.79	0.00	5.21	1.00	4969.00	4968.00	1.00
2008	4852.00	149.66	0.00	5.34	1.00	5008.00	5007.00	1.00
2009	4894.00	152.55	0.00	5.45	1.00	5053.00	5052.00	1.00
2010	4943.81	152.87	0.00	5.49	0.98	5103.15	5102.17	0.98
2011	4989.54	153.17	0.00	5.56	0.98	5149.25	5148.27	0.98
2012	5035.08	153.48	0.00	5.64	0.99	5195.19	5194.20	0.99
2013	5063.94	153.27	0.00	5.70	0.99	5223.90	5222.92	0.99
2014	5091.00	152.03	0.00	5.70	0.97	5249.70	5248.73	0.97
2015	5121.11	150.50	0.00	5.70	0.97	5278.28	5277.31	0.97
2016	5157.35	149.75	0.00	5.75	0.97	5313.82	5312.85	0.97
2017	5203.69	149.58	0.00	5.82	0.97	5360.06	5359.09	0.97
2018	5247.35	149.56	0.00	5.90	0.98	5403.78	5402.81	0.98
2019	5286.80	149.59	0.00	5.98	0.98	5443.34	5442.37	0.98
2020	5327.57	149.54	0.00	6.06	0.98	5484.15	5483.17	0.98
PERCENTAGE CHANGES								
2007	0.71	-0.66	0.00	-0.66	-50.00	0.65	0.67	-50.00
2008	0.73	2.65	0.00	2.65	0.00	0.78	0.79	0.00
2009	0.87	1.94	0.00	1.94	0.00	0.90	0.90	0.00
2010	1.02	0.21	0.00	0.73	-1.50	0.99	0.99	-1.50
2011	0.93	0.19	0.00	1.32	-0.06	0.90	0.90	-0.06
2012	0.91	0.20	0.00	1.48	0.31	0.89	0.89	0.31
2013	0.57	-0.13	0.00	1.04	-0.12	0.55	0.55	-0.12
2014	0.53	-0.81	0.00	-0.10	-1.42	0.49	0.49	-1.42
2015	0.59	-1.01	0.00	0.14	-0.55	0.54	0.54	-0.55
2016	0.71	-0.50	0.00	0.80	0.03	0.67	0.67	0.03
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	0.77	1.30	0.00	1.30	-20.63	0.78	0.78	-20.63
2011-2016	0.66	-0.45	0.00	0.67	-0.35	0.63	0.63	-0.35
2010-2020	0.75	-0.22	0.00	1.00	-0.02	0.72	0.72	-0.02

All data are for the financial year ending in June of the year specified.

TABLE B.10 GAS TRANSMISSION SYSTEM SA - GAS CUSTOMERS BY MARKET SECTOR - RIVERLAND

UNIT	RESI- DENTIAL	COMMERCIAL		INDUSTRIAL		TOTAL GTS	TARIFF V	TARIFF D
		TARIFF V	TARIFF D	TARIFF V	TARIFF D			
	***** NUMBER *****							
2006	80.00	30.40	1.00	7.60	12.00	126.00	118.00	13.00
2007	105.00	34.40	1.00	8.60	12.00	156.00	148.00	13.00
2008	144.00	34.40	1.00	8.60	12.00	195.00	187.00	13.00
2009	205.00	36.00	1.00	9.00	12.00	258.00	250.00	13.00
2010	231.51	36.22	1.01	8.83	12.13	284.51	276.56	13.14
2011	251.27	36.50	1.03	8.92	12.40	304.75	296.69	13.43
2012	272.69	36.80	1.04	9.06	12.66	326.75	318.55	13.70
2013	295.00	37.06	1.05	9.14	12.77	349.44	341.21	13.82
2014	307.82	36.84	1.04	9.05	12.78	361.91	353.71	13.82
2015	321.37	36.70	1.03	9.12	12.94	375.48	367.19	13.97
2016	335.89	36.78	1.03	9.26	13.17	390.36	381.93	14.21
2017	351.71	36.97	1.04	9.44	13.43	406.71	398.12	14.47
2018	368.06	37.20	1.04	9.63	13.71	423.67	414.90	14.75
2019	384.86	37.41	1.04	9.82	13.98	441.04	432.08	15.02
2020	402.49	37.64	1.04	10.01	14.27	459.28	450.14	15.31
PERCENTAGE CHANGES								
2007	31.25	13.16	0.00	13.16	0.00	23.81	25.42	0.00
2008	37.14	0.00	0.00	0.00	0.00	25.00	26.35	0.00
2009	42.36	4.65	0.00	4.65	0.00	32.31	33.69	0.00
2010	12.93	0.60	1.37	-1.84	1.09	10.28	10.62	1.11
2011	8.54	0.78	1.36	0.93	2.24	7.11	7.28	2.18
2012	8.52	0.82	1.20	1.60	2.08	7.22	7.37	2.01
2013	8.18	0.72	1.11	0.95	0.86	6.94	7.12	0.88
2014	4.34	-0.60	-0.84	-1.02	0.04	3.57	3.66	-0.03
2015	4.40	-0.39	-0.72	0.79	1.29	3.75	3.81	1.14
2016	4.52	0.22	-0.03	1.55	1.81	3.96	4.02	1.68
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	36.84	5.80	0.00	5.80	0.00	26.98	28.44	0.00
2011-2016	5.98	0.15	0.14	0.77	1.21	5.08	5.18	1.13
2010-2020	5.69	0.39	0.30	1.26	1.63	4.91	4.99	1.54

All data are for the financial year ending in June of the year specified.

TABLE B.11 GAS TRANSMISSION SYSTEM SA - GAS CUSTOMERS BY MARKET SECTOR - SOUTH EAST

UNIT	RESI-	COMMERCIAL		INDUSTRIAL		TOTAL	TARIFF	TARIFF
	DENTIAL	TARIFF	TARIFF	TARIFF	TARIFF	GTS	V	D
		V	D	V	D			
2006	6654.00	268.41	0.00	24.59	9.00	6955.00	6947.00	9.00
2007	6919.00	265.66	0.00	24.34	9.00	7217.00	7209.00	9.00
2008	7237.00	272.99	0.00	25.01	8.00	7543.00	7535.00	8.00
2009	7440.00	277.57	0.00	25.43	8.00	7751.00	7743.00	8.00
2010	7729.61	278.72	0.00	25.28	7.83	8041.44	8033.61	7.83
2011	8007.81	281.12	0.00	25.56	7.83	8322.32	8314.49	7.83
2012	8295.02	283.65	0.00	25.95	7.86	8612.49	8604.63	7.86
2013	8564.14	286.10	0.00	26.21	7.83	8884.28	8876.45	7.83
2014	8838.62	284.36	0.00	26.06	7.71	9156.75	9149.04	7.71
2015	9126.99	283.50	0.00	26.18	7.70	9444.38	9436.68	7.70
2016	9435.47	284.45	0.00	26.50	7.73	9754.15	9746.42	7.73
2017	9772.54	286.19	0.00	26.91	7.79	10093.43	10085.64	7.79
2018	10115.77	288.28	0.00	27.37	7.86	10439.29	10431.42	7.86
2019	10462.19	290.10	0.00	27.82	7.93	10788.05	10780.12	7.93
2020	10822.50	292.16	0.00	28.29	8.00	11150.95	11142.95	8.00
PERCENTAGE CHANGES								
2007	3.98	-1.02	0.00	-1.02	0.00	3.77	3.77	0.00
2008	4.60	2.76	0.00	2.76	-11.11	4.52	4.52	-11.11
2009	2.81	1.68	0.00	1.68	0.00	2.76	2.76	0.00
2010	3.89	0.42	0.00	-0.61	-2.12	3.75	3.75	-2.12
2011	3.60	0.86	0.00	1.12	-0.05	3.49	3.50	-0.05
2012	3.59	0.90	0.00	1.54	0.47	3.49	3.49	0.47
2013	3.24	0.86	0.00	0.99	-0.44	3.16	3.16	-0.44
2014	3.21	-0.61	0.00	-0.58	-1.51	3.07	3.07	-1.51
2015	3.26	-0.30	0.00	0.48	-0.17	3.14	3.14	-0.17
2016	3.38	0.33	0.00	1.19	0.46	3.28	3.28	0.46
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	3.79	1.12	0.00	1.12	-3.85	3.68	3.68	-3.85
2011-2016	3.34	0.24	0.00	0.72	-0.24	3.23	3.23	-0.24
2010-2020	3.42	0.47	0.00	1.13	0.22	3.32	3.33	0.22

All data are for the financial year ending in June of the year specified.

TABLE B.12 GAS TRANSMISSION SYSTEM SA - GAS CUSTOMERS BY MARKET SECTOR - WHYALLA

UNIT	RESI-	COMMERCIAL		INDUSTRIAL		TOTAL GTS	TARIFF	TARIFF
	DENTIAL	TARIFF V	TARIFF D	TARIFF V	TARIFF D		V	D
	***** NUMBER *****							
2006	3074.00	101.52	1.00	7.48	4.00	3187.00	3183.00	5.00
2007	3136.00	101.52	1.00	7.48	2.00	3247.00	3245.00	3.00
2008	3231.00	102.45	1.00	7.55	3.00	3344.00	3341.00	4.00
2009	3385.00	106.18	1.00	7.82	2.00	3501.00	3499.00	3.00
2010	3448.63	105.42	0.99	7.84	2.02	3563.91	3561.89	3.01
2011	3510.26	104.80	0.98	7.91	2.04	3625.02	3622.98	3.03
2012	3572.56	104.21	0.97	8.00	2.08	3686.85	3684.78	3.05
2013	3623.86	103.46	0.95	8.06	2.09	3737.46	3735.38	3.04
2014	3674.49	101.54	0.93	8.01	2.09	3786.14	3784.05	3.02
2015	3727.92	99.76	0.91	8.00	2.10	3837.78	3835.68	3.01
2016	3786.45	98.59	0.89	8.04	2.12	3895.20	3893.07	3.02
2017	3853.11	97.74	0.88	8.11	2.16	3961.12	3958.96	3.04
2018	3918.66	97.01	0.87	8.19	2.19	4026.05	4023.86	3.06
2019	3981.92	96.24	0.86	8.28	2.22	4088.66	4086.44	3.08
2020	4046.97	95.50	0.85	8.36	2.26	4153.08	4150.82	3.11
PERCENTAGE CHANGES								
2007	2.02	0.00	0.00	0.00	-50.00	1.88	1.95	-40.00
2008	3.03	0.92	0.00	0.92	50.00	2.99	2.96	33.33
2009	4.77	3.64	0.00	3.64	-33.33	4.69	4.73	-25.00
2010	1.88	-0.71	-0.98	0.22	0.82	1.80	1.80	0.22
2011	1.79	-0.59	-0.91	0.93	1.41	1.71	1.72	0.64
2012	1.77	-0.56	-1.25	1.11	1.57	1.71	1.71	0.65
2013	1.44	-0.72	-1.44	0.67	0.41	1.37	1.37	-0.18
2014	1.40	-1.85	-2.42	-0.52	0.25	1.30	1.30	-0.59
2015	1.45	-1.75	-2.28	-0.20	0.52	1.36	1.36	-0.34
2016	1.57	-1.18	-1.74	0.47	1.09	1.50	1.50	0.24
COMPOUND GROWTH RATE (PER CENT) -								
2006-2009	3.26	1.51	0.00	1.51	-20.63	3.18	3.21	-15.66
2011-2016	1.53	-1.21	-1.83	0.31	0.77	1.45	1.45	-0.05
2010-2020	1.61	-0.98	-1.53	0.64	1.15	1.54	1.54	0.33

All data are for the financial year ending in June of the year specified.

Appendix C

Tariff D sales and customers by industry and region – six regions

TABLE C.1 GAS TRANSMISSION SYSTEM - TARIFF D BLOCK GAS CUSTOMERS BY INDUSTRY SECTOR - ADELAIDE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** NUMBER *****										
2006	3.00	0.00	85.00	1.00	0.00	1.00	4.00	1.00	29.00	16.00	140.00
2007	3.00	0.00	86.00	0.00	0.00	1.00	4.00	1.00	29.00	16.00	140.00
2008	4.00	0.00	83.00	1.00	0.00	1.00	4.00	1.00	29.00	16.00	139.00
2009	4.00	0.00	81.00	1.00	0.00	1.00	5.00	1.00	29.00	16.00	138.00
2010	4.10	0.00	78.48	1.00	0.00	1.01	5.03	0.99	28.94	16.22	135.78
2011	4.19	0.00	78.38	1.00	0.00	1.03	5.11	0.99	29.01	16.43	136.14
2012	4.24	0.00	78.83	1.00	0.00	1.04	5.16	1.05	28.60	16.60	136.52
2013	4.27	0.00	77.93	1.00	0.00	1.06	5.12	1.10	28.26	16.77	135.50
2014	4.25	0.00	75.99	1.00	0.00	1.05	5.17	1.11	27.40	16.59	132.57
2015	4.26	0.00	76.01	1.00	0.00	1.06	5.19	1.11	26.90	16.44	131.98
2016	4.29	0.00	76.65	1.00	0.00	1.07	5.24	1.12	26.58	16.41	132.36
2017	4.32	0.00	77.50	1.00	0.00	1.08	5.30	1.13	26.33	16.40	133.07
2018	4.35	0.00	77.98	1.00	0.00	1.10	5.38	1.15	26.11	16.42	133.49
2019	4.38	0.00	78.75	1.00	0.00	1.11	5.44	1.16	25.87	16.41	134.13
2020	4.41	0.00	79.64	1.00	0.00	1.12	5.51	1.18	25.66	16.43	134.94
PERCENTAGE CHANGES											
2007	0.00	0.00	1.18	-100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	33.33	0.00	-3.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.71
2009	0.00	0.00	-2.41	0.00	0.00	0.00	25.00	0.00	0.00	0.00	-0.72
2010	2.56	0.00	-3.12	0.00	0.00	1.18	0.69	-0.73	-0.20	1.40	-1.61
2011	2.18	0.00	-0.12	0.00	0.00	1.42	1.59	-0.41	0.23	1.26	0.26
2012	1.16	0.00	0.57	0.00	0.00	1.48	0.91	5.71	-1.40	1.08	0.28
2013	0.63	0.00	-1.14	0.00	0.00	1.65	-0.75	5.36	-1.21	1.01	-0.75
2014	-0.49	0.00	-2.48	0.00	0.00	-0.37	1.00	0.74	-3.02	-1.07	-2.16
2015	0.41	0.00	0.03	0.00	0.00	0.29	0.30	0.21	-1.83	-0.92	-0.45
2016	0.70	0.00	0.84	0.00	0.00	1.00	1.01	0.92	-1.21	-0.21	0.29
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	10.06	0.00	-1.59	0.00	0.00	0.00	7.72	0.00	0.00	0.00	-0.48
2011-2016	0.48	0.00	-0.44	0.00	0.00	0.81	0.49	2.56	-1.74	-0.03	-0.56
2010-2020	0.72	0.00	0.15	0.00	0.00	1.05	0.91	1.71	-1.20	0.13	-0.06

All data are for the financial year ending in June of the year specified.

TABLE C.2 ENVESTRA - TARIFF D BLOCK GAS CUSTOMERS BY MANUFACTURING SECTOR - ADELAIDE

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PRINTING + PUBLISHING ASIC 25	PAPER, PRODUCTS AND PRINTING ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL-ANEOUS MANUFA-CTURING ASIC 34	TOTAL MANUFA-CTURING DIV C
UNIT	***** NUMBER *****											
2006	26.00	0.00	4.00	3.00	4.00	13.00	2.00	9.00	9.00	6.00	9.00	85.00
2007	26.00	0.00	4.00	2.00	4.00	15.00	3.00	8.00	9.00	6.00	9.00	86.00
2008	25.00	0.00	4.00	2.00	4.00	15.00	3.00	8.00	9.00	4.00	9.00	83.00
2009	25.00	0.00	4.00	2.00	4.00	16.00	2.00	7.00	8.00	4.00	9.00	81.00
2010	24.55	0.00	3.84	1.96	3.88	15.52	1.88	6.62	7.67	3.81	8.74	78.48
2011	24.86	0.00	3.79	1.98	3.87	15.66	1.84	6.42	7.51	3.73	8.72	78.38
2012	25.36	0.00	3.77	2.00	3.88	15.92	1.82	6.25	7.41	3.66	8.75	78.83
2013	25.32	0.00	3.73	2.00	3.88	15.56	1.79	6.06	7.27	3.56	8.74	77.93
2014	25.18	0.00	3.64	1.97	3.81	14.90	1.72	5.77	7.03	3.40	8.57	75.99
2015	25.57	0.00	3.60	1.98	3.81	15.00	1.70	5.60	6.88	3.31	8.57	76.01
2016	26.13	0.00	3.58	2.00	3.84	15.30	1.69	5.46	6.78	3.25	8.62	76.65
2017	26.78	0.00	3.57	2.03	3.87	15.64	1.68	5.35	6.69	3.19	8.70	77.50
2018	27.46	0.00	3.57	2.06	3.91	15.52	1.67	5.24	6.62	3.14	8.78	77.98
2019	28.13	0.00	3.57	2.08	3.95	15.75	1.67	5.12	6.54	3.09	8.85	78.75
2020	28.84	0.00	3.56	2.11	3.99	16.02	1.66	5.02	6.47	3.04	8.94	79.64
PERCENTAGE CHANGES												
2007	0.00	0.00	0.00	-33.33	0.00	15.38	50.00	-11.11	0.00	0.00	0.00	1.18
2008	-3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-33.33	0.00	-3.49
2009	0.00	0.00	0.00	0.00	0.00	6.67	-33.33	-12.50	-11.11	0.00	0.00	-2.41
2010	-1.81	0.00	-3.97	-1.82	-3.11	-3.00	-5.96	-5.39	-4.15	-4.66	-2.86	-3.12
2011	1.27	0.00	-1.34	0.70	-0.25	0.93	-2.06	-3.08	-2.02	-2.18	-0.26	-0.12
2012	2.01	0.00	-0.56	1.06	0.47	1.61	-1.08	-2.55	-1.41	-1.85	0.38	0.57
2013	-0.16	0.00	-0.93	0.19	-0.07	-2.22	-1.72	-3.11	-1.81	-2.75	-0.16	-1.14
2014	-0.54	0.00	-2.58	-1.68	-1.89	-4.26	-3.94	-4.73	-3.30	-4.60	-1.90	-2.48
2015	1.54	0.00	-1.07	0.42	0.03	0.67	-1.32	-3.03	-2.11	-2.58	-0.05	0.03
2016	2.21	0.00	-0.51	1.18	0.68	2.03	-0.65	-2.39	-1.55	-1.84	0.61	0.84
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	-1.30	0.00	0.00	-12.64	0.00	7.17	0.00	-8.04	-3.85	-12.64	0.00	-1.59
2011-2016	1.01	0.00	-1.13	0.23	-0.16	-0.46	-1.75	-3.17	-2.04	-2.73	-0.23	-0.44
2010-2020	1.63	0.00	-0.75	0.73	0.29	0.32	-1.25	-2.74	-1.69	-2.25	0.22	0.15

All data are for the financial year ending in June of the year specified.

TABLE C.3 ENVESTRA - TARIFF D BLOCK GAS CUSTOMERS BY INDUSTRY SECTOR - PETERSBOROUGH

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF										
UNIT	*****										NUMBER	*****									
2006	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00									
2007	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00									
2008	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00									
2009	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00									
2010	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01									
2011	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02									
2012	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02									
2013	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03									
2014	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03									
2015	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03									
2016	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03									
2017	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04									
2018	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04									
2019	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04									
2020	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05									
PERCENTAGE CHANGES																					
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
2010	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01									
2011	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88									
2012	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57									
2013	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40									
2014	-0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.16									
2015	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14									
2016	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39									
COMPOUND GROWTH RATE (PER CENT) -																					
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
2011-2016	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27									
2010-2020	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37									

All data are for the financial year ending in June of the year specified.

TABLE C.4 ENVESTRA - TARIFF D BLOCK GAS CUSTOMERS BY MANUFACTURING SECTOR - PETERSBOROUGH

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PRINTING + PUBLISHING ASIC 25	PAPER, PRODUCTS AND PRINTING ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL-ANEOUS MANUFA-CTURING ASIC 34	TOTAL MANUFA-CTURING DIV C
UNIT	***** NUMBER *****											
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PERCENTAGE CHANGES												
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011-2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010-2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

All data are for the financial year ending in June of the year specified.

TABLE C.5 ENVESTRA - TARIFF D BLOCK GAS CUSTOMERS BY INDUSTRY SECTOR - PORT PIRIE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF										
UNIT	*****										NUMBER	*****									
2006	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00										
2007	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00										
2008	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00										
2009	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00										
2010	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98										
2011	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98										
2012	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99										
2013	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99										
2014	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97										
2015	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97										
2016	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97										
2017	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97										
2018	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98										
2019	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98										
2020	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98										
PERCENTAGE CHANGES																					
2007	0.00	0.00	-50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-50.00										
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
2010	0.00	0.00	-1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.50										
2011	0.00	0.00	-0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.06										
2012	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31										
2013	0.00	0.00	-0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.12										
2014	0.00	0.00	-1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.42										
2015	0.00	0.00	-0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.55										
2016	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03										
COMPOUND GROWTH RATE (PER CENT) -																					
2006-2009	0.00	0.00	-20.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.63										
2011-2016	0.00	0.00	-0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.35										
2010-2020	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02										

All data are for the financial year ending in June of the year specified.

TABLE C.6 ENVESTRA - TARIFF D BLOCK GAS CUSTOMERS BY MANUFACTURING SECTOR - PORT PIRIE

	FOOD, BEV. + TOBACCO	TEXTILES, CLOTHING AND FOOTWEAR	WOOD, WOOD AND FURNITURE	PAPER, PAPER PRODUCTS PRINTING + PUBLISHING	CHEMICAL, PETROLEUM AND COAL	NON- METALLIC MINERAL PRODUCTS	BASIC METAL PRODUCTS	FABRI- CATED METAL PRODUCTS	TRANSPORT EQUIPMENT	OTHER MACHINERY AND EQUIPMENT	MISCELL -ANEOUS MANUFA- CTURING	TOTAL MANUFA- CTURING	
	ASIC 21	ASIC 23/24	ASIC 25	ASIC 26	ASIC 27	ASIC 28	ASIC 29	ASIC 31	ASIC 32	ASIC 33	ASIC 34	DIV C	
UNIT	*****						NUMBER	*****					
2006	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	
2007	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	
2008	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	
2009	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.98	
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.98	
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.99	
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.99	
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.97	
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.97	
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.97	
2017	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.97	
2018	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.98	
2019	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.98	
2020	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.98	
PERCENTAGE CHANGES													
2007	-100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-50.00	
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	-1.50	0.00	0.00	0.00	0.00	-1.50	
2011	0.00	0.00	0.00	0.00	0.00	0.00	-0.06	0.00	0.00	0.00	0.00	-0.06	
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.31	
2013	0.00	0.00	0.00	0.00	0.00	0.00	-0.12	0.00	0.00	0.00	0.00	-0.12	
2014	0.00	0.00	0.00	0.00	0.00	0.00	-1.42	0.00	0.00	0.00	0.00	-1.42	
2015	0.00	0.00	0.00	0.00	0.00	0.00	-0.55	0.00	0.00	0.00	0.00	-0.55	
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03	
COMPOUND GROWTH RATE (PER CENT) -													
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.63	
2011-2016	0.00	0.00	0.00	0.00	0.00	0.00	-0.35	0.00	0.00	0.00	0.00	-0.35	
2010-2020	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	-0.02	

All data are for the financial year ending in June of the year specified.

TABLE C.7 ENVESTRA - TARIFF D BLOCK GAS CUSTOMERS BY INDUSTRY SECTOR - RIVERLAND

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF										
UNIT	*****										NUMBER	*****									
2006	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00									
2007	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00									
2008	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00									
2009	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00									
2010	1.04	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.04									
2011	1.09	0.00	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10									
2012	1.11	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.15									
2013	1.14	0.00	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.17									
2014	1.14	0.00	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.18									
2015	1.16	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22									
2016	1.19	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26									
2017	1.21	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31									
2018	1.23	0.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.37									
2019	1.26	0.00	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.42									
2020	1.28	0.00	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.47									
PERCENTAGE CHANGES																					
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
2010	4.47	0.00	-0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.94									
2011	3.96	0.00	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87									
2012	2.63	0.00	2.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46									
2013	1.94	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09									
2014	0.56	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34									
2015	1.73	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67									
2016	2.04	0.00	2.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13									
COMPOUND GROWTH RATE (PER CENT) -																					
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
2011-2016	1.78	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.53									
2010-2020	2.07	0.00	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.95									

All data are for the financial year ending in June of the year specified.

TABLE C.8 ENVESTRA - TARIFF D BLOCK GAS CUSTOMERS BY MANUFACTURING SECTOR - RIVERLAND

	FOOD, BEV. + TOBACCO	TEXTILES, CLOTHING AND FOOTWEAR	WOOD, WOOD AND FURNITURE	PAPER, PAPER PRODUCTS AND PRINTING + PUBLISHING	CHEMICAL, PETROLEUM AND COAL	NON-METALLIC MINERAL PRODUCTS	BASIC METAL PRODUCTS	FABRI-CATED METAL PRODUCTS	TRANSPORT EQUIPMENT	OTHER MACHINERY AND EQUIPMENT	MISCELL-ANEOUS MANUFA-CTURING	TOTAL MANUFA-CTURING	
	ASIC 21	ASIC 23/24	ASIC 25	ASIC 26	ASIC 27	ASIC 28	ASIC 29	ASIC 31	ASIC 32	ASIC 33	ASIC 34	DIV C	
UNIT	*****						NUMBER	*****					
2006	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	
2007	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	
2008	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	
2009	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	
2010	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	
2011	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	
2012	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	
2013	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	
2014	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	
2015	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	
2016	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	
2017	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	
2018	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13	
2019	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	
2020	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.19	
PERCENTAGE CHANGES													
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2010	-0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.58	
2011	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	
2012	2.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27	
2013	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	
2014	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	
2015	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	
2016	2.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.23	
COMPOUND GROWTH RATE (PER CENT) -													
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2011-2016	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	
2010-2020	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	

All data are for the financial year ending in June of the year specified.

TABLE C.9 ENVESTRA - TARIFF D BLOCK GAS CUSTOMERS BY INDUSTRY SECTOR - SOUTH EAST

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** NUMBER *****										
2006	1.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00
2007	1.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00
2008	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
2009	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
2010	0.00	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.88
2011	0.00	0.00	4.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.87
2012	0.00	0.00	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.88
2013	0.00	0.00	4.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.86
2014	0.00	0.00	4.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.77
2015	0.00	0.00	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.76
2016	0.00	0.00	4.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.77
2017	0.00	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.80
2018	0.00	0.00	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.83
2019	0.00	0.00	4.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.86
2020	0.00	0.00	4.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.90
PERCENTAGE CHANGES											
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	-100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-16.67
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	-2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.35
2011	0.00	0.00	-0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.27
2012	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
2013	0.00	0.00	-0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.53
2014	0.00	0.00	-1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.68
2015	0.00	0.00	-0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.37
2016	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5.90
2011-2016	0.00	0.00	-0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.41
2010-2020	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03

All data are for the financial year ending in June of the year specified.

TABLE C.10 ENVESTRA - TARIFF D BLOCK GAS CUSTOMERS BY MANUFACTURING SECTOR - SOUTH EAST

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PRINTING + PUBLISHING ASIC 25	PAPER, PRODUCTS AND PRINTING ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL-ANEOUS MANUFA-CTURING ASIC 34	TOTAL MANUFA-CTURING DIV C	
UNIT	*****						NUMBER	*****					
2006	1.00	0.00	3.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	
2007	1.00	0.00	3.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	
2008	1.00	0.00	3.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	
2009	1.00	0.00	3.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	
2010	1.01	0.00	2.90	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.88	
2011	1.04	0.00	2.87	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.87	
2012	1.07	0.00	2.85	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.88	
2013	1.09	0.00	2.83	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.86	
2014	1.10	0.00	2.76	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.77	
2015	1.13	0.00	2.73	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.76	
2016	1.16	0.00	2.71	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.77	
2017	1.19	0.00	2.70	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.80	
2018	1.23	0.00	2.69	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.83	
2019	1.27	0.00	2.69	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.86	
2020	1.32	0.00	2.68	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.90	
PERCENTAGE CHANGES													
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2010	1.34	0.00	-3.29	-3.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.35	
2011	2.79	0.00	-1.18	-0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.27	
2012	3.14	0.00	-0.55	-0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	
2013	1.12	0.00	-0.90	-1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.53	
2014	1.37	0.00	-2.38	-3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.68	
2015	2.25	0.00	-1.20	-1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.37	
2016	2.85	0.00	-0.64	-0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	
COMPOUND GROWTH RATE (PER CENT) -													
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2011-2016	2.14	0.00	-1.14	-1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.41	
2010-2020	2.64	0.00	-0.79	-0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	

All data are for the financial year ending in June of the year specified.

TABLE C.11 ENVESTRA - TARIFF D BLOCK GAS CUSTOMERS BY INDUSTRY SECTOR - WHYALLA

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF										
UNIT	*****										NUMBER	*****									
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00										
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00										
2008	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	2.00										
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1.00										
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.99										
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.98										
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.97										
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.95										
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.93										
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.00	0.91										
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.89										
2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.00	0.88										
2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.87										
2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.86										
2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.85										
PERCENTAGE CHANGES																					
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00										
2009	0.00	0.00	-100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-50.00										
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.98	0.00	-0.98										
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.91	0.00	-0.91										
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.25	0.00	-1.25										
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.44	0.00	-1.44										
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.42	0.00	-2.42										
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.28	0.00	-2.28										
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.74	0.00	-1.74										
COMPOUND GROWTH RATE (PER CENT) -																					
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
2011-2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.83	0.00	-1.83										
2010-2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.53	0.00	-1.53										

All data are for the financial year ending in June of the year specified.

TABLE C.12 ENVESTRA - TARIFF D BLOCK GAS CUSTOMERS BY MANUFACTURING SECTOR - WHYALLA

	FOOD, BEV. + TOBACCO	TEXTILES, CLOTHING AND FOOTWEAR	WOOD, WOOD AND FURNITURE	PAPER, PROD'S PAPER PRINTING + PUBLISHING	CHEMICAL, PETROLEUM AND COAL	NON- METALLIC MINERAL PRODUCTS	BASIC METAL PRODUCTS	FABRI- CATED METAL PRODUCTS	TRANSPORT EQUIPMENT	OTHER MACHINERY AND EQUIPMENT	MISCELL -ANEOUS MANUFA- CTURING	TOTAL MANUFA- CTURING	
	ASIC 21	ASIC 23/24	ASIC 25	ASIC 26	ASIC 27	ASIC 28	ASIC 29	ASIC 31	ASIC 32	ASIC 33	ASIC 34	DIV C	
UNIT	*****						NUMBER	*****					
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	
2008	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	3.00	
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02	
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.04	
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08	
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09	
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09	
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10	
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.12	
2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16	
2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.19	
2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22	
2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26	
PERCENTAGE CHANGES													
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-50.00	
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	
2009	0.00	0.00	0.00	0.00	0.00	0.00	-100.00	0.00	0.00	0.00	0.00	-33.33	
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	
COMPOUND GROWTH RATE (PER CENT) -													
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.63	
2011-2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	
2010-2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15	

All data are for the financial year ending in June of the year specified.

TABLE C.13 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY INDUSTRY SECTOR - ADELAIDE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	289.55	0.00	12591.97	0.01	0.00	10.62	318.19	13.37	948.98	410.56	14583.25
2007	257.01	0.00	12531.19	0.00	0.00	4.57	324.27	12.91	907.99	403.04	14440.98
2008	274.17	0.00	11979.57	0.00	0.00	5.10	317.82	20.13	883.72	403.76	13884.27
2009	364.90	0.00	11216.28	0.01	0.00	6.31	298.62	17.70	855.84	391.40	13151.06
2010	380.62	0.00	10664.71	0.01	0.00	6.43	302.04	17.48	852.99	400.54	12624.84
2011	394.53	0.00	10760.48	0.01	0.00	6.59	310.07	17.37	856.26	408.96	12754.26
2012	402.21	0.00	10981.81	0.01	0.00	6.75	314.77	19.05	836.36	416.37	12977.33
2013	406.47	0.00	10667.86	0.01	0.00	6.94	310.83	20.78	819.56	423.42	12655.87
2014	403.16	0.00	10073.96	0.01	0.00	6.89	316.05	21.04	778.72	415.87	12015.70
2015	405.91	0.00	10153.63	0.01	0.00	6.93	317.62	21.11	755.13	409.51	12069.86
2016	410.67	0.00	10424.79	0.01	0.00	7.04	322.98	21.44	740.00	408.09	12335.03
2017	415.20	0.00	10741.42	0.01	0.00	7.19	329.59	21.84	728.51	408.03	12651.78
2018	419.78	0.00	10738.60	0.01	0.00	7.35	337.03	22.31	718.59	408.83	12652.50
2019	424.08	0.00	10988.10	0.01	0.00	7.49	343.67	22.71	707.70	408.41	12902.16
2020	428.70	0.00	11274.33	0.01	0.00	7.65	351.30	23.18	697.78	409.05	13192.00
PERCENTAGE CHANGES											
2007	-11.24	0.00	-0.48	-100.00	0.00	-56.97	1.91	-3.44	-4.32	-1.83	-0.98
2008	6.68	0.00	-4.40	0.00	0.00	11.60	-1.99	55.93	-2.67	0.18	-3.86
2009	33.09	0.00	-6.37	0.00	0.00	23.73	-6.04	-12.07	-3.15	-3.06	-5.28
2010	4.31	0.00	-4.92	0.00	0.00	1.97	1.15	-1.22	-0.33	2.34	-4.00
2011	3.65	0.00	0.90	0.00	0.00	2.38	2.66	-0.68	0.38	2.10	1.03
2012	1.95	0.00	2.06	0.00	0.00	2.48	1.52	9.69	-2.32	1.81	1.75
2013	1.06	0.00	-2.86	0.00	0.00	2.76	-1.25	9.09	-2.01	1.69	-2.48
2014	-0.82	0.00	-5.57	0.00	0.00	-0.62	1.68	1.24	-4.98	-1.78	-5.06
2015	0.68	0.00	0.79	0.00	0.00	0.48	0.50	0.36	-3.03	-1.53	0.45
2016	1.17	0.00	2.67	0.00	0.00	1.67	1.69	1.54	-2.00	-0.35	2.20
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	8.01	0.00	-3.78	0.00	0.00	-15.93	-2.09	9.80	-3.38	-1.58	-3.39
2011-2016	0.81	0.00	-0.63	0.00	0.00	1.35	0.82	4.30	-2.88	-0.04	-0.67
2010-2020	1.20	0.00	0.56	0.00	0.00	1.75	1.52	2.86	-1.99	0.21	0.44

All data are for the financial year ending in June of the year specified.

TABLE C.14 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY MANUFACTURING SECTOR - ADELAIDE

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PRINTING + PUBLISHING ASIC 25	PAPER, PRODUCTS ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL-ANEOUS MANUFA-CTURING ASIC 34	TOTAL MANUFA-CTURING DIV C
UNIT	***** TERAJOULES *****											
2006	1774.57	0.00	156.06	78.75	48.69	7802.44	52.40	465.50	1187.35	544.44	481.77	12591.97
2007	1858.46	0.00	147.69	80.61	71.29	7791.44	59.60	339.76	1190.39	518.36	473.59	12531.19
2008	1939.32	0.00	147.80	80.74	69.94	7342.97	57.30	317.18	1030.63	495.40	498.29	11979.57
2009	1973.92	0.00	130.27	66.05	67.74	7166.90	43.74	278.10	596.64	420.84	472.08	11216.28
2010	1914.79	0.00	121.77	64.06	64.26	6812.36	39.48	253.55	555.99	388.65	449.79	10664.71
2011	1955.52	0.00	119.07	64.81	64.00	6918.40	38.13	240.65	537.41	374.63	447.86	10760.48
2012	2021.52	0.00	117.96	65.96	64.50	7105.20	37.45	230.52	524.81	363.15	450.73	10981.81
2013	2016.30	0.00	116.15	66.17	64.43	6844.49	36.38	218.71	509.08	346.65	449.50	10667.86
2014	1998.09	0.00	111.20	64.33	62.41	6364.98	34.02	201.73	481.36	320.49	435.36	10073.96
2015	2049.54	0.00	109.22	64.78	62.45	6436.33	33.27	191.64	464.56	306.82	435.03	10153.63
2016	2125.50	0.00	108.29	66.06	63.15	6655.24	32.91	184.07	452.62	297.48	439.47	10424.79
2017	2213.08	0.00	107.95	67.55	64.14	6900.22	32.67	177.50	443.37	289.17	445.77	10741.42
2018	2308.63	0.00	107.79	69.22	65.26	6813.94	32.50	171.49	435.07	281.69	453.02	10738.60
2019	2403.01	0.00	107.56	70.66	66.27	6983.62	32.24	165.32	426.64	273.36	459.41	10988.10
2020	2505.24	0.00	107.34	72.36	67.39	7179.13	32.04	159.64	418.43	266.14	466.62	11274.33
PERCENTAGE CHANGES												
2007	4.73	0.00	-5.36	2.36	46.42	-0.14	13.74	-27.01	0.26	-4.79	-1.70	-0.48
2008	4.35	0.00	0.07	0.16	-1.89	-5.76	-3.86	-6.65	-13.42	-4.43	5.22	-4.40
2009	1.78	0.00	-11.86	-18.19	-3.15	-2.40	-23.66	-12.32	-42.11	-15.05	-5.26	-6.37
2010	-3.00	0.00	-6.52	-3.01	-5.13	-4.95	-9.74	-8.83	-6.81	-7.65	-4.72	-4.92
2011	2.13	0.00	-2.22	1.17	-0.42	1.56	-3.42	-5.09	-3.34	-3.61	-0.43	0.90
2012	3.38	0.00	-0.93	1.78	0.79	2.70	-1.79	-4.21	-2.35	-3.06	0.64	2.06
2013	-0.26	0.00	-1.54	0.31	-0.12	-3.67	-2.85	-5.12	-3.00	-4.54	-0.27	-2.86
2014	-0.90	0.00	-4.26	-2.78	-3.13	-7.01	-6.49	-7.76	-5.45	-7.55	-3.15	-5.57
2015	2.58	0.00	-1.78	0.70	0.06	1.12	-2.20	-5.00	-3.49	-4.26	-0.08	0.79
2016	3.71	0.00	-0.85	1.98	1.13	3.40	-1.09	-3.95	-2.57	-3.05	1.02	2.67
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	3.61	0.00	-5.84	-5.69	11.64	-2.79	-5.84	-15.78	-20.50	-8.23	-0.67	-3.78
2011-2016	1.68	0.00	-1.88	0.38	-0.27	-0.77	-2.90	-5.22	-3.38	-4.51	-0.38	-0.63
2010-2020	2.72	0.00	-1.25	1.23	0.48	0.53	-2.07	-4.52	-2.80	-3.72	0.37	0.56

All data are for the financial year ending in June of the year specified.

TABLE C.15 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY INDUSTRY SECTOR - PETERSBOROUGH

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	9.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.70
2007	11.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.67
2008	10.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.75
2009	14.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.16
2010	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.40
2011	14.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.61
2012	14.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.75
2013	14.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.85
2014	14.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.81
2015	14.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.84
2016	14.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.94
2017	15.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.04
2018	15.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.13
2019	15.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.23
2020	15.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.32
PERCENTAGE CHANGES											
2007	20.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.31
2008	-7.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-7.88
2009	31.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.72
2010	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.69
2011	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47
2012	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95
2013	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67
2014	-0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.27
2015	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
2016	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	13.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.44
2011-2016	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45
2010-2020	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62

All data are for the financial year ending in June of the year specified.

TABLE C.16 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY MANUFACTURING SECTOR - PETERSBOROUGH

	FOOD, BEV. + TOBACCO	TEXTILES, CLOTHING AND FOOTWEAR	WOOD, WOOD AND FURNITURE	PAPER, PROD'S AND PRINTING + PUBLISHING	CHEMICAL, PETROLEUM AND COAL	NON-METALLIC MINERAL PRODUCTS	BASIC METAL PRODUCTS	FABRI-CATED METAL PRODUCTS	TRANSPORT EQUIPMENT	OTHER MACHINERY AND EQUIPMENT	MISCELL-ANEOUS MANUFA-CTURING	TOTAL MANUFA-CTURING
	ASIC 21	ASIC 23/24	ASIC 25	ASIC 26	ASIC 27	ASIC 28	ASIC 29	ASIC 31	ASIC 32	ASIC 33	ASIC 34	DIV C
UNIT	***** TERAJOULES *****											
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PERCENTAGE CHANGES												
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011-2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010-2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

All data are for the financial year ending in June of the year specified.

TABLE C.17 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY INDUSTRY SECTOR - PORT PIRIE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	0.00	0.00	1006.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1006.34
2007	0.00	0.00	842.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	842.47
2008	0.00	0.00	932.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	932.65
2009	0.00	0.00	898.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	898.17
2010	0.00	0.00	875.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	875.83
2011	0.00	0.00	875.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	875.02
2012	0.00	0.00	879.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	879.60
2013	0.00	0.00	877.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	877.89
2014	0.00	0.00	857.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	857.27
2015	0.00	0.00	849.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	849.45
2016	0.00	0.00	849.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	849.88
2017	0.00	0.00	854.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	854.79
2018	0.00	0.00	861.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	861.26
2019	0.00	0.00	867.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	867.08
2020	0.00	0.00	873.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	873.21
PERCENTAGE CHANGES											
2007	0.00	0.00	-16.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-16.28
2008	0.00	0.00	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.70
2009	0.00	0.00	-3.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.70
2010	0.00	0.00	-2.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.49
2011	0.00	0.00	-0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.09
2012	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52
2013	0.00	0.00	-0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.19
2014	0.00	0.00	-2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.35
2015	0.00	0.00	-0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.91
2016	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	0.00	0.00	-3.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.72
2011-2016	0.00	0.00	-0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.58
2010-2020	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03

All data are for the financial year ending in June of the year specified.

TABLE C.18 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY MANUFACTURING SECTOR - PORT PIRIE

	FOOD, BEV. + TOBACCO	TEXTILES, CLOTHING AND FOOTWEAR	WOOD, WOOD AND FURNITURE	PAPER, PAPER PRODUCTS PRINTING + PUBLISHING	CHEMICAL, PETROLEUM AND COAL	NON- METALLIC MINERAL PRODUCTS	BASIC METAL PRODUCTS	FABRI- CATED METAL PRODUCTS	TRANSPORT EQUIPMENT	OTHER MACHINERY AND EQUIPMENT	MISCELL -ANEOUS MANUFA- CTURING	TOTAL MANUFA- CTURING
	ASIC 21	ASIC 23/24	ASIC 25	ASIC 26	ASIC 27	ASIC 28	ASIC 29	ASIC 31	ASIC 32	ASIC 33	ASIC 34	DIV C
UNIT	***** TERAJOULES *****											
2006	39.49	0.00	0.00	0.00	0.00	0.00	966.85	0.00	0.00	0.00	0.00	1006.34
2007	0.87	0.00	0.00	0.00	0.00	0.00	841.60	0.00	0.00	0.00	0.00	842.47
2008	0.00	0.00	0.00	0.00	0.00	0.00	932.65	0.00	0.00	0.00	0.00	932.65
2009	0.00	0.00	0.00	0.00	0.00	0.00	898.17	0.00	0.00	0.00	0.00	898.17
2010	0.00	0.00	0.00	0.00	0.00	0.00	875.83	0.00	0.00	0.00	0.00	875.83
2011	0.00	0.00	0.00	0.00	0.00	0.00	875.02	0.00	0.00	0.00	0.00	875.02
2012	0.00	0.00	0.00	0.00	0.00	0.00	879.60	0.00	0.00	0.00	0.00	879.60
2013	0.00	0.00	0.00	0.00	0.00	0.00	877.89	0.00	0.00	0.00	0.00	877.89
2014	0.00	0.00	0.00	0.00	0.00	0.00	857.27	0.00	0.00	0.00	0.00	857.27
2015	0.00	0.00	0.00	0.00	0.00	0.00	849.45	0.00	0.00	0.00	0.00	849.45
2016	0.00	0.00	0.00	0.00	0.00	0.00	849.88	0.00	0.00	0.00	0.00	849.88
2017	0.00	0.00	0.00	0.00	0.00	0.00	854.79	0.00	0.00	0.00	0.00	854.79
2018	0.00	0.00	0.00	0.00	0.00	0.00	861.26	0.00	0.00	0.00	0.00	861.26
2019	0.00	0.00	0.00	0.00	0.00	0.00	867.08	0.00	0.00	0.00	0.00	867.08
2020	0.00	0.00	0.00	0.00	0.00	0.00	873.21	0.00	0.00	0.00	0.00	873.21
PERCENTAGE CHANGES												
2007	-97.80	0.00	0.00	0.00	0.00	0.00	-12.95	0.00	0.00	0.00	0.00	-16.28
2008	-100.00	0.00	0.00	0.00	0.00	0.00	10.82	0.00	0.00	0.00	0.00	10.70
2009	0.00	0.00	0.00	0.00	0.00	0.00	-3.70	0.00	0.00	0.00	0.00	-3.70
2010	0.00	0.00	0.00	0.00	0.00	0.00	-2.49	0.00	0.00	0.00	0.00	-2.49
2011	0.00	0.00	0.00	0.00	0.00	0.00	-0.09	0.00	0.00	0.00	0.00	-0.09
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.52
2013	0.00	0.00	0.00	0.00	0.00	0.00	-0.19	0.00	0.00	0.00	0.00	-0.19
2014	0.00	0.00	0.00	0.00	0.00	0.00	-2.35	0.00	0.00	0.00	0.00	-2.35
2015	0.00	0.00	0.00	0.00	0.00	0.00	-0.91	0.00	0.00	0.00	0.00	-0.91
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	-2.43	0.00	0.00	0.00	0.00	-3.72
2011-2016	0.00	0.00	0.00	0.00	0.00	0.00	-0.58	0.00	0.00	0.00	0.00	-0.58
2010-2020	0.00	0.00	0.00	0.00	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	-0.03

All data are for the financial year ending in June of the year specified.

TABLE C.19 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY INDUSTRY SECTOR - RIVERLAND

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	27.52	0.00	34.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.99
2007	28.00	0.00	43.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.76
2008	30.56	0.00	58.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.16
2009	31.56	0.00	51.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.57
2010	33.95	0.00	50.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84.46
2011	36.22	0.00	51.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.19
2012	37.82	0.00	53.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91.77
2013	39.05	0.00	54.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.16
2014	39.41	0.00	54.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.61
2015	40.55	0.00	55.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	96.21
2016	41.94	0.00	57.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.68
2017	43.33	0.00	60.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	103.52
2018	44.77	0.00	62.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.62
2019	46.21	0.00	65.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	111.73
2020	47.74	0.00	68.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	116.12
PERCENTAGE CHANGES											
2007	1.74	0.00	26.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.76
2008	9.14	0.00	33.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.25
2009	3.27	0.00	-12.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-7.39
2010	7.56	0.00	-0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.29
2011	6.69	0.00	2.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.41
2012	4.42	0.00	3.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.06
2013	3.25	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51
2014	0.93	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49
2015	2.89	0.00	2.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.77
2016	3.42	0.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	4.67	0.00	13.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.03
2011-2016	2.98	0.00	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.48
2010-2020	3.47	0.00	3.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.23

All data are for the financial year ending in June of the year specified.

TABLE C.20 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY MANUFACTURING SECTOR - RIVERLAND

	FOOD, BEV. + TOBACCO	TEXTILES, CLOTHING AND FOOTWEAR	WOOD, AND FURNITURE	PAPER, PROD'S AND PRINTING + PUBLISHING	CHEMICAL, PETROLEUM AND COAL	NON-METALLIC MINERAL PRODUCTS	BASIC METAL PRODUCTS	FABRI-CATED METAL PRODUCTS	TRANSPORT EQUIPMENT	OTHER MACHINERY AND EQUIPMENT	MISCELL-ANEOUS MANUFA-CTURING	TOTAL MANUFA-CTURING
	ASIC 21	ASIC 23/24	ASIC 25	ASIC 26	ASIC 27	ASIC 28	ASIC 29	ASIC 31	ASIC 32	ASIC 33	ASIC 34	DIV C
UNIT	***** TERAJOULES *****											
2006	34.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.47
2007	43.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.76
2008	58.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.60
2009	51.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.01
2010	50.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.52
2011	51.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.97
2012	53.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.95
2013	54.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.11
2014	54.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.20
2015	55.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.66
2016	57.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.75
2017	60.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.18
2018	62.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.84
2019	65.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.52
2020	68.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.37
PERCENTAGE CHANGES												
2007	26.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.95
2008	33.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.91
2009	-12.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12.95
2010	-0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.97
2011	2.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88
2012	3.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.81
2013	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
2014	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
2015	2.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.68
2016	3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.75
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	13.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.96
2011-2016	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.13
2010-2020	3.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.07

All data are for the financial year ending in June of the year specified.

TABLE C.21 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY INDUSTRY SECTOR - SOUTH EAST

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	118.57	0.00	99.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	217.84
2007	82.85	0.00	90.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	173.79
2008	13.47	0.00	115.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.78
2009	0.00	0.00	136.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136.72
2010	0.00	0.00	131.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	131.23
2011	0.00	0.00	130.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.57
2012	0.00	0.00	131.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	131.10
2013	0.00	0.00	129.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.85
2014	0.00	0.00	126.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	126.10
2015	0.00	0.00	125.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125.35
2016	0.00	0.00	125.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125.96
2017	0.00	0.00	127.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	127.24
2018	0.00	0.00	128.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.85
2019	0.00	0.00	130.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.38
2020	0.00	0.00	132.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.13
PERCENTAGE CHANGES											
2007	-30.13	0.00	-8.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.22
2008	-83.74	0.00	26.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-25.90
2009	-100.00	0.00	18.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.17
2010	0.00	0.00	-4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.02
2011	0.00	0.00	-0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.50
2012	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
2013	0.00	0.00	-0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.95
2014	0.00	0.00	-2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.89
2015	0.00	0.00	-0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.60
2016	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	0.00	0.00	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-14.38
2011-2016	0.00	0.00	-0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.72
2010-2020	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07

All data are for the financial year ending in June of the year specified.

TABLE C.22 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY MANUFACTURING SECTOR - SOUTH EAST

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PRINTING + PUBLISHING ASIC 25	PAPER, PRODUCTS AND PRINTING ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL-ANEOUS MANUFA-CTURING ASIC 34	TOTAL MANUFA-CTURING DIV C
UNIT	***** TERAJOULES *****											
2006	21.00	0.00	60.39	17.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.27
2007	17.69	0.00	61.76	11.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.94
2008	26.62	0.00	73.05	15.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	115.31
2009	24.61	0.00	75.10	37.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136.72
2010	25.16	0.00	71.03	35.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	131.23
2011	26.34	0.00	69.64	34.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.57
2012	27.74	0.00	69.01	34.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	131.10
2013	28.25	0.00	67.97	33.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129.85
2014	28.90	0.00	65.29	31.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	126.10
2015	29.99	0.00	64.00	31.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125.35
2016	31.43	0.00	63.32	31.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125.96
2017	33.11	0.00	62.99	31.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	127.24
2018	34.94	0.00	62.77	31.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.85
2019	36.84	0.00	62.52	31.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.38
2020	38.86	0.00	62.26	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132.13
PERCENTAGE CHANGES												
2007	-15.76	0.00	2.27	-35.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-8.39
2008	50.48	0.00	18.28	36.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.80
2009	-7.55	0.00	2.81	136.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.57
2010	2.24	0.00	-5.42	-5.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.02
2011	4.69	0.00	-1.95	-1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.50
2012	5.29	0.00	-0.91	-0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
2013	1.87	0.00	-1.50	-2.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.95
2014	2.29	0.00	-3.94	-5.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.89
2015	3.78	0.00	-1.99	-1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.60
2016	4.80	0.00	-1.06	-0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	5.43	0.00	7.54	27.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.26
2011-2016	3.60	0.00	-1.89	-2.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.72
2010-2020	4.44	0.00	-1.31	-1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07

All data are for the financial year ending in June of the year specified.

TABLE C.23 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY INDUSTRY SECTOR - WHYALLA

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.39	0.00	9.39
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.55	0.00	9.55
2008	0.00	0.00	20.36	0.00	0.00	0.00	0.00	0.00	9.16	0.00	29.52
2009	0.00	0.00	6.28	0.00	0.00	0.00	0.00	0.00	8.72	0.00	15.00
2010	0.00	0.00	6.30	0.00	0.00	0.00	0.00	0.00	8.58	0.00	14.88
2011	0.00	0.00	6.33	0.00	0.00	0.00	0.00	0.00	8.45	0.00	14.78
2012	0.00	0.00	6.36	0.00	0.00	0.00	0.00	0.00	8.27	0.00	14.63
2013	0.00	0.00	6.36	0.00	0.00	0.00	0.00	0.00	8.07	0.00	14.43
2014	0.00	0.00	6.27	0.00	0.00	0.00	0.00	0.00	7.75	0.00	14.02
2015	0.00	0.00	6.18	0.00	0.00	0.00	0.00	0.00	7.46	0.00	13.64
2016	0.00	0.00	6.14	0.00	0.00	0.00	0.00	0.00	7.24	0.00	13.39
2017	0.00	0.00	6.14	0.00	0.00	0.00	0.00	0.00	7.08	0.00	13.22
2018	0.00	0.00	6.15	0.00	0.00	0.00	0.00	0.00	6.93	0.00	13.08
2019	0.00	0.00	6.16	0.00	0.00	0.00	0.00	0.00	6.78	0.00	12.94
2020	0.00	0.00	6.17	0.00	0.00	0.00	0.00	0.00	6.63	0.00	12.80
PERCENTAGE CHANGES											
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	0.00	1.70
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.08	0.00	209.11
2009	0.00	0.00	-69.16	0.00	0.00	0.00	0.00	0.00	-4.80	0.00	-49.19
2010	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	-1.63	0.00	-0.81
2011	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	-1.51	0.00	-0.68
2012	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	-2.08	0.00	-0.98
2013	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	-2.40	0.00	-1.37
2014	0.00	0.00	-1.34	0.00	0.00	0.00	0.00	0.00	-4.00	0.00	-2.83
2015	0.00	0.00	-1.49	0.00	0.00	0.00	0.00	0.00	-3.77	0.00	-2.75
2016	0.00	0.00	-0.61	0.00	0.00	0.00	0.00	0.00	-2.88	0.00	-1.85
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.44	0.00	16.90
2011-2016	0.00	0.00	-0.60	0.00	0.00	0.00	0.00	0.00	-3.03	0.00	-1.96
2010-2020	0.00	0.00	-0.21	0.00	0.00	0.00	0.00	0.00	-2.54	0.00	-1.49

All data are for the financial year ending in June of the year specified.

TABLE C.24 ENVESTRA - TARIFF D BLOCK GAS CONSUMPTION BY MANUFACTURING SECTOR - WHYALLA

	FOOD, BEV. + TOBACCO	TEXTILES, CLOTHING AND FOOTWEAR	WOOD, WOOD AND FURNITURE	PAPER, PROD'S PAPER PRINTING + PUBLISHING	CHEMICAL, PETROLEUM AND COAL	NON- METALLIC MINERAL PRODUCTS	BASIC METAL PRODUCTS	FABRI- CATED METAL PRODUCTS	TRANSPORT EQUIPMENT	OTHER MACHINERY AND EQUIPMENT	MISCELL -ANEOUS MANUFA- CTURING	TOTAL MANUFA- CTURING
	ASIC 21	ASIC 23/24	ASIC 25	ASIC 26	ASIC 27	ASIC 28	ASIC 29	ASIC 31	ASIC 32	ASIC 33	ASIC 34	DIV C
UNIT	***** TERAJOULES *****											
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	20.36	0.00	0.00	0.00	0.00	0.00	20.36
2009	0.00	0.00	0.00	0.00	0.00	6.28	0.00	0.00	0.00	0.00	0.00	6.28
2010	0.00	0.00	0.00	0.00	0.00	6.30	0.00	0.00	0.00	0.00	0.00	6.30
2011	0.00	0.00	0.00	0.00	0.00	6.33	0.00	0.00	0.00	0.00	0.00	6.33
2012	0.00	0.00	0.00	0.00	0.00	6.36	0.00	0.00	0.00	0.00	0.00	6.36
2013	0.00	0.00	0.00	0.00	0.00	6.36	0.00	0.00	0.00	0.00	0.00	6.36
2014	0.00	0.00	0.00	0.00	0.00	6.27	0.00	0.00	0.00	0.00	0.00	6.27
2015	0.00	0.00	0.00	0.00	0.00	6.18	0.00	0.00	0.00	0.00	0.00	6.18
2016	0.00	0.00	0.00	0.00	0.00	6.14	0.00	0.00	0.00	0.00	0.00	6.14
2017	0.00	0.00	0.00	0.00	0.00	6.14	0.00	0.00	0.00	0.00	0.00	6.14
2018	0.00	0.00	0.00	0.00	0.00	6.15	0.00	0.00	0.00	0.00	0.00	6.15
2019	0.00	0.00	0.00	0.00	0.00	6.16	0.00	0.00	0.00	0.00	0.00	6.16
2020	0.00	0.00	0.00	0.00	0.00	6.17	0.00	0.00	0.00	0.00	0.00	6.17
PERCENTAGE CHANGES												
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	-69.16	0.00	0.00	0.00	0.00	0.00	-69.16
2010	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.32
2011	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.45
2012	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.49
2013	0.00	0.00	0.00	0.00	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	-0.03
2014	0.00	0.00	0.00	0.00	0.00	-1.34	0.00	0.00	0.00	0.00	0.00	-1.34
2015	0.00	0.00	0.00	0.00	0.00	-1.49	0.00	0.00	0.00	0.00	0.00	-1.49
2016	0.00	0.00	0.00	0.00	0.00	-0.61	0.00	0.00	0.00	0.00	0.00	-0.61
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011-2016	0.00	0.00	0.00	0.00	0.00	-0.60	0.00	0.00	0.00	0.00	0.00	-0.60
2010-2020	0.00	0.00	0.00	0.00	0.00	-0.21	0.00	0.00	0.00	0.00	0.00	-0.21

All data are for the financial year ending in June of the year specified.

TABLE C.25 ENVESTRA - TARIFF D BLOCK MDQ BY INDUSTRY SECTOR - ADELAIDE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	*****					TJ	*****				
2006	1457.00	0.00	61167.00	72.00	0.00	76.00	1359.00	145.00	5102.00	2060.00	71438.00
2007	1499.00	0.00	60852.00	0.00	0.00	76.00	1359.00	145.00	5196.00	2155.00	71282.00
2008	2899.00	0.00	60965.00	72.00	0.00	76.00	1359.00	174.00	5228.00	2398.00	73171.00
2009	3018.00	0.00	54918.00	72.00	0.00	76.00	1564.00	174.00	4825.00	2405.00	67052.00
2010	3018.00	0.00	54918.00	72.00	0.00	76.00	1564.00	174.00	4825.00	2405.00	67052.00
2011	3078.15	0.00	55122.71	72.00	0.00	76.99	1586.73	173.35	4835.16	2432.66	67377.74
2012	3110.99	0.00	55732.09	72.00	0.00	78.03	1599.92	182.40	4773.02	2456.82	68005.27
2013	3129.05	0.00	54696.35	72.00	0.00	79.21	1588.88	191.34	4720.04	2479.61	66956.48
2014	3114.99	0.00	52708.89	72.00	0.00	78.94	1603.50	192.64	4589.20	2455.18	64815.33
2015	3126.69	0.00	52865.21	72.00	0.00	79.15	1607.88	193.02	4512.23	2434.45	64890.62
2016	3146.81	0.00	53634.46	72.00	0.00	79.87	1622.75	194.64	4462.25	2429.80	65642.58
2017	3165.83	0.00	54542.43	72.00	0.00	80.76	1640.91	196.67	4424.03	2429.61	66552.24
2018	3185.00	0.00	54466.87	72.00	0.00	81.75	1661.19	198.94	4390.80	2432.25	66488.78
2019	3202.92	0.00	55155.52	72.00	0.00	82.61	1679.10	200.93	4354.04	2430.85	67177.97
2020	3222.03	0.00	55945.88	72.00	0.00	83.61	1699.52	203.21	4320.37	2432.96	67979.58
PERCENTAGE CHANGES											
2007	2.88	0.00	-0.51	-100.00	0.00	0.00	0.00	0.00	1.84	4.61	-0.22
2008	93.40	0.00	0.19	0.00	0.00	0.00	0.00	20.00	0.62	11.28	2.65
2009	4.10	0.00	-9.92	0.00	0.00	0.00	15.08	0.00	-7.71	0.29	-8.36
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	1.99	0.00	0.37	0.00	0.00	1.30	1.45	-0.37	0.21	1.15	0.49
2012	1.07	0.00	1.11	0.00	0.00	1.36	0.83	5.22	-1.29	0.99	0.93
2013	0.58	0.00	-1.86	0.00	0.00	1.51	-0.69	4.90	-1.11	0.93	-1.54
2014	-0.45	0.00	-3.63	0.00	0.00	-0.34	0.92	0.68	-2.77	-0.99	-3.20
2015	0.38	0.00	0.30	0.00	0.00	0.26	0.27	0.20	-1.68	-0.84	0.12
2016	0.64	0.00	1.46	0.00	0.00	0.92	0.93	0.84	-1.11	-0.19	1.16
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	27.47	0.00	-3.53	0.00	0.00	0.00	4.79	6.27	-1.84	5.30	-2.09
2011-2016	0.44	0.00	-0.55	0.00	0.00	0.74	0.45	2.34	-1.59	-0.02	-0.52
2010-2020	0.66	0.00	0.19	0.00	0.00	0.96	0.83	1.56	-1.10	0.12	0.14

All data are for the financial year ending in June of the year specified.

TABLE C.26 ENVESTRA - TARIFF D BLOCK MDQ BY MANUFACTURING SECTOR - ADELAIDE

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND ASIC 25	PAPER, PAPER PRODUCTS PRINTING + PUBLISHING ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL- -ANEOUS MANUFA- CTURING ASIC 34	TOTAL MANUFA- CTURING DIV C	
UNIT	*****						TJ	*****					
2006	9603.00	0.00	735.00	407.00	833.00	34927.00	274.00	2404.00	7141.00	2359.00	2484.00	61167.00	
2007	9883.00	0.00	735.00	378.00	833.00	35064.00	395.00	1711.00	6959.00	2379.00	2515.00	60852.00	
2008	11148.00	0.00	695.00	386.00	906.00	35259.00	360.00	1671.00	5910.00	2146.00	2484.00	60965.00	
2009	10487.00	0.00	707.00	386.00	803.00	30760.00	305.00	1664.00	5277.00	2146.00	2383.00	54918.00	
2010	10487.00	0.00	707.00	386.00	803.00	30760.00	305.00	1664.00	5277.00	2146.00	2383.00	54918.00	
2011	10609.09	0.00	698.32	389.06	800.72	31084.79	297.87	1605.95	5156.46	2103.08	2377.38	55122.71	
2012	10804.58	0.00	694.75	393.75	805.02	31653.06	294.24	1559.65	5073.91	2067.39	2385.74	55732.09	
2013	10789.22	0.00	688.85	394.58	804.38	30858.56	288.50	1504.87	4970.04	2015.18	2382.16	54696.35	
2014	10735.51	0.00	672.55	387.08	787.16	29371.49	275.64	1424.41	4784.35	1930.05	2340.65	52708.89	
2015	10886.69	0.00	665.93	388.93	787.47	29594.96	271.51	1375.54	4670.16	1884.35	2339.67	52865.21	
2016	11106.77	0.00	662.83	394.15	793.52	30275.78	269.50	1338.34	4588.23	1852.57	2352.77	53634.46	
2017	11356.21	0.00	661.67	400.17	801.91	31029.20	268.16	1305.68	4524.25	1823.93	2371.26	54542.43	
2018	11623.29	0.00	661.14	406.86	811.41	30764.85	267.17	1275.48	4466.46	1797.83	2392.39	54466.87	
2019	11882.30	0.00	660.36	412.60	819.95	31283.74	265.72	1244.09	4407.47	1768.39	2410.91	55155.52	
2020	12157.70	0.00	659.61	419.34	829.33	31876.65	264.61	1214.85	4349.59	1742.57	2431.63	55945.88	
PERCENTAGE CHANGES													
2007	2.92	0.00	0.00	-7.13	0.00	0.39	44.16	-28.83	-2.55	0.85	1.25	-0.51	
2008	12.80	0.00	-5.44	2.12	8.76	0.56	-8.86	-2.34	-15.07	-9.79	-1.23	0.19	
2009	-5.93	0.00	1.73	0.00	-11.37	-12.76	-15.28	-0.42	-10.71	0.00	-4.07	-9.92	
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2011	1.16	0.00	-1.23	0.79	-0.28	1.06	-2.34	-3.49	-2.28	-2.00	-0.24	0.37	
2012	1.84	0.00	-0.51	1.21	0.54	1.83	-1.22	-2.88	-1.60	-1.70	0.35	1.11	
2013	-0.14	0.00	-0.85	0.21	-0.08	-2.51	-1.95	-3.51	-2.05	-2.53	-0.15	-1.86	
2014	-0.50	0.00	-2.37	-1.90	-2.14	-4.82	-4.46	-5.35	-3.74	-4.22	-1.74	-3.63	
2015	1.41	0.00	-0.98	0.48	0.04	0.76	-1.50	-3.43	-2.39	-2.37	-0.04	0.30	
2016	2.02	0.00	-0.47	1.34	0.77	2.30	-0.74	-2.70	-1.75	-1.69	0.56	1.46	
COMPOUND GROWTH RATE (PER CENT) -													
2006-2009	2.98	0.00	-1.29	-1.75	-1.22	-4.15	3.64	-11.54	-9.59	-3.11	-1.37	-3.53	
2011-2016	0.92	0.00	-1.04	0.26	-0.18	-0.53	-1.98	-3.58	-2.31	-2.50	-0.21	-0.55	
2010-2020	1.49	0.00	-0.69	0.83	0.32	0.36	-1.41	-3.10	-1.91	-2.06	0.20	0.19	

All data are for the financial year ending in June of the year specified.

TABLE C.27 ENVESTRA - TARIFF D BLOCK MDQ BY INDUSTRY SECTOR - PETERSBOROUGH

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	*****					TJ	*****				
2006	79.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.00
2007	79.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.00
2008	79.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.00
2009	119.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	119.00
2010	119.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	119.00
2011	119.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	119.96
2012	120.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	120.59
2013	121.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121.03
2014	120.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	120.85
2015	121.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121.01
2016	121.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121.44
2017	121.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121.87
2018	122.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	122.30
2019	122.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	122.72
2020	123.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	123.15
PERCENTAGE CHANGES											
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	50.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.63
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81
2012	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52
2013	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
2014	-0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.15
2015	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
2016	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	14.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.63
2011-2016	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
2010-2020	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34

All data are for the financial year ending in June of the year specified.

TABLE C.28 ENVESTRA - TARIFF D BLOCK MDQ BY MANUFACTURING SECTOR - PETERSBOROUGH

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PRINTING + PUBLISHING ASIC 25	PAPER, PETROLEUM AND COAL ASIC 26	CHEMICAL, AND ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	TJ	BASIC METAL PRODUCTS ASIC 29	FABRI- CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL- -ANEOUS MANUFA- CTURING ASIC 34	TOTAL MANUFA- CTURING DIV C
UNIT	*****						TJ	*****					
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PERCENTAGE CHANGES													
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPOUND GROWTH RATE (PER CENT) -													
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011-2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010-2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

All data are for the financial year ending in June of the year specified.

TABLE C.29 ENVESTRA - TARIFF D BLOCK MDQ BY INDUSTRY SECTOR - PORT PIRIE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	*****					TJ	*****				
2006	0.00	0.00	3597.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3597.00
2007	0.00	0.00	3281.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3281.00
2008	0.00	0.00	3281.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3281.00
2009	0.00	0.00	3281.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3281.00
2010	0.00	0.00	3281.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3281.00
2011	0.00	0.00	3278.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3278.94
2012	0.00	0.00	3290.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3290.60
2013	0.00	0.00	3286.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3286.26
2014	0.00	0.00	3233.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3233.57
2015	0.00	0.00	3213.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3213.48
2016	0.00	0.00	3214.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3214.59
2017	0.00	0.00	3227.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3227.20
2018	0.00	0.00	3243.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3243.79
2019	0.00	0.00	3258.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3258.70
2020	0.00	0.00	3274.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3274.35
PERCENTAGE CHANGES											
2007	0.00	0.00	-8.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-8.79
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	-0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.06
2012	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
2013	0.00	0.00	-0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.13
2014	0.00	0.00	-1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.60
2015	0.00	0.00	-0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.62
2016	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	0.00	0.00	-3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.02
2011-2016	0.00	0.00	-0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.40
2010-2020	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02

All data are for the financial year ending in June of the year specified.

TABLE C.30 ENVESTRA - TARIFF D BLOCK MDQ BY MANUFACTURING SECTOR - PORT PIRIE

	FOOD, BEV. + TOBACCO	TEXTILES, CLOTHING AND FOOTWEAR	WOOD, WOOD AND FURNITURE	PAPER, PAPER PRODUCTS AND PRINTING + PUBLISHING	CHEMICAL, PETROLEUM AND COAL	NON-METALLIC MINERAL PRODUCTS	BASIC METAL PRODUCTS	FABRI-CATED METAL PRODUCTS	TRANSPORT EQUIPMENT	OTHER MACHINERY AND EQUIPMENT	MISCELL-ANEOUS MANUFA-CTURING	TOTAL MANUFA-CTURING	
	ASIC 21	ASIC 23/24	ASIC 25	ASIC 26	ASIC 27	ASIC 28	ASIC 29	ASIC 31	ASIC 32	ASIC 33	ASIC 34	DIV C	
UNIT	*****						TJ	*****					
2006	316.00	0.00	0.00	0.00	0.00	0.00	3281.00	0.00	0.00	0.00	0.00	3597.00	
2007	0.00	0.00	0.00	0.00	0.00	0.00	3281.00	0.00	0.00	0.00	0.00	3281.00	
2008	0.00	0.00	0.00	0.00	0.00	0.00	3281.00	0.00	0.00	0.00	0.00	3281.00	
2009	0.00	0.00	0.00	0.00	0.00	0.00	3281.00	0.00	0.00	0.00	0.00	3281.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	3281.00	0.00	0.00	0.00	0.00	3281.00	
2011	0.00	0.00	0.00	0.00	0.00	0.00	3278.94	0.00	0.00	0.00	0.00	3278.94	
2012	0.00	0.00	0.00	0.00	0.00	0.00	3290.60	0.00	0.00	0.00	0.00	3290.60	
2013	0.00	0.00	0.00	0.00	0.00	0.00	3286.26	0.00	0.00	0.00	0.00	3286.26	
2014	0.00	0.00	0.00	0.00	0.00	0.00	3233.57	0.00	0.00	0.00	0.00	3233.57	
2015	0.00	0.00	0.00	0.00	0.00	0.00	3213.48	0.00	0.00	0.00	0.00	3213.48	
2016	0.00	0.00	0.00	0.00	0.00	0.00	3214.59	0.00	0.00	0.00	0.00	3214.59	
2017	0.00	0.00	0.00	0.00	0.00	0.00	3227.20	0.00	0.00	0.00	0.00	3227.20	
2018	0.00	0.00	0.00	0.00	0.00	0.00	3243.79	0.00	0.00	0.00	0.00	3243.79	
2019	0.00	0.00	0.00	0.00	0.00	0.00	3258.70	0.00	0.00	0.00	0.00	3258.70	
2020	0.00	0.00	0.00	0.00	0.00	0.00	3274.35	0.00	0.00	0.00	0.00	3274.35	
PERCENTAGE CHANGES													
2007	-100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-8.79	
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2011	0.00	0.00	0.00	0.00	0.00	0.00	-0.06	0.00	0.00	0.00	0.00	-0.06	
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.36	
2013	0.00	0.00	0.00	0.00	0.00	0.00	-0.13	0.00	0.00	0.00	0.00	-0.13	
2014	0.00	0.00	0.00	0.00	0.00	0.00	-1.60	0.00	0.00	0.00	0.00	-1.60	
2015	0.00	0.00	0.00	0.00	0.00	0.00	-0.62	0.00	0.00	0.00	0.00	-0.62	
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03	
COMPOUND GROWTH RATE (PER CENT) -													
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.02	
2011-2016	0.00	0.00	0.00	0.00	0.00	0.00	-0.40	0.00	0.00	0.00	0.00	-0.40	
2010-2020	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00	0.00	0.00	-0.02	

All data are for the financial year ending in June of the year specified.

TABLE C.31 ENVESTRA - TARIFF D BLOCK MDQ BY INDUSTRY SECTOR - RIVERLAND

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	*****					TJ	*****				
2006	130.00	0.00	160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	290.00
2007	130.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	380.00
2008	142.00	0.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	409.00
2009	157.00	0.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	424.00
2010	157.00	0.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	424.00
2011	162.69	0.00	271.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	433.90
2012	166.61	0.00	276.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	443.45
2013	169.56	0.00	277.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	446.86
2014	170.43	0.00	277.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	447.98
2015	173.13	0.00	281.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	454.75
2016	176.36	0.00	287.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	463.75
2017	179.56	0.00	294.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	473.56
2018	182.82	0.00	301.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	483.89
2019	186.04	0.00	308.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	494.08
2020	189.40	0.00	315.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	504.76
PERCENTAGE CHANGES											
2007	0.00	0.00	56.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.03
2008	9.23	0.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.63
2009	10.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.67
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	3.63	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33
2012	2.41	0.00	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20
2013	1.77	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77
2014	0.51	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
2015	1.58	0.00	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51
2016	1.87	0.00	2.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.98
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	6.49	0.00	18.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
2011-2016	1.63	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34
2010-2020	1.89	0.00	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76

All data are for the financial year ending in June of the year specified.

TABLE C.32 ENVESTRA - TARIFF D BLOCK MDQ BY MANUFACTURING SECTOR - RIVERLAND

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PRINTING + PUBLISHING ASIC 25	PAPER, PETROLEUM AND COAL ASIC 26	CHEMICAL, AND ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	TJ	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL- -ANEOUS MANUFA- CTURING ASIC 34	TOTAL MANUFA- CTURING DIV C	
UNIT	*****						TJ	*****						
2006	160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00	
2007	250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	250.00	
2008	267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	267.00	
2009	267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	267.00	
2010	267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	267.00	
2011	271.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	271.20	
2012	276.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	276.84	
2013	277.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	277.30	
2014	277.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	277.55	
2015	281.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	281.62	
2016	287.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	287.38	
2017	294.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	294.00	
2018	301.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	301.07	
2019	308.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	308.05	
2020	315.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	315.36	
PERCENTAGE CHANGES														
2007	56.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56.25	
2008	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.80	
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2011	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	
2012	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08	
2013	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	
2014	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	
2015	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	
2016	2.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.05	
COMPOUND GROWTH RATE (PER CENT) -														
2006-2009	18.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.61	
2011-2016	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17	
2010-2020	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68	

All data are for the financial year ending in June of the year specified.

TABLE C.33 ENVESTRA - TARIFF D BLOCK MDQ BY INDUSTRY SECTOR - SOUTH EAST

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	*****					TJ	*****				
2006	617.00	0.00	734.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1351.00
2007	617.00	0.00	734.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1351.00
2008	0.00	0.00	893.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	893.00
2009	0.00	0.00	898.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	898.00
2010	0.00	0.00	898.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	898.00
2011	0.00	0.00	894.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	894.33
2012	0.00	0.00	895.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	895.01
2013	0.00	0.00	888.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	888.28
2014	0.00	0.00	869.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	869.59
2015	0.00	0.00	864.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	864.73
2016	0.00	0.00	865.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	865.62
2017	0.00	0.00	868.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	868.82
2018	0.00	0.00	873.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	873.17
2019	0.00	0.00	876.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	876.62
2020	0.00	0.00	881.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	881.00
PERCENTAGE CHANGES											
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	-100.00	0.00	21.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-33.90
2009	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	-0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.41
2012	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
2013	0.00	0.00	-0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.75
2014	0.00	0.00	-2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.10
2015	0.00	0.00	-0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.56
2016	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	0.00	0.00	6.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12.73
2011-2016	0.00	0.00	-0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.65
2010-2020	0.00	0.00	-0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.19

All data are for the financial year ending in June of the year specified.

TABLE C.34 ENVESTRA - TARIFF D BLOCK MDQ BY MANUFACTURING SECTOR - SOUTH EAST

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PRINTING + PUBLISHING ASIC 25	PAPER, PETROLEUM AND COAL ASIC 26	CHEMICAL, AND ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI- CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL- -ANEOUS MANUFA- CTURING ASIC 34	TOTAL MANUFA- CTURING DIV C	
UNIT	*****						TJ	*****					
2006	83.00	0.00	294.00	357.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	734.00	
2007	83.00	0.00	294.00	357.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	734.00	
2008	145.00	0.00	391.00	357.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	893.00	
2009	145.00	0.00	396.00	357.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	898.00	
2010	145.00	0.00	396.00	357.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	898.00	
2011	148.70	0.00	391.72	353.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	894.33	
2012	152.98	0.00	389.76	352.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	895.01	
2013	154.54	0.00	386.53	347.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	888.28	
2014	156.47	0.00	378.08	335.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	869.59	
2015	159.70	0.00	373.93	331.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	864.73	
2016	163.87	0.00	371.74	330.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	865.62	
2017	168.63	0.00	370.67	329.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	868.82	
2018	173.69	0.00	369.96	329.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	873.17	
2019	178.83	0.00	369.15	328.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	876.62	
2020	184.15	0.00	368.33	328.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	881.00	
PERCENTAGE CHANGES													
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2008	74.70	0.00	32.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.66	
2009	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2011	2.55	0.00	-1.08	-0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.41	
2012	2.87	0.00	-0.50	-0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	
2013	1.02	0.00	-0.83	-1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.75	
2014	1.25	0.00	-2.18	-3.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.10	
2015	2.06	0.00	-1.10	-1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.56	
2016	2.61	0.00	-0.59	-0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	
COMPOUND GROWTH RATE (PER CENT) -													
2006-2009	20.44	0.00	10.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.95	
2011-2016	1.96	0.00	-1.04	-1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.65	
2010-2020	2.42	0.00	-0.72	-0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.19	

All data are for the financial year ending in June of the year specified.

TABLE C.35 ENVESTRA - TARIFF D BLOCK MDQ BY INDUSTRY SECTOR - WHYALLA

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF	
UNIT	*****					TJ	*****					
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.00	0.00	57.00	
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.00	0.00	57.00	
2008	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	57.00	0.00	207.00	
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00	50.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00	50.00	
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.58	0.00	49.58	
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.01	0.00	49.01	
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.36	0.00	48.36	
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.29	0.00	47.29	
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.30	0.00	46.30	
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.56	0.00	45.56	
2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.98	0.00	44.98	
2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.45	0.00	44.45	
2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.92	0.00	43.92	
2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.40	0.00	43.40	
PERCENTAGE CHANGES												
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	263.16	
2009	0.00	0.00	-100.00	0.00	0.00	0.00	0.00	0.00	-12.28	0.00	-75.85	
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.84	0.00	-0.84	
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.15	0.00	-1.15	
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.33	0.00	-1.33	
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.22	0.00	-2.22	
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.09	0.00	-2.09	
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.59	0.00	-1.59	
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.27	0.00	-4.27	
2011-2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.68	0.00	-1.68	
2010-2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.41	0.00	-1.41	

All data are for the financial year ending in June of the year specified.

TABLE C.36 ENVESTRA - TARIFF D BLOCK MDQ BY MANUFACTURING SECTOR - WHYALLA

	FOOD, BEV. + TOBACCO	TEXTILES, CLOTHING AND FOOTWEAR	WOOD, WOOD AND FURNITURE	PAPER, PROD'S PAPER PRINTING + PUBLISHING	CHEMICAL, PETROLEUM AND COAL	NON- METALLIC MINERAL PRODUCTS	BASIC METAL PRODUCTS	FABRI- CATED METAL PRODUCTS	TRANSPORT EQUIPMENT	OTHER MACHINERY AND EQUIPMENT	MISCELL -ANEOUS MANUFA- CTURING	TOTAL MANUFA- CTURING	
	ASIC 21	ASIC 23/24	ASIC 25	ASIC 26	ASIC 27	ASIC 28	ASIC 29	ASIC 31	ASIC 32	ASIC 33	ASIC 34	DIV C	
UNIT	*****						TJ	*****					
2006	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2008	0.00	0.00	0.00	0.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	150.00	
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PERCENTAGE CHANGES													
2007	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2009	0.00	0.00	0.00	0.00	0.00	0.00	-100.00	0.00	0.00	0.00	0.00	-100.00	
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
COMPOUND GROWTH RATE (PER CENT) -													
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2011-2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2010-2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

All data are for the financial year ending in June of the year specified.

Appendix D

Adelaide Zones, energy, customers and MDQ by industry

TABLE D.1 GAS TRANSMISSION SYSTEM - TARIFF D BLOCK GAS CONSUMPTION BY INDUSTRY SECTOR - CENTRAL ADELAIDE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	0.00	0.00	1399.15	0.00	0.00	10.62	163.17	0.00	584.98	232.93	2390.85
2007	0.00	0.00	1319.11	0.00	0.00	4.57	191.86	0.00	539.66	231.35	2286.55
2008	0.00	0.00	1349.66	0.00	0.00	5.10	194.75	0.00	526.43	219.09	2295.03
2009	0.00	0.00	1311.17	0.00	0.00	6.31	201.59	0.00	512.14	220.09	2251.30
2010	0.00	0.00	1205.64	0.00	0.00	6.43	204.54	0.00	512.89	227.18	2156.68
2011	0.00	0.00	1220.63	0.00	0.00	6.59	211.45	0.00	517.79	233.53	2189.99
2012	0.00	0.00	1236.84	0.00	0.00	6.75	215.38	0.00	505.82	239.20	2203.99
2013	0.00	0.00	1186.61	0.00	0.00	6.94	211.95	0.00	496.54	244.93	2146.97
2014	0.00	0.00	1123.84	0.00	0.00	6.89	217.52	0.00	470.95	240.96	2060.17
2015	0.00	0.00	1161.39	0.00	0.00	6.93	220.00	0.00	457.94	237.94	2084.19
2016	0.00	0.00	1202.46	0.00	0.00	7.04	225.31	0.00	450.13	237.95	2122.90
2017	0.00	0.00	1269.48	0.00	0.00	7.19	231.35	0.00	444.36	238.61	2190.98
2018	0.00	0.00	1305.51	0.00	0.00	7.35	238.06	0.00	439.52	239.78	2230.22
2019	0.00	0.00	1356.97	0.00	0.00	7.49	244.03	0.00	433.89	240.06	2282.44
2020	0.00	0.00	1417.20	0.00	0.00	7.65	250.97	0.00	428.98	241.14	2345.94
PERCENTAGE CHANGES											
2007	0.00	0.00	-5.72	0.00	0.00	-56.97	17.58	0.00	-7.75	-0.68	-4.36
2008	0.00	0.00	2.32	0.00	0.00	11.60	1.51	0.00	-2.45	-5.30	0.37
2009	0.00	0.00	-2.85	0.00	0.00	23.73	3.51	0.00	-2.71	0.46	-1.91
2010	0.00	0.00	-8.05	0.00	0.00	1.97	1.46	0.00	0.15	3.22	-4.20
2011	0.00	0.00	1.24	0.00	0.00	2.38	3.38	0.00	0.96	2.80	1.54
2012	0.00	0.00	1.33	0.00	0.00	2.48	1.86	0.00	-2.31	2.43	0.64
2013	0.00	0.00	-4.06	0.00	0.00	2.76	-1.60	0.00	-1.83	2.40	-2.59
2014	0.00	0.00	-5.29	0.00	0.00	-0.62	2.63	0.00	-5.15	-1.62	-4.04
2015	0.00	0.00	3.34	0.00	0.00	0.48	1.14	0.00	-2.76	-1.25	1.17
2016	0.00	0.00	3.54	0.00	0.00	1.67	2.42	0.00	-1.70	0.01	1.86
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	0.00	0.00	-2.14	0.00	0.00	-15.93	7.30	0.00	-4.34	-1.87	-1.98
2011-2016	0.00	0.00	-0.30	0.00	0.00	1.35	1.28	0.00	-2.76	0.38	-0.62
2010-2020	0.00	0.00	1.63	0.00	0.00	1.75	2.07	0.00	-1.77	0.60	0.84

All data are for the financial year ending in June of the year specified.

TABLE D.2 GAS TRANSMISSION SYSTEM - TARIFF D BLOCK GAS CONSUMPTION BY MANUFACTURING SECTOR - CENTRAL ADELAIDE

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PRINTING + PUBLISHING ASIC 25	PAPER, PRODUCTS ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL-ANEOUS MANUFA-CTURING ASIC 34	TOTAL MANUFA-CTURING DIV C
UNIT	***** TERAJOULES *****											
2006	421.11	0.00	31.98	15.08	0.00	626.52	0.00	275.25	29.21	0.00	0.00	1399.15
2007	442.32	0.00	32.10	0.00	0.00	639.09	0.00	182.12	23.48	0.00	0.00	1319.11
2008	458.61	0.00	33.78	0.00	0.00	669.88	0.00	168.08	19.31	0.00	0.00	1349.66
2009	468.60	0.00	31.02	0.00	0.00	649.51	0.00	146.52	15.52	0.00	0.00	1311.17
2010	454.33	0.00	28.34	0.00	0.00	578.04	0.00	131.09	13.82	0.00	0.00	1205.64
2011	463.95	0.00	27.52	0.00	0.00	591.99	0.00	123.98	13.17	0.00	0.00	1220.63
2012	479.61	0.00	27.20	0.00	0.00	598.47	0.00	118.76	12.78	0.00	0.00	1236.84
2013	478.35	0.00	26.70	0.00	0.00	556.76	0.00	112.48	12.30	0.00	0.00	1186.61
2014	473.93	0.00	25.35	0.00	0.00	510.18	0.00	102.93	11.42	0.00	0.00	1123.84
2015	486.18	0.00	24.94	0.00	0.00	540.97	0.00	98.24	11.03	0.00	0.00	1161.39
2016	504.25	0.00	24.78	0.00	0.00	567.75	0.00	94.90	10.77	0.00	0.00	1202.46
2017	525.07	0.00	24.75	0.00	0.00	617.15	0.00	91.95	10.56	0.00	0.00	1269.48
2018	547.78	0.00	24.75	0.00	0.00	633.35	0.00	89.27	10.37	0.00	0.00	1305.51
2019	570.21	0.00	24.73	0.00	0.00	665.48	0.00	86.39	10.17	0.00	0.00	1356.97
2020	594.51	0.00	24.72	0.00	0.00	704.19	0.00	83.82	9.98	0.00	0.00	1417.20
PERCENTAGE CHANGES												
2007	5.04	0.00	0.38	-100.00	0.00	2.01	0.00	-33.83	-19.62	0.00	0.00	-5.72
2008	3.68	0.00	5.23	0.00	0.00	4.82	0.00	-7.71	-17.76	0.00	0.00	2.32
2009	2.18	0.00	-8.17	0.00	0.00	-3.04	0.00	-12.83	-19.63	0.00	0.00	-2.85
2010	-3.04	0.00	-8.64	0.00	0.00	-11.00	0.00	-10.53	-10.94	0.00	0.00	-8.05
2011	2.12	0.00	-2.90	0.00	0.00	2.41	0.00	-5.42	-4.75	0.00	0.00	1.24
2012	3.37	0.00	-1.16	0.00	0.00	1.09	0.00	-4.21	-2.94	0.00	0.00	1.33
2013	-0.26	0.00	-1.81	0.00	0.00	-6.97	0.00	-5.29	-3.72	0.00	0.00	-4.06
2014	-0.92	0.00	-5.06	0.00	0.00	-8.37	0.00	-8.49	-7.18	0.00	0.00	-5.29
2015	2.58	0.00	-1.61	0.00	0.00	6.04	0.00	-4.55	-3.39	0.00	0.00	3.34
2016	3.72	0.00	-0.65	0.00	0.00	4.95	0.00	-3.41	-2.41	0.00	0.00	3.54
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	3.63	0.00	-1.01	0.00	0.00	1.21	0.00	-18.96	-19.01	0.00	0.00	-2.14
2011-2016	1.68	0.00	-2.07	0.00	0.00	-0.83	0.00	-5.21	-3.94	0.00	0.00	-0.30
2010-2020	2.73	0.00	-1.36	0.00	0.00	1.99	0.00	-4.37	-3.20	0.00	0.00	1.63

All data are for the financial year ending in June of the year specified.

TABLE D.3 GAS TRANSMISSION SYSTEM - TARIFF D BLOCK GAS CONSUMPTION BY INDUSTRY SECTOR - NORTHERN ADELAIDE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	278.91	0.00	10772.75	0.01	0.00	0.00	1.89	13.37	184.97	164.93	11416.83
2007	243.15	0.00	10844.33	0.00	0.00	0.00	7.43	12.91	178.76	157.09	11443.67
2008	261.96	0.00	10312.42	0.00	0.00	0.00	8.12	20.13	155.11	163.36	10921.10
2009	353.17	0.00	9745.53	0.01	0.00	0.00	8.28	17.70	188.04	162.28	10475.01
2010	368.39	0.00	9311.97	0.01	0.00	0.00	8.30	17.48	186.64	164.39	10057.18
2011	381.85	0.00	9396.70	0.01	0.00	0.00	8.34	17.37	186.48	166.50	10157.24
2012	389.29	0.00	9603.73	0.01	0.00	0.00	8.38	19.05	181.80	168.30	10370.56
2013	393.41	0.00	9343.52	0.01	0.00	0.00	8.37	20.78	177.67	169.71	10113.47
2014	390.20	0.00	8819.91	0.01	0.00	0.00	8.26	21.04	168.65	166.40	9574.47
2015	392.87	0.00	8864.47	0.01	0.00	0.00	8.14	21.11	163.01	163.32	9612.93
2016	397.48	0.00	9095.49	0.01	0.00	0.00	8.09	21.44	159.20	162.05	9843.75
2017	401.86	0.00	9345.40	0.01	0.00	0.00	8.08	21.84	156.22	161.48	10094.89
2018	406.30	0.00	9306.53	0.01	0.00	0.00	8.09	22.31	153.59	161.22	10058.03
2019	410.46	0.00	9504.74	0.01	0.00	0.00	8.10	22.71	150.79	160.63	10257.45
2020	414.93	0.00	9730.61	0.01	0.00	0.00	8.11	23.18	148.18	160.31	10485.33
PERCENTAGE CHANGES											
2007	-12.82	0.00	0.66	-100.00	0.00	0.00	293.12	-3.44	-3.36	-4.75	0.24
2008	7.74	0.00	-4.90	0.00	0.00	0.00	9.29	55.93	-13.23	3.99	-4.57
2009	34.82	0.00	-5.50	0.00	0.00	0.00	1.97	-12.07	21.23	-0.66	-4.08
2010	4.31	0.00	-4.45	0.00	0.00	0.00	0.21	-1.22	-0.74	1.30	-3.99
2011	3.65	0.00	0.91	0.00	0.00	0.00	0.49	-0.68	-0.09	1.28	0.99
2012	1.95	0.00	2.20	0.00	0.00	0.00	0.48	9.69	-2.51	1.08	2.10
2013	1.06	0.00	-2.71	0.00	0.00	0.00	-0.10	9.09	-2.27	0.84	-2.48
2014	-0.82	0.00	-5.60	0.00	0.00	0.00	-1.25	1.24	-5.08	-1.95	-5.33
2015	0.68	0.00	0.51	0.00	0.00	0.00	-1.52	0.36	-3.34	-1.85	0.40
2016	1.17	0.00	2.61	0.00	0.00	0.00	-0.66	1.54	-2.34	-0.77	2.40
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	8.19	0.00	-3.29	0.00	0.00	0.00	63.63	9.80	0.55	-0.54	-2.83
2011-2016	0.81	0.00	-0.65	0.00	0.00	0.00	-0.61	4.30	-3.11	-0.54	-0.63
2010-2020	1.20	0.00	0.44	0.00	0.00	0.00	-0.23	2.86	-2.28	-0.25	0.42

All data are for the financial year ending in June of the year specified.

TABLE D.4 GAS TRANSMISSION SYSTEM - TARIFF BLOCK D GAS CONSUMPTION BY MANUFACTURING SECTOR -NORTHERN ADELAIDE

	FOOD, BEV. + TOBACCO AND FOOTWEAR	TEXTILES, CLOTHING AND FURNITURE	WOOD, PROD'S AND PRINTING + PUBLISHING	PAPER, PAPER PRODUCTS	CHEMICAL, PETROLEUM AND COAL	NON-METALLIC MINERAL PRODUCTS	BASIC METAL PRODUCTS	FABRI-CATED METAL PRODUCTS	TRANSPORT EQUIPMENT	OTHER MACHINERY AND EQUIPMENT	MISCELL-ANEOUS MANUFA-CTURING	TOTAL MANUFA-CTURING	
	ASIC 21	ASIC 23/24	ASIC 25	ASIC 26	ASIC 27	ASIC 28	ASIC 29	ASIC 31	ASIC 32	ASIC 33	ASIC 34	DIV C	
UNIT	*****						TERAJOULES	*****					
2006	1336.20	0.00	107.77	57.09	48.69	7175.92	15.66	155.28	903.69	528.57	443.88	10772.75	
2007	1399.41	0.00	106.37	80.39	71.29	7152.35	25.74	140.01	943.45	505.51	419.81	10844.33	
2008	1465.68	0.00	103.69	80.74	69.94	6673.09	30.23	140.80	822.13	482.52	443.60	10312.42	
2009	1492.88	0.00	91.69	66.05	67.74	6517.39	20.54	127.63	513.45	408.38	439.78	9745.53	
2010	1448.96	0.00	86.34	64.06	64.26	6234.33	18.49	118.78	479.50	377.26	419.91	9311.97	
2011	1479.86	0.00	84.63	64.81	64.00	6326.41	17.83	113.17	463.93	363.61	418.38	9396.70	
2012	1529.73	0.00	83.92	65.96	64.50	6506.73	17.50	108.41	453.34	352.40	421.17	9603.73	
2013	1525.77	0.00	82.71	66.17	64.43	6287.73	16.98	103.06	440.06	336.35	420.19	9343.52	
2014	1512.25	0.00	79.40	64.33	62.41	5854.80	15.85	95.86	416.56	311.01	407.36	8819.91	
2015	1550.93	0.00	77.96	64.78	62.45	5895.35	15.49	90.62	402.17	297.66	406.98	8864.47	
2016	1608.10	0.00	77.27	66.06	63.15	6087.49	15.31	86.54	391.98	288.50	411.04	9095.49	
2017	1674.08	0.00	77.00	67.55	64.14	6283.07	15.19	83.04	384.11	280.36	416.86	9345.40	
2018	1746.04	0.00	76.86	69.22	65.26	6180.60	15.10	79.82	377.05	273.03	423.56	9306.53	
2019	1817.15	0.00	76.68	70.66	66.27	6318.14	14.96	76.64	369.90	264.89	429.50	9504.74	
2020	1894.12	0.00	76.50	72.36	67.39	6474.93	14.86	73.63	362.92	257.82	436.16	9730.61	
PERCENTAGE CHANGES													
2007	4.73	0.00	-1.30	40.81	46.42	-0.33	64.37	-9.83	4.40	-4.36	-5.42	0.66	
2008	4.74	0.00	-2.52	0.44	-1.89	-6.70	17.44	0.56	-12.86	-4.55	5.67	-4.90	
2009	1.86	0.00	-11.57	-18.19	-3.15	-2.33	-32.05	-9.35	-37.55	-15.37	-0.86	-5.50	
2010	-2.94	0.00	-5.83	-3.01	-5.13	-4.34	-9.98	-6.94	-6.61	-7.62	-4.52	-4.45	
2011	2.13	0.00	-1.99	1.17	-0.42	1.48	-3.55	-4.72	-3.25	-3.62	-0.37	0.91	
2012	3.37	0.00	-0.84	1.78	0.79	2.85	-1.89	-4.20	-2.28	-3.08	0.67	2.20	
2013	-0.26	0.00	-1.44	0.31	-0.12	-3.37	-2.96	-4.94	-2.93	-4.55	-0.23	-2.71	
2014	-0.89	0.00	-4.00	-2.78	-3.13	-6.89	-6.64	-6.99	-5.34	-7.54	-3.05	-5.60	
2015	2.56	0.00	-1.82	0.70	0.06	0.69	-2.27	-5.46	-3.45	-4.29	-0.09	0.51	
2016	3.69	0.00	-0.89	1.98	1.13	3.26	-1.16	-4.51	-2.53	-3.08	1.00	2.61	
COMPOUND GROWTH RATE (PER CENT) -													
2006-2009	3.77	0.00	-5.24	4.98	11.64	-3.16	9.46	-6.33	-17.18	-8.24	-0.31	-3.29	
2011-2016	1.68	0.00	-1.80	0.38	-0.27	-0.77	-3.00	-5.22	-3.31	-4.52	-0.35	-0.65	
2010-2020	2.72	0.00	-1.20	1.23	0.48	0.38	-2.16	-4.67	-2.75	-3.74	0.38	0.44	

All data are for the financial year ending in June of the year specified.

TABLE D.5 GAS TRANSMISSION SYSTEM - TARIFF D BLOCK GAS CONSUMPTION BY INDUSTRY SECTOR - SOUTHERN ADELAIDE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	10.64	0.00	420.07	0.00	0.00	0.00	153.13	0.00	179.03	12.70	775.57
2007	13.86	0.00	367.75	0.00	0.00	0.00	124.98	0.00	189.57	14.60	710.76
2008	12.21	0.00	317.49	0.00	0.00	0.00	114.95	0.00	202.18	21.31	668.14
2009	11.73	0.00	159.58	0.00	0.00	0.00	88.75	0.00	155.66	9.03	424.75
2010	12.23	0.00	147.10	0.00	0.00	0.00	89.20	0.00	153.47	8.98	410.97
2011	12.68	0.00	143.15	0.00	0.00	0.00	90.28	0.00	151.99	8.93	407.03
2012	12.92	0.00	141.24	0.00	0.00	0.00	91.01	0.00	148.74	8.87	402.78
2013	13.06	0.00	137.72	0.00	0.00	0.00	90.52	0.00	145.35	8.78	395.43
2014	12.95	0.00	130.21	0.00	0.00	0.00	90.27	0.00	139.12	8.51	381.06
2015	13.04	0.00	127.77	0.00	0.00	0.00	89.49	0.00	134.19	8.25	372.73
2016	13.19	0.00	126.85	0.00	0.00	0.00	89.59	0.00	130.67	8.08	368.37
2017	13.34	0.00	126.54	0.00	0.00	0.00	90.15	0.00	127.93	7.95	365.91
2018	13.48	0.00	126.56	0.00	0.00	0.00	90.88	0.00	125.49	7.83	364.24
2019	13.62	0.00	126.38	0.00	0.00	0.00	91.53	0.00	123.01	7.72	362.26
2020	13.77	0.00	126.51	0.00	0.00	0.00	92.23	0.00	120.61	7.60	360.73
PERCENTAGE CHANGES											
2007	30.26	0.00	-12.46	0.00	0.00	0.00	-18.38	0.00	5.89	14.96	-8.36
2008	-11.90	0.00	-13.67	0.00	0.00	0.00	-8.03	0.00	6.65	45.96	-6.00
2009	-3.93	0.00	-49.74	0.00	0.00	0.00	-22.79	0.00	-23.01	-57.63	-36.43
2010	4.28	0.00	-7.82	0.00	0.00	0.00	0.51	0.00	-1.41	-0.57	-3.24
2011	3.63	0.00	-2.68	0.00	0.00	0.00	1.21	0.00	-0.96	-0.57	-0.96
2012	1.94	0.00	-1.34	0.00	0.00	0.00	0.81	0.00	-2.14	-0.65	-1.04
2013	1.05	0.00	-2.49	0.00	0.00	0.00	-0.54	0.00	-2.28	-1.03	-1.83
2014	-0.81	0.00	-5.46	0.00	0.00	0.00	-0.28	0.00	-4.28	-3.01	-3.63
2015	0.68	0.00	-1.87	0.00	0.00	0.00	-0.86	0.00	-3.55	-3.08	-2.19
2016	1.17	0.00	-0.72	0.00	0.00	0.00	0.11	0.00	-2.62	-2.12	-1.17
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	3.30	0.00	-27.58	0.00	0.00	0.00	-16.62	0.00	-4.56	-10.75	-18.18
2011-2016	0.80	0.00	-2.39	0.00	0.00	0.00	-0.15	0.00	-2.98	-1.98	-1.98
2010-2020	1.19	0.00	-1.50	0.00	0.00	0.00	0.33	0.00	-2.38	-1.65	-1.30

All data are for the financial year ending in June of the year specified.

TABLE D.6 GAS TRANSMISSION SYSTEM - TARIFF BLOCK D GAS CUSTOMERS BY MANUFACTURING SECTOR - SOUTHERN ADELAIDE

	FOOD, BEV. + TOBACCO AND FOOTWEAR	TEXTILES, CLOTHING AND FURNITURE	WOOD, PROD'S AND PRINTING + PUBLISHING	PAPER, PETROLEUM AND COAL	CHEMICAL, METALLIC MINERAL PRODUCTS	NON-METALLIC MINERAL PRODUCTS	BASIC METAL PRODUCTS	FABRI-CATED METAL PRODUCTS	TRANSPORT EQUIPMENT	OTHER MACHINERY AND EQUIPMENT	MISCELL-ANEOUS MANUFA-CTURING	TOTAL MANUFA-CTURING
	ASIC 21	ASIC 23/24	ASIC 25	ASIC 26	ASIC 27	ASIC 28	ASIC 29	ASIC 31	ASIC 32	ASIC 33	ASIC 34	DIV C
UNIT	***** TERAJOULES *****											
2006	17.26	0.00	16.31	6.58	0.00	0.00	36.74	34.97	254.45	15.87	37.89	420.07
2007	16.73	0.00	9.22	0.22	0.00	0.00	33.86	17.63	223.46	12.85	53.78	367.75
2008	15.03	0.00	10.33	0.00	0.00	0.00	27.07	8.30	189.19	12.88	54.69	317.49
2009	12.44	0.00	7.56	0.00	0.00	0.00	23.20	3.95	67.67	12.46	32.30	159.58
2010	11.42	0.00	7.09	0.00	0.00	0.00	20.99	3.69	62.66	11.38	29.88	147.10
2011	11.61	0.00	6.92	0.00	0.00	0.00	20.30	3.50	60.31	11.02	29.49	143.15
2012	12.10	0.00	6.85	0.00	0.00	0.00	19.95	3.35	58.69	10.75	29.56	141.24
2013	12.10	0.00	6.73	0.00	0.00	0.00	19.40	3.17	56.72	10.29	29.31	137.72
2014	11.79	0.00	6.44	0.00	0.00	0.00	18.17	2.95	53.38	9.48	28.00	130.21
2015	12.34	0.00	6.31	0.00	0.00	0.00	17.78	2.77	51.36	9.16	28.05	127.77
2016	13.09	0.00	6.24	0.00	0.00	0.00	17.60	2.63	49.88	8.98	28.43	126.85
2017	13.90	0.00	6.20	0.00	0.00	0.00	17.48	2.51	48.71	8.82	28.91	126.54
2018	14.80	0.00	6.18	0.00	0.00	0.00	17.40	2.41	47.64	8.67	29.46	126.56
2019	15.68	0.00	6.15	0.00	0.00	0.00	17.27	2.30	46.57	8.49	29.92	126.38
2020	16.68	0.00	6.12	0.00	0.00	0.00	17.18	2.20	45.53	8.34	30.46	126.51
PERCENTAGE CHANGES												
2007	-3.07	0.00	-43.47	-96.66	0.00	0.00	-7.84	-49.59	-12.18	-19.03	41.94	-12.46
2008	-10.16	0.00	12.04	-100.00	0.00	0.00	-20.05	-52.92	-15.34	0.23	1.69	-13.67
2009	-17.23	0.00	-26.82	0.00	0.00	0.00	-14.30	-52.41	-64.23	-3.26	-40.94	-49.74
2010	-8.23	0.00	-6.26	0.00	0.00	0.00	-9.52	-6.67	-7.40	-8.68	-7.50	-7.82
2011	1.70	0.00	-2.30	0.00	0.00	0.00	-3.30	-4.94	-3.75	-3.15	-1.31	-2.68
2012	4.18	0.00	-1.11	0.00	0.00	0.00	-1.70	-4.53	-2.70	-2.41	0.26	-1.34
2013	0.02	0.00	-1.71	0.00	0.00	0.00	-2.75	-5.21	-3.36	-4.27	-0.85	-2.49
2014	-2.54	0.00	-4.32	0.00	0.00	0.00	-6.35	-7.07	-5.88	-7.95	-4.47	-5.46
2015	4.67	0.00	-2.04	0.00	0.00	0.00	-2.13	-5.93	-3.80	-3.33	0.16	-1.87
2016	6.05	0.00	-1.11	0.00	0.00	0.00	-1.03	-5.00	-2.87	-1.96	1.37	-0.72
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	-10.34	0.00	-22.61	0.00	0.00	0.00	-14.21	-51.66	-35.69	-7.75	-5.18	-27.58
2011-2016	2.43	0.00	-2.07	0.00	0.00	0.00	-2.81	-5.55	-3.73	-4.01	-0.73	-2.39
2010-2020	3.87	0.00	-1.46	0.00	0.00	0.00	-1.98	-5.04	-3.14	-3.05	0.19	-1.50

All data are for the financial year ending in June of the year specified.

TABLE D.7 GAS TRANSMISSION SYSTEM - TARIFF D BLOCK GAS CUSTOMERS BY INDUSTRY SECTOR - CENTRAL ADELAIDE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	0.00	0.00	16.00	0.00	0.00	1.00	2.00	0.00	14.00	10.00	43.00
2007	0.00	0.00	14.00	0.00	0.00	1.00	2.00	0.00	14.00	10.00	41.00
2008	0.00	0.00	14.00	0.00	0.00	1.00	2.00	0.00	14.00	10.00	41.00
2009	0.00	0.00	14.00	0.00	0.00	1.00	3.00	0.00	14.00	10.00	42.00
2010	0.00	0.00	13.45	0.00	0.00	1.01	3.03	0.00	14.02	10.19	41.70
2011	0.00	0.00	13.51	0.00	0.00	1.03	3.09	0.00	14.11	10.36	42.11
2012	0.00	0.00	13.64	0.00	0.00	1.04	3.13	0.00	13.92	10.51	42.24
2013	0.00	0.00	13.42	0.00	0.00	1.06	3.10	0.00	13.77	10.66	42.00
2014	0.00	0.00	13.09	0.00	0.00	1.05	3.15	0.00	13.34	10.55	41.19
2015	0.00	0.00	13.26	0.00	0.00	1.06	3.18	0.00	13.12	10.48	41.09
2016	0.00	0.00	13.48	0.00	0.00	1.07	3.23	0.00	12.99	10.48	41.25
2017	0.00	0.00	13.81	0.00	0.00	1.08	3.29	0.00	12.90	10.49	41.57
2018	0.00	0.00	14.02	0.00	0.00	1.10	3.35	0.00	12.82	10.53	41.82
2019	0.00	0.00	14.29	0.00	0.00	1.11	3.41	0.00	12.73	10.53	42.07
2020	0.00	0.00	14.60	0.00	0.00	1.12	3.47	0.00	12.65	10.56	42.40
PERCENTAGE CHANGES											
2007	0.00	0.00	-12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.65
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00	0.00	0.00	2.44
2010	0.00	0.00	-3.95	0.00	0.00	1.18	0.95	0.00	0.16	1.89	-0.72
2011	0.00	0.00	0.48	0.00	0.00	1.42	2.19	0.00	0.66	1.66	0.98
2012	0.00	0.00	0.93	0.00	0.00	1.48	1.19	0.00	-1.39	1.44	0.31
2013	0.00	0.00	-1.61	0.00	0.00	1.65	-1.05	0.00	-1.07	1.42	-0.56
2014	0.00	0.00	-2.47	0.00	0.00	-0.37	1.81	0.00	-3.14	-0.96	-1.94
2015	0.00	0.00	1.29	0.00	0.00	0.29	0.84	0.00	-1.62	-0.75	-0.24
2016	0.00	0.00	1.71	0.00	0.00	1.00	1.63	0.00	-0.98	0.01	0.39
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	0.00	0.00	-4.35	0.00	0.00	0.00	14.47	0.00	0.00	0.00	-0.78
2011-2016	0.00	0.00	-0.04	0.00	0.00	0.81	0.88	0.00	-1.64	0.23	-0.41
2010-2020	0.00	0.00	0.82	0.00	0.00	1.05	1.38	0.00	-1.03	0.36	0.17

All data are for the financial year ending in June of the year specified.

TABLE D.8 GAS TRANSMISSION SYSTEM - TARIFF D BLOCK GAS CUSTOMERS BY MANUFACTURING SECTOR - CENTRAL ADELAIDE

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PRINTING + PUBLISHING ASIC 25	PAPER, PETROLEUM AND COAL ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI- CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL- -ANEOUS MANUFA- CTURING ASIC 34	TOTAL MANUFA- CTURING DIV C
UNIT	***** TERAJOULES *****											
2006	8.00	0.00	1.00	1.00	0.00	4.00	0.00	1.00	1.00	0.00	0.00	16.00
2007	7.00	0.00	1.00	0.00	0.00	4.00	0.00	1.00	1.00	0.00	0.00	14.00
2008	7.00	0.00	1.00	0.00	0.00	4.00	0.00	1.00	1.00	0.00	0.00	14.00
2009	7.00	0.00	1.00	0.00	0.00	4.00	0.00	1.00	1.00	0.00	0.00	14.00
2010	6.88	0.00	0.95	0.00	0.00	3.76	0.00	0.93	0.94	0.00	0.00	13.45
2011	6.97	0.00	0.93	0.00	0.00	3.81	0.00	0.90	0.91	0.00	0.00	13.51
2012	7.10	0.00	0.93	0.00	0.00	3.84	0.00	0.87	0.90	0.00	0.00	13.64
2013	7.09	0.00	0.92	0.00	0.00	3.69	0.00	0.84	0.88	0.00	0.00	13.42
2014	7.06	0.00	0.89	0.00	0.00	3.50	0.00	0.80	0.84	0.00	0.00	13.09
2015	7.16	0.00	0.88	0.00	0.00	3.61	0.00	0.78	0.82	0.00	0.00	13.26
2016	7.32	0.00	0.88	0.00	0.00	3.71	0.00	0.76	0.81	0.00	0.00	13.48
2017	7.50	0.00	0.88	0.00	0.00	3.88	0.00	0.75	0.80	0.00	0.00	13.81
2018	7.69	0.00	0.88	0.00	0.00	3.93	0.00	0.74	0.79	0.00	0.00	14.02
2019	7.87	0.00	0.88	0.00	0.00	4.04	0.00	0.73	0.79	0.00	0.00	14.29
2020	8.07	0.00	0.88	0.00	0.00	4.16	0.00	0.71	0.78	0.00	0.00	14.60
PERCENTAGE CHANGES												
2007	-12.50	0.00	0.00	-100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12.50
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	-1.74	0.00	-5.21	0.00	0.00	-6.11	0.00	-7.29	-6.33	0.00	0.00	-3.95
2011	1.27	0.00	-1.71	0.00	0.00	1.35	0.00	-3.45	-2.71	0.00	0.00	0.48
2012	2.00	0.00	-0.67	0.00	0.00	0.82	0.00	-2.55	-1.67	0.00	0.00	0.93
2013	-0.16	0.00	-1.06	0.00	0.00	-3.90	0.00	-3.29	-2.13	0.00	0.00	-1.61
2014	-0.52	0.00	-3.02	0.00	0.00	-4.96	0.00	-5.53	-4.18	0.00	0.00	-2.47
2015	1.51	0.00	-0.94	0.00	0.00	3.08	0.00	-2.55	-2.00	0.00	0.00	1.29
2016	2.17	0.00	-0.36	0.00	0.00	2.78	0.00	-1.81	-1.41	0.00	0.00	1.71
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	-4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.35
2011-2016	0.99	0.00	-1.21	0.00	0.00	-0.49	0.00	-3.16	-2.28	0.00	0.00	-0.04
2010-2020	1.61	0.00	-0.79	0.00	0.00	1.04	0.00	-2.58	-1.84	0.00	0.00	0.82

All data are for the financial year ending in June of the year specified.

TABLE D.9 GAS TRANSMISSION SYSTEM - TARIFF D BLOCK GAS CUSTOMERS BY INDUSTRY SECTOR - NORTHERN ADELAIDE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	2.00	0.00	58.00	1.00	0.00	0.00	1.00	1.00	9.00	5.00	77.00
2007	2.00	0.00	62.00	0.00	0.00	0.00	1.00	1.00	9.00	5.00	80.00
2008	3.00	0.00	59.00	1.00	0.00	0.00	1.00	1.00	9.00	5.00	79.00
2009	3.00	0.00	59.00	1.00	0.00	0.00	1.00	1.00	9.00	5.00	79.00
2010	3.08	0.00	57.39	1.00	0.00	0.00	1.00	0.99	8.97	5.04	77.47
2011	3.14	0.00	57.34	1.00	0.00	0.00	1.01	0.99	8.97	5.08	77.53
2012	3.18	0.00	57.71	1.00	0.00	0.00	1.01	1.05	8.83	5.11	77.89
2013	3.20	0.00	57.13	1.00	0.00	0.00	1.01	1.10	8.72	5.13	77.29
2014	3.19	0.00	55.77	1.00	0.00	0.00	1.00	1.11	8.45	5.07	75.58
2015	3.20	0.00	55.69	1.00	0.00	0.00	1.00	1.11	8.28	5.02	75.29
2016	3.22	0.00	56.13	1.00	0.00	0.00	0.99	1.12	8.17	4.99	75.62
2017	3.24	0.00	56.65	1.00	0.00	0.00	1.00	1.13	8.08	4.98	76.08
2018	3.26	0.00	56.91	1.00	0.00	0.00	1.00	1.15	8.00	4.98	76.30
2019	3.28	0.00	57.41	1.00	0.00	0.00	1.00	1.16	7.92	4.97	76.74
2020	3.30	0.00	57.99	1.00	0.00	0.00	1.00	1.18	7.84	4.96	77.27
PERCENTAGE CHANGES											
2007	0.00	0.00	6.90	-100.00	0.00	0.00	0.00	0.00	0.00	0.00	3.90
2008	50.00	0.00	-4.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.25
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	2.57	0.00	-2.72	0.00	0.00	0.00	0.20	-0.73	-0.37	0.75	-1.94
2011	2.18	0.00	-0.09	0.00	0.00	0.00	0.46	-0.41	0.03	0.76	0.07
2012	1.17	0.00	0.64	0.00	0.00	0.00	0.37	5.71	-1.50	0.64	0.47
2013	0.63	0.00	-1.00	0.00	0.00	0.00	-0.16	5.36	-1.34	0.49	-0.76
2014	-0.49	0.00	-2.39	0.00	0.00	0.00	-0.52	0.74	-3.10	-1.16	-2.21
2015	0.41	0.00	-0.14	0.00	0.00	0.00	-0.76	0.21	-1.97	-1.11	-0.39
2016	0.70	0.00	0.78	0.00	0.00	0.00	-0.21	0.92	-1.36	-0.46	0.44
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	14.47	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86
2011-2016	0.48	0.00	-0.43	0.00	0.00	0.00	-0.26	2.56	-1.86	-0.32	-0.50
2010-2020	0.72	0.00	0.10	0.00	0.00	0.00	0.00	1.71	-1.34	-0.15	-0.03

All data are for the financial year ending in June of the year specified.

TABLE D.10 GAS TRANSMISSION SYSTEM - TARIFF BLOCK D GAS CUSTOMERS BY MANUFACTURING SECTOR -NORTHERN ADELAIDE

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PRINTING + PUBLISHING ASIC 25	PAPER, PRODUCTS AND PRINTING ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL-ANEOUS MANUFA-CTURING ASIC 34	TOTAL MANUFA-CTURING DIV C
UNIT	***** TERAJOULES *****											
2006	17.00	0.00	2.00	1.00	4.00	9.00	1.00	7.00	4.00	5.00	8.00	58.00
2007	18.00	0.00	2.00	2.00	4.00	11.00	2.00	6.00	4.00	5.00	8.00	62.00
2008	17.00	0.00	2.00	2.00	4.00	11.00	2.00	6.00	4.00	3.00	8.00	59.00
2009	17.00	0.00	2.00	2.00	4.00	12.00	1.00	6.00	4.00	3.00	8.00	59.00
2010	16.71	0.00	1.93	1.96	3.88	11.76	0.94	5.70	3.86	2.86	7.79	57.39
2011	16.93	0.00	1.91	1.98	3.87	11.86	0.92	5.52	3.79	2.80	7.77	57.34
2012	17.27	0.00	1.90	2.00	3.88	12.08	0.91	5.38	3.74	2.75	7.80	57.71
2013	17.24	0.00	1.88	2.00	3.88	11.88	0.89	5.22	3.68	2.67	7.79	57.13
2014	17.15	0.00	1.84	1.97	3.81	11.40	0.86	4.98	3.56	2.55	7.65	55.77
2015	17.41	0.00	1.82	1.98	3.81	11.39	0.84	4.82	3.49	2.48	7.65	55.69
2016	17.78	0.00	1.81	2.00	3.84	11.59	0.84	4.70	3.44	2.43	7.69	56.13
2017	18.21	0.00	1.81	2.03	3.87	11.76	0.83	4.60	3.40	2.39	7.76	56.65
2018	18.67	0.00	1.81	2.06	3.91	11.59	0.83	4.50	3.36	2.35	7.83	56.91
2019	19.12	0.00	1.80	2.08	3.95	11.72	0.83	4.40	3.33	2.30	7.90	57.41
2020	19.59	0.00	1.80	2.11	3.99	11.85	0.82	4.30	3.29	2.26	7.97	57.99
PERCENTAGE CHANGES												
2007	5.88	0.00	0.00	100.00	0.00	22.22	100.00	-14.29	0.00	0.00	0.00	6.90
2008	-5.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-40.00	0.00	-4.84
2009	0.00	0.00	0.00	0.00	0.00	9.09	-50.00	0.00	0.00	0.00	0.00	0.00
2010	-1.68	0.00	-3.47	-1.82	-3.11	-1.96	-6.10	-5.08	-3.62	-4.53	-2.66	-2.72
2011	1.28	0.00	-1.15	0.70	-0.25	0.80	-2.14	-3.02	-1.79	-2.24	-0.20	-0.09
2012	1.99	0.00	-0.47	1.06	0.47	1.87	-1.14	-2.55	-1.27	-1.93	0.41	0.64
2013	-0.16	0.00	-0.83	0.19	-0.07	-1.68	-1.78	-3.08	-1.65	-2.79	-0.12	-1.00
2014	-0.50	0.00	-2.37	-1.68	-1.89	-4.05	-4.03	-4.60	-3.04	-4.55	-1.81	-2.39
2015	1.49	0.00	-1.07	0.42	0.03	-0.07	-1.37	-3.11	-2.04	-2.70	-0.06	-0.14
2016	2.15	0.00	-0.51	1.18	0.68	1.79	-0.69	-2.48	-1.48	-1.97	0.59	0.78
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	0.00	0.00	0.00	25.99	0.00	10.06	0.00	-5.01	0.00	-15.66	0.00	0.57
2011-2016	0.99	0.00	-1.05	0.23	-0.16	-0.45	-1.81	-3.17	-1.90	-2.79	-0.20	-0.43
2010-2020	1.60	0.00	-0.69	0.73	0.29	0.07	-1.30	-2.76	-1.57	-2.33	0.23	0.10

All data are for the financial year ending in June of the year specified.

TABLE D.11 GAS TRANSMISSION SYSTEM - TARIFF D BLOCK GAS CUSTOMERS BY INDUSTRY SECTOR - SOUTHERN ADELAIDE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	1.00	0.00	11.00	0.00	0.00	0.00	1.00	0.00	6.00	1.00	20.00
2007	1.00	0.00	10.00	0.00	0.00	0.00	1.00	0.00	6.00	1.00	19.00
2008	1.00	0.00	10.00	0.00	0.00	0.00	1.00	0.00	6.00	1.00	19.00
2009	1.00	0.00	8.00	0.00	0.00	0.00	1.00	0.00	6.00	1.00	17.00
2010	1.03	0.00	7.64	0.00	0.00	0.00	1.00	0.00	5.95	1.00	16.61
2011	1.05	0.00	7.53	0.00	0.00	0.00	1.01	0.00	5.92	0.99	16.50
2012	1.06	0.00	7.48	0.00	0.00	0.00	1.02	0.00	5.85	0.99	16.40
2013	1.07	0.00	7.37	0.00	0.00	0.00	1.01	0.00	5.77	0.98	16.21
2014	1.06	0.00	7.14	0.00	0.00	0.00	1.01	0.00	5.62	0.96	15.80
2015	1.07	0.00	7.07	0.00	0.00	0.00	1.01	0.00	5.50	0.95	15.59
2016	1.07	0.00	7.05	0.00	0.00	0.00	1.01	0.00	5.42	0.93	15.48
2017	1.08	0.00	7.04	0.00	0.00	0.00	1.02	0.00	5.35	0.93	15.42
2018	1.09	0.00	7.05	0.00	0.00	0.00	1.03	0.00	5.29	0.92	15.37
2019	1.09	0.00	7.05	0.00	0.00	0.00	1.03	0.00	5.23	0.91	15.31
2020	1.10	0.00	7.05	0.00	0.00	0.00	1.04	0.00	5.17	0.90	15.27
PERCENTAGE CHANGES											
2007	0.00	0.00	-9.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5.00
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	-20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.53
2010	2.55	0.00	-4.56	0.00	0.00	0.00	0.38	0.00	-0.78	-0.37	-2.27
2011	2.16	0.00	-1.42	0.00	0.00	0.00	0.90	0.00	-0.49	-0.35	-0.66
2012	1.16	0.00	-0.63	0.00	0.00	0.00	0.56	0.00	-1.28	-0.40	-0.66
2013	0.63	0.00	-1.42	0.00	0.00	0.00	-0.42	0.00	-1.34	-0.63	-1.15
2014	-0.49	0.00	-3.16	0.00	0.00	0.00	0.07	0.00	-2.61	-1.80	-2.50
2015	0.41	0.00	-1.01	0.00	0.00	0.00	-0.36	0.00	-2.10	-1.85	-1.31
2016	0.70	0.00	-0.32	0.00	0.00	0.00	0.25	0.00	-1.53	-1.27	-0.70
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	0.00	0.00	-10.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5.27
2011-2016	0.48	0.00	-1.31	0.00	0.00	0.00	0.02	0.00	-1.77	-1.19	-1.27
2010-2020	0.71	0.00	-0.79	0.00	0.00	0.00	0.34	0.00	-1.40	-0.99	-0.84

All data are for the financial year ending in June of the year specified.

TABLE D.12 GAS TRANSMISSION SYSTEM - TARIFF BLOCK D GAS CUSTOMERS BY MANUFACTURING SECTOR - SOUTHERN ADELAIDE

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PRINTING + PUBLISHING ASIC 25	PAPER, PRODUCTS ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL-ANEOUS MANUFA-CTURING ASIC 34	TOTAL MANUFA-CTURING DIV C
UNIT	***** TERAJOULES *****											
2006	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	4.00	1.00	1.00	11.00
2007	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	4.00	1.00	1.00	10.00
2008	1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	4.00	1.00	1.00	10.00
2009	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	3.00	1.00	1.00	8.00
2010	0.95	0.00	0.96	0.00	0.00	0.00	0.94	0.00	2.88	0.95	0.96	7.64
2011	0.96	0.00	0.95	0.00	0.00	0.00	0.92	0.00	2.82	0.93	0.95	7.53
2012	0.98	0.00	0.94	0.00	0.00	0.00	0.91	0.00	2.77	0.92	0.95	7.48
2013	0.98	0.00	0.93	0.00	0.00	0.00	0.90	0.00	2.72	0.89	0.94	7.37
2014	0.97	0.00	0.91	0.00	0.00	0.00	0.86	0.00	2.63	0.85	0.92	7.14
2015	1.00	0.00	0.90	0.00	0.00	0.00	0.85	0.00	2.57	0.83	0.92	7.07
2016	1.03	0.00	0.89	0.00	0.00	0.00	0.85	0.00	2.53	0.82	0.93	7.05
2017	1.07	0.00	0.89	0.00	0.00	0.00	0.84	0.00	2.49	0.81	0.94	7.04
2018	1.11	0.00	0.89	0.00	0.00	0.00	0.84	0.00	2.46	0.80	0.95	7.05
2019	1.15	0.00	0.89	0.00	0.00	0.00	0.84	0.00	2.43	0.79	0.96	7.05
2020	1.19	0.00	0.88	0.00	0.00	0.00	0.84	0.00	2.40	0.78	0.97	7.05
PERCENTAGE CHANGES												
2007	0.00	0.00	0.00	-100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-9.09
2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100.00	-25.00	0.00	0.00	-20.00
2010	-4.93	0.00	-3.73	0.00	0.00	0.00	-5.82	0.00	-4.11	-5.19	-4.49	-4.56
2011	1.03	0.00	-1.34	0.00	0.00	0.00	-1.99	0.00	-2.10	-1.95	-0.76	-1.42
2012	2.47	0.00	-0.63	0.00	0.00	0.00	-1.02	0.00	-1.52	-1.52	0.16	-0.63
2013	0.01	0.00	-0.99	0.00	0.00	0.00	-1.66	0.00	-1.91	-2.61	-0.49	-1.42
2014	-1.50	0.00	-2.57	0.00	0.00	0.00	-3.85	0.00	-3.37	-4.80	-2.67	-3.16
2015	2.74	0.00	-1.21	0.00	0.00	0.00	-1.28	0.00	-2.24	-2.11	0.09	-1.01
2016	3.55	0.00	-0.65	0.00	0.00	0.00	-0.62	0.00	-1.69	-1.30	0.81	-0.32
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-9.14	0.00	0.00	-10.07
2011-2016	1.44	0.00	-1.21	0.00	0.00	0.00	-1.69	0.00	-2.15	-2.48	-0.43	-1.31
2010-2020	2.28	0.00	-0.85	0.00	0.00	0.00	-1.19	0.00	-1.81	-1.92	0.12	-0.79

All data are for the financial year ending in June of the year specified.

TABLE D.13 GAS TRANSMISSION SYSTEM - TARIFF D BLOCK GAS MDQ BY INDUSTRY SECTOR - CENTRAL ADELAIDE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	0.00	0.00	6920.00	0.00	0.00	76.00	683.00	0.00	2712.00	1170.00	11561.00
2007	0.00	0.00	6400.00	0.00	0.00	76.00	814.00	0.00	2792.00	1265.00	11347.00
2008	0.00	0.00	6526.00	0.00	0.00	76.00	814.00	0.00	2792.00	1317.00	11525.00
2009	0.00	0.00	6422.00	0.00	0.00	76.00	1019.00	0.00	2656.00	1324.00	11497.00
2010	0.00	0.00	6422.00	0.00	0.00	76.00	1019.00	0.00	2656.00	1324.00	11497.00
2011	0.00	0.00	6458.14	0.00	0.00	76.99	1037.79	0.00	2669.93	1344.25	11589.84
2012	0.00	0.00	6498.49	0.00	0.00	78.03	1048.36	0.00	2635.80	1362.11	11626.75
2013	0.00	0.00	6323.81	0.00	0.00	79.21	1039.13	0.00	2609.10	1379.96	11436.50
2014	0.00	0.00	6098.01	0.00	0.00	78.94	1054.07	0.00	2534.27	1367.60	11138.80
2015	0.00	0.00	6211.53	0.00	0.00	79.15	1060.65	0.00	2495.51	1358.14	11212.54
2016	0.00	0.00	6334.33	0.00	0.00	79.87	1074.67	0.00	2472.03	1358.19	11328.57
2017	0.00	0.00	6538.57	0.00	0.00	80.76	1090.42	0.00	2454.55	1360.23	11535.79
2018	0.00	0.00	6638.70	0.00	0.00	81.75	1107.69	0.00	2439.80	1363.91	11644.98
2019	0.00	0.00	6785.96	0.00	0.00	82.61	1122.89	0.00	2422.58	1364.78	11793.56
2020	0.00	0.00	6957.45	0.00	0.00	83.61	1140.34	0.00	2407.45	1368.15	11973.67
PERCENTAGE CHANGES											
2007	0.00	0.00	-7.51	0.00	0.00	0.00	19.18	0.00	2.95	8.12	-1.85
2008	0.00	0.00	1.97	0.00	0.00	0.00	0.00	0.00	0.00	4.11	1.57
2009	0.00	0.00	-1.59	0.00	0.00	0.00	25.18	0.00	-4.87	0.53	-0.24
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.56	0.00	0.00	1.30	1.84	0.00	0.52	1.53	0.81
2012	0.00	0.00	0.62	0.00	0.00	1.36	1.02	0.00	-1.28	1.33	0.32
2013	0.00	0.00	-2.69	0.00	0.00	1.51	-0.88	0.00	-1.01	1.31	-1.64
2014	0.00	0.00	-3.57	0.00	0.00	-0.34	1.44	0.00	-2.87	-0.90	-2.60
2015	0.00	0.00	1.86	0.00	0.00	0.26	0.62	0.00	-1.53	-0.69	0.66
2016	0.00	0.00	1.98	0.00	0.00	0.92	1.32	0.00	-0.94	0.00	1.03
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	0.00	0.00	-2.46	0.00	0.00	0.00	14.27	0.00	-0.69	4.21	-0.18
2011-2016	0.00	0.00	-0.39	0.00	0.00	0.74	0.70	0.00	-1.53	0.21	-0.45
2010-2020	0.00	0.00	0.80	0.00	0.00	0.96	1.13	0.00	-0.98	0.33	0.41

All data are for the financial year ending in June of the year specified.

TABLE D.14 GAS TRANSMISSION SYSTEM - TARIFF D BLOCK GAS MDQ BY MANUFACTURING SECTOR - CENTRAL ADELAIDE

	FOOD, BEV. + TOBACCO AND FOOTWEAR	TEXTILES, CLOTHING AND FURNITURE	WOOD, PROD'S AND PRINTING + PUBLISHING	PAPER, PETROLEUM AND COAL	CHEMICAL, PETROLEUM AND COAL	NON-METALLIC MINERAL PRODUCTS	BASIC METAL PRODUCTS	FABRI-CATED METAL PRODUCTS	TRANSPORT EQUIPMENT	OTHER MACHINERY AND EQUIPMENT	MISCELL-ANEOUS MANUFA-CTURING	TOTAL MANUFA-CTURING
	ASIC 21	ASIC 23/24	ASIC 25	ASIC 26	ASIC 27	ASIC 28	ASIC 29	ASIC 31	ASIC 32	ASIC 33	ASIC 34	DIV C
UNIT	***** TERAJOULES *****						*****					
2006	2367.00	0.00	161.00	78.00	0.00	2839.00	0.00	1300.00	175.00	0.00	0.00	6920.00
2007	2375.00	0.00	161.00	0.00	0.00	2839.00	0.00	850.00	175.00	0.00	0.00	6400.00
2008	2397.00	0.00	161.00	0.00	0.00	2943.00	0.00	850.00	175.00	0.00	0.00	6526.00
2009	2467.00	0.00	173.00	0.00	0.00	2812.00	0.00	850.00	120.00	0.00	0.00	6422.00
2010	2467.00	0.00	173.00	0.00	0.00	2812.00	0.00	850.00	120.00	0.00	0.00	6422.00
2011	2495.59	0.00	170.22	0.00	0.00	2857.98	0.00	818.37	116.10	0.00	0.00	6458.14
2012	2541.56	0.00	169.13	0.00	0.00	2879.22	0.00	794.79	113.77	0.00	0.00	6498.49
2013	2537.89	0.00	167.43	0.00	0.00	2741.19	0.00	765.95	110.87	0.00	0.00	6323.81
2014	2524.98	0.00	162.72	0.00	0.00	2583.09	0.00	721.10	105.39	0.00	0.00	6098.01
2015	2560.66	0.00	161.28	0.00	0.00	2688.10	0.00	698.61	102.95	0.00	0.00	6211.53
2016	2612.57	0.00	160.70	0.00	0.00	2777.87	0.00	682.34	101.26	0.00	0.00	6334.33
2017	2671.36	0.00	160.57	0.00	0.00	2940.04	0.00	667.85	99.91	0.00	0.00	6538.57
2018	2734.30	0.00	160.59	0.00	0.00	2992.28	0.00	654.55	98.70	0.00	0.00	6638.70
2019	2795.32	0.00	160.52	0.00	0.00	3094.70	0.00	640.11	97.41	0.00	0.00	6785.96
2020	2860.22	0.00	160.48	0.00	0.00	3216.01	0.00	627.08	96.18	0.00	0.00	6957.45
PERCENTAGE CHANGES												
2007	0.34	0.00	0.00	-100.00	0.00	0.00	0.00	-34.62	0.00	0.00	0.00	-7.51
2008	0.93	0.00	0.00	0.00	0.00	3.66	0.00	0.00	0.00	0.00	0.00	1.97
2009	2.92	0.00	7.45	0.00	0.00	-4.45	0.00	0.00	-31.43	0.00	0.00	-1.59
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	1.16	0.00	-1.61	0.00	0.00	1.64	0.00	-3.72	-3.25	0.00	0.00	0.56
2012	1.84	0.00	-0.64	0.00	0.00	0.74	0.00	-2.88	-2.01	0.00	0.00	0.62
2013	-0.14	0.00	-1.00	0.00	0.00	-4.79	0.00	-3.63	-2.54	0.00	0.00	-2.69
2014	-0.51	0.00	-2.81	0.00	0.00	-5.77	0.00	-5.86	-4.94	0.00	0.00	-3.57
2015	1.41	0.00	-0.89	0.00	0.00	4.07	0.00	-3.12	-2.32	0.00	0.00	1.86
2016	2.03	0.00	-0.36	0.00	0.00	3.34	0.00	-2.33	-1.65	0.00	0.00	1.98
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	1.39	0.00	2.43	0.00	0.00	-0.32	0.00	-13.21	-11.82	0.00	0.00	-2.46
2011-2016	0.92	0.00	-1.14	0.00	0.00	-0.57	0.00	-3.57	-2.70	0.00	0.00	-0.39
2010-2020	1.49	0.00	-0.75	0.00	0.00	1.35	0.00	-3.00	-2.19	0.00	0.00	0.80

All data are for the financial year ending in June of the year specified.

TABLE D.15 GAS TRANSMISSION SYSTEM - TARIFF D BLOCK GAS MDQ BY INDUSTRY SECTOR - NORTHERN ADELAIDE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	1397.00	0.00	50987.00	72.00	0.00	0.00	65.00	145.00	1178.00	833.00	54677.00
2007	1431.00	0.00	51753.00	0.00	0.00	0.00	65.00	145.00	1192.00	833.00	55419.00
2008	2831.00	0.00	52837.00	72.00	0.00	0.00	65.00	174.00	1224.00	862.00	58065.00
2009	2950.00	0.00	47358.00	72.00	0.00	0.00	65.00	174.00	1132.00	862.00	52613.00
2010	2950.00	0.00	47358.00	72.00	0.00	0.00	65.00	174.00	1132.00	862.00	52613.00
2011	3008.81	0.00	47546.19	72.00	0.00	0.00	65.17	173.35	1131.45	868.07	52866.32
2012	3040.91	0.00	48125.21	72.00	0.00	0.00	65.35	182.40	1115.76	873.22	53476.80
2013	3058.57	0.00	47282.29	72.00	0.00	0.00	65.31	191.34	1101.73	877.24	52651.31
2014	3044.82	0.00	45559.10	72.00	0.00	0.00	64.86	192.64	1070.60	867.77	50874.79
2015	3056.26	0.00	45615.29	72.00	0.00	0.00	64.31	193.02	1050.78	858.90	50914.22
2016	3075.93	0.00	46267.65	72.00	0.00	0.00	64.08	194.64	1037.19	855.24	51571.18
2017	3094.52	0.00	46974.51	72.00	0.00	0.00	64.06	196.67	1026.47	853.56	52286.93
2018	3113.26	0.00	46800.48	72.00	0.00	0.00	64.10	198.94	1016.92	852.81	52124.36
2019	3130.78	0.00	47344.75	72.00	0.00	0.00	64.15	200.93	1006.69	851.11	52676.86
2020	3149.46	0.00	47965.19	72.00	0.00	0.00	64.17	203.21	997.08	850.17	53308.43
PERCENTAGE CHANGES											
2007	2.43	0.00	1.50	-100.00	0.00	0.00	0.00	0.00	1.19	0.00	1.36
2008	97.83	0.00	2.09	0.00	0.00	0.00	0.00	20.00	2.68	3.48	4.77
2009	4.20	0.00	-10.37	0.00	0.00	0.00	0.00	0.00	-7.52	0.00	-9.39
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	1.99	0.00	0.40	0.00	0.00	0.00	0.27	-0.37	-0.05	0.70	0.48
2012	1.07	0.00	1.22	0.00	0.00	0.00	0.26	5.22	-1.39	0.59	1.15
2013	0.58	0.00	-1.75	0.00	0.00	0.00	-0.06	4.90	-1.26	0.46	-1.54
2014	-0.45	0.00	-3.64	0.00	0.00	0.00	-0.69	0.68	-2.83	-1.08	-3.37
2015	0.38	0.00	0.12	0.00	0.00	0.00	-0.84	0.20	-1.85	-1.02	0.08
2016	0.64	0.00	1.43	0.00	0.00	0.00	-0.36	0.84	-1.29	-0.43	1.29
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	28.29	0.00	-2.43	0.00	0.00	0.00	0.00	6.27	-1.32	1.15	-1.27
2011-2016	0.44	0.00	-0.54	0.00	0.00	0.00	-0.34	2.34	-1.72	-0.30	-0.49
2010-2020	0.66	0.00	0.13	0.00	0.00	0.00	-0.13	1.56	-1.26	-0.14	0.13

All data are for the financial year ending in June of the year specified.

TABLE D.16 GAS TRANSMISSION SYSTEM - TARIFF BLOCK D GAS MDQ BY MANUFACTURING SECTOR -NORTHERN ADELAIDE

	FOOD, BEV. + TOBACCO	TEXTILES, CLOTHING AND FOOTWEAR	WOOD, WOOD AND FURNITURE	PAPER, PAPER PRODUCTS PRINTING + PUBLISHING	CHEMICAL, PETROLEUM AND COAL	NON- METALLIC MINERAL PRODUCTS	BASIC METAL PRODUCTS	FABRI- CATED METAL PRODUCTS	TRANSPORT EQUIPMENT	OTHER MACHINERY AND EQUIPMENT	MISCELL -ANEOUS MANUFA- CTURING	TOTAL MANUFA- CTURING
	ASIC 21	ASIC 23/24	ASIC 25	ASIC 26	ASIC 27	ASIC 28	ASIC 29	ASIC 31	ASIC 32	ASIC 33	ASIC 34	DIV C
UNIT	***** TERAJOULES *****											
2006	7164.00	0.00	479.00	275.00	833.00	32088.00	81.00	854.00	4728.00	2215.00	2270.00	50987.00
2007	7408.00	0.00	479.00	378.00	833.00	32225.00	218.00	811.00	4896.00	2235.00	2270.00	51753.00
2008	8651.00	0.00	479.00	386.00	906.00	32316.00	183.00	771.00	4923.00	2002.00	2220.00	52837.00
2009	7920.00	0.00	479.00	386.00	803.00	27948.00	128.00	814.00	4695.00	2002.00	2183.00	47358.00
2010	7920.00	0.00	479.00	386.00	803.00	27948.00	128.00	814.00	4695.00	2002.00	2183.00	47358.00
2011	8012.46	0.00	473.74	389.06	800.72	28228.06	124.89	787.66	4590.77	1961.81	2178.60	47546.19
2012	8159.86	0.00	471.55	393.75	805.02	28772.69	123.28	765.00	4519.25	1928.31	2186.59	48125.21
2013	8148.23	0.00	467.81	394.58	804.38	28110.57	120.79	739.11	4428.82	1879.52	2183.80	47282.29
2014	8108.44	0.00	457.43	387.08	787.16	26779.48	115.27	703.59	4266.54	1800.26	2146.86	45559.10
2015	8221.86	0.00	452.84	388.93	787.47	26905.47	113.49	677.22	4165.79	1757.35	2145.77	45615.29
2016	8387.20	0.00	450.63	394.15	793.52	27498.70	112.59	656.30	4093.68	1727.40	2157.50	46267.65
2017	8574.75	0.00	449.76	400.17	801.91	28096.40	111.98	638.13	4037.63	1700.42	2174.25	46974.51
2018	8775.57	0.00	449.31	406.86	811.41	27783.98	111.50	621.22	3987.05	1675.82	2193.40	46800.48
2019	8970.36	0.00	448.72	412.60	819.95	28202.95	110.84	604.26	3935.46	1648.14	2210.26	47344.75
2020	9177.38	0.00	448.15	419.34	829.33	28677.01	110.32	588.03	3884.77	1623.81	2229.05	47965.19
PERCENTAGE CHANGES												
2007	3.41	0.00	0.00	37.45	0.00	0.43	169.14	-5.04	3.55	0.90	0.00	1.50
2008	16.78	0.00	0.00	2.12	8.76	0.28	-16.06	-4.93	0.55	-10.43	-2.20	2.09
2009	-8.45	0.00	0.00	0.00	-11.37	-13.52	-30.05	5.58	-4.63	0.00	-1.67	-10.37
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	1.17	0.00	-1.10	0.79	-0.28	1.00	-2.43	-3.24	-2.22	-2.01	-0.20	0.40
2012	1.84	0.00	-0.46	1.21	0.54	1.93	-1.29	-2.88	-1.56	-1.71	0.37	1.22
2013	-0.14	0.00	-0.79	0.21	-0.08	-2.30	-2.03	-3.38	-2.00	-2.53	-0.13	-1.75
2014	-0.49	0.00	-2.22	-1.90	-2.14	-4.74	-4.57	-4.81	-3.66	-4.22	-1.69	-3.64
2015	1.40	0.00	-1.00	0.48	0.04	0.47	-1.55	-3.75	-2.36	-2.38	-0.05	0.12
2016	2.01	0.00	-0.49	1.34	0.77	2.20	-0.79	-3.09	-1.73	-1.70	0.55	1.43
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	3.40	0.00	0.00	11.97	-1.22	-4.50	16.48	-1.59	-0.23	-3.31	-1.29	-2.43
2011-2016	0.92	0.00	-1.00	0.26	-0.18	-0.52	-2.05	-3.58	-2.27	-2.51	-0.19	-0.54
2010-2020	1.48	0.00	-0.66	0.83	0.32	0.26	-1.48	-3.20	-1.88	-2.07	0.21	0.13

All data are for the financial year ending in June of the year specified.

TABLE D.17 GAS TRANSMISSION SYSTEM - TARIFF D BLOCK GAS MDQ BY INDUSTRY SECTOR - SOUTHERN ADELAIDE

	AGRI- CULTURE, FORESTRY, FISHING + HUNTING DIV A	MINING DIV B	MANUFA- CTURING DIV C	ELEC- TRICITY, GAS + WATER DIV D	CONSTR- CTION DIV E	COMMERCE- WHOLESALE AND RETAIL TRADE DIV F	TRANSPORT, STORAGE, AND COMMUNI- CATION DIV G+H	FINANCE, PROPERTY AND BUSINESS SERVICES DIV I	PUBLIC ADMIN, DEFENCE, COMMUNITY SERVICES DIV J+K	RECREATION, PERSONAL AND OTHER SERVICES DIV L	TOTAL D TARIFF
UNIT	***** TERAJOULES *****										
2006	60.00	0.00	3260.00	0.00	0.00	0.00	611.00	0.00	1212.00	57.00	5200.00
2007	68.00	0.00	2699.00	0.00	0.00	0.00	480.00	0.00	1212.00	57.00	4516.00
2008	68.00	0.00	1602.00	0.00	0.00	0.00	480.00	0.00	1212.00	219.00	3581.00
2009	68.00	0.00	1138.00	0.00	0.00	0.00	480.00	0.00	1037.00	219.00	2942.00
2010	68.00	0.00	1138.00	0.00	0.00	0.00	480.00	0.00	1037.00	219.00	2942.00
2011	69.35	0.00	1118.38	0.00	0.00	0.00	483.19	0.00	1031.52	218.31	2921.59
2012	70.08	0.00	1108.39	0.00	0.00	0.00	485.33	0.00	1019.32	217.53	2901.72
2013	70.49	0.00	1090.25	0.00	0.00	0.00	483.88	0.00	1006.48	216.29	2868.67
2014	70.17	0.00	1051.79	0.00	0.00	0.00	483.14	0.00	982.53	212.69	2801.75
2015	70.43	0.00	1038.39	0.00	0.00	0.00	480.85	0.00	963.19	209.06	2763.86
2016	70.88	0.00	1032.48	0.00	0.00	0.00	481.15	0.00	949.21	206.61	2742.82
2017	71.31	0.00	1029.35	0.00	0.00	0.00	482.81	0.00	938.24	204.78	2729.51
2018	71.74	0.00	1027.69	0.00	0.00	0.00	484.95	0.00	928.33	203.18	2719.44
2019	72.14	0.00	1024.80	0.00	0.00	0.00	486.87	0.00	918.22	201.49	2707.55
2020	72.57	0.00	1023.24	0.00	0.00	0.00	488.90	0.00	908.32	199.88	2697.47
PERCENTAGE CHANGES											
2007	13.33	0.00	-17.21	0.00	0.00	0.00	-21.44	0.00	0.00	0.00	-13.15
2008	0.00	0.00	-40.64	0.00	0.00	0.00	0.00	0.00	0.00	284.21	-20.70
2009	0.00	0.00	-28.96	0.00	0.00	0.00	0.00	0.00	-14.44	0.00	-17.84
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	1.98	0.00	-1.72	0.00	0.00	0.00	0.66	0.00	-0.53	-0.31	-0.69
2012	1.06	0.00	-0.89	0.00	0.00	0.00	0.44	0.00	-1.18	-0.36	-0.68
2013	0.58	0.00	-1.64	0.00	0.00	0.00	-0.30	0.00	-1.26	-0.57	-1.14
2014	-0.45	0.00	-3.53	0.00	0.00	0.00	-0.15	0.00	-2.38	-1.66	-2.33
2015	0.37	0.00	-1.27	0.00	0.00	0.00	-0.47	0.00	-1.97	-1.71	-1.35
2016	0.64	0.00	-0.57	0.00	0.00	0.00	0.06	0.00	-1.45	-1.17	-0.76
COMPOUND GROWTH RATE (PER CENT) -											
2006-2009	4.26	0.00	-29.59	0.00	0.00	0.00	-7.73	0.00	-5.07	56.62	-17.29
2011-2016	0.44	0.00	-1.59	0.00	0.00	0.00	-0.08	0.00	-1.65	-1.10	-1.25
2010-2020	0.65	0.00	-1.06	0.00	0.00	0.00	0.18	0.00	-1.32	-0.91	-0.86

All data are for the financial year ending in June of the year specified.

TABLE D.18 GAS TRANSMISSION SYSTEM - TARIFF BLOCK D GAS MDQ BY MANUFACTURING SECTOR - SOUTHERN ADELAIDE

	FOOD, BEV. + TOBACCO AND FOOTWEAR ASIC 21	TEXTILES, CLOTHING AND FURNITURE ASIC 23/24	WOOD, PROD'S AND PRINTING + PUBLISHING ASIC 25	PAPER, PETROLEUM AND COAL ASIC 26	CHEMICAL, PETROLEUM AND COAL ASIC 27	NON-METALLIC MINERAL PRODUCTS ASIC 28	BASIC METAL PRODUCTS ASIC 29	FABRI-CATED METAL PRODUCTS ASIC 31	TRANSPORT EQUIPMENT ASIC 32	OTHER MACHINERY AND EQUIPMENT ASIC 33	MISCELL-ANEOUS MANUFA-CTURING ASIC 34	TOTAL MANUFA-CTURING DIV C
UNIT	***** TERAJOULES *****											
2006	72.00	0.00	95.00	54.00	0.00	0.00	193.00	250.00	2238.00	144.00	214.00	3260.00
2007	100.00	0.00	95.00	0.00	0.00	0.00	177.00	50.00	1888.00	144.00	245.00	2699.00
2008	100.00	0.00	55.00	0.00	0.00	0.00	177.00	50.00	812.00	144.00	264.00	1602.00
2009	100.00	0.00	55.00	0.00	0.00	0.00	177.00	0.00	462.00	144.00	200.00	1138.00
2010	100.00	0.00	55.00	0.00	0.00	0.00	177.00	0.00	462.00	144.00	200.00	1138.00
2011	100.93	0.00	54.30	0.00	0.00	0.00	173.00	0.00	450.16	141.49	198.56	1118.38
2012	103.23	0.00	53.97	0.00	0.00	0.00	171.00	0.00	441.86	139.60	198.84	1108.39
2013	103.24	0.00	53.46	0.00	0.00	0.00	167.78	0.00	431.72	136.29	197.91	1090.25
2014	101.79	0.00	52.18	0.00	0.00	0.00	160.46	0.00	414.30	130.22	192.99	1051.79
2015	104.38	0.00	51.59	0.00	0.00	0.00	158.12	0.00	403.54	127.82	193.16	1038.39
2016	107.81	0.00	51.27	0.00	0.00	0.00	157.02	0.00	395.62	126.43	194.62	1032.48
2017	111.46	0.00	51.11	0.00	0.00	0.00	156.31	0.00	389.27	125.14	196.42	1029.35
2018	115.35	0.00	50.99	0.00	0.00	0.00	155.80	0.00	383.47	124.02	198.45	1027.69
2019	119.09	0.00	50.86	0.00	0.00	0.00	155.03	0.00	377.59	122.56	200.15	1024.80
2020	123.19	0.00	50.73	0.00	0.00	0.00	154.45	0.00	371.83	121.42	202.14	1023.24
PERCENTAGE CHANGES												
2007	38.89	0.00	0.00	-100.00	0.00	0.00	-8.29	-80.00	-15.64	0.00	14.49	-17.21
2008	0.00	0.00	-42.11	0.00	0.00	0.00	0.00	0.00	-56.99	0.00	7.76	-40.64
2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100.00	-43.10	0.00	-24.24	-28.96
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.93	0.00	-1.27	0.00	0.00	0.00	-2.26	0.00	-2.56	-1.75	-0.72	-1.72
2012	2.28	0.00	-0.61	0.00	0.00	0.00	-1.16	0.00	-1.84	-1.33	0.14	-0.89
2013	0.01	0.00	-0.94	0.00	0.00	0.00	-1.88	0.00	-2.30	-2.37	-0.47	-1.64
2014	-1.40	0.00	-2.40	0.00	0.00	0.00	-4.36	0.00	-4.03	-4.45	-2.48	-3.53
2015	2.54	0.00	-1.13	0.00	0.00	0.00	-1.45	0.00	-2.60	-1.85	0.09	-1.27
2016	3.28	0.00	-0.61	0.00	0.00	0.00	-0.70	0.00	-1.96	-1.08	0.75	-0.57
COMPOUND GROWTH RATE (PER CENT) -												
2006-2009	11.57	0.00	-16.65	0.00	0.00	0.00	-2.84	0.00	-40.90	0.00	-2.23	-29.59
2011-2016	1.33	0.00	-1.14	0.00	0.00	0.00	-1.92	0.00	-2.55	-2.23	-0.40	-1.59
2010-2020	2.11	0.00	-0.80	0.00	0.00	0.00	-1.35	0.00	-2.15	-1.69	0.11	-1.06

All data are for the financial year ending in June of the year specified.

Appendix E

Tariff V by block and region

Table E.1 Residential volumes by block												
	Adelaide			Petersborough			Port Pirie			Riverlands		
	0 - 0.0493 GJ	> 0.0493 GJ	Total	0 - 0.0493 GJ	> 0.0493 GJ	Total	0 - 0.0493 GJ	> 0.0493 GJ	Total	0 - 0.0493 GJ	> 0.0493 GJ	Total
2006	4429.1	3140.6	7569.7	0.4	0.3	0.7	53.6	21.4	75.0	0.8	0.5	1.2
2007	4295.1	3076.1	7371.2	0.3	0.2	0.6	51.3	22.5	73.9	0.9	0.6	1.5
2008	4286.8	2827.6	7114.4	0.3	0.3	0.6	50.8	19.3	70.0	1.2	0.6	1.8
2009	4351.6	3093.7	7445.3	0.4	0.5	0.9	51.4	21.2	72.6	1.6	0.7	2.3
2010	4252.3	2970.9	7223.2	0.4	0.4	0.8	49.5	20.1	69.7	1.6	0.9	2.5
2011	4187.5	2925.5	7113.0	0.4	0.4	0.8	48.2	19.6	67.8	1.7	0.9	2.7
2012	4116.9	2876.2	6993.1	0.4	0.3	0.7	46.8	19.1	65.9	1.8	1.0	2.8
2013	4043.4	2824.8	6868.2	0.4	0.3	0.7	45.4	18.5	63.9	2.0	1.1	3.0
2014	3972.9	2775.7	6748.6	0.4	0.3	0.7	44.1	17.9	62.0	2.0	1.1	3.1
2015	3905.2	2728.4	6633.6	0.4	0.3	0.7	42.7	17.4	60.1	2.1	1.1	3.2
2016	3852.9	2691.8	6544.7	0.3	0.3	0.6	41.6	16.9	58.5	2.1	1.1	3.3
2017	3798.9	2654.0	6452.9	0.3	0.3	0.6	40.5	16.5	56.9	2.2	1.2	3.4
2018	3746.5	2617.4	6363.9	0.3	0.3	0.6	39.4	16.0	55.4	2.2	1.2	3.5
2019	3689.7	2577.7	6267.4	0.3	0.3	0.6	38.2	15.6	53.8	2.3	1.2	3.5
2020	3636.5	2540.6	6177.1	0.3	0.2	0.5	37.2	15.1	52.3	2.4	1.3	3.6

Table E.1 Residential volumes by block (continued)									
	South East			Whyalla			Total		
	0 - 0.0493 GJ	> 0.0493 GJ	Total	0 - 0.0493 GJ	> 0.0493 GJ	Total	0 - 0.0493 GJ	> 0.0493 GJ	Total
2006	88.2	95.0	183.2	34.2	11.4	45.6	4900.5	2974.9	7875.4
2007	89.0	99.5	188.5	33.2	13.3	46.5	4718.9	2963.3	7682.2
2008	92.4	103.6	196.0	32.1	10.2	42.2	4626.0	2799.0	7425.0
2009	96.0	116.9	212.9	32.7	10.8	43.5	4721.8	3055.6	7777.4
2010	96.5	109.2	205.7	31.1	10.7	41.8	4651.9	2891.8	7543.7
2011	94.6	107.1	201.6	30.3	10.4	40.8	4579.7	2846.9	7426.6
2012	92.6	104.9	197.5	29.5	10.2	39.7	4501.5	2798.2	7299.7
2013	90.7	102.7	193.4	28.7	9.9	38.5	4420.1	2747.7	7167.8
2014	88.9	100.7	189.6	27.9	9.6	37.5	4342.2	2699.2	7041.4
2015	87.3	98.8	186.1	27.1	9.3	36.4	4267.4	2652.7	6920.1
2016	86.0	97.4	183.5	26.5	9.1	35.6	4209.5	2616.7	6826.2
2017	84.9	96.1	181.0	25.9	8.9	34.8	4149.9	2579.7	6729.6
2018	83.9	95.0	178.8	25.3	8.7	34.0	4092.3	2543.8	6636.1
2019	82.8	93.8	176.6	24.7	8.5	33.2	4030.0	2505.1	6535.1
2020	81.9	92.8	174.7	24.1	8.3	32.4	3971.8	2468.9	6440.7

Table E.2 Commercial and industrial Tariff V by block										
	Adelaide					Petersborough				
	0 - 0.9863 GJ	0.9863 - 4.274 GJ	4.274 - 11.178 GJ	> 11.178 GJ	Total	0 - 0.9863 GJ	0.9863 - 4.274 GJ	4.274 - 11.178 GJ	> 11.178 GJ	Total
2006	1046.1	1019.4	540.7	169.7	2775.9	1.3	0.1	0.0	0.0	1.5
2007	1025.6	1005.1	531.8	174.8	2737.4	1.3	0.2	0.0	0.0	1.5
2008	1062.4	1034.2	553.9	184.0	2834.5	1.5	0.2	0.0	0.0	1.7
2009	1079.7	1054.1	548.5	204.2	2886.5	1.4	0.3	0.0	0.0	1.7
2010	1056.9	1031.6	545.6	183.6	2817.7	1.5	0.2	0.0	0.0	1.7
2011	1069.3	1043.7	552.0	185.8	2850.7	1.5	0.2	0.0	0.0	1.7
2012	1090.6	1064.5	563.0	189.5	2907.5	1.5	0.2	0.0	0.0	1.7
2013	1106.4	1079.9	571.1	192.2	2949.7	1.5	0.2	0.0	0.0	1.7
2014	1086.6	1060.6	560.9	188.8	2896.8	1.5	0.2	0.0	0.0	1.7
2015	1094.7	1068.5	565.1	190.2	2918.5	1.5	0.2	0.0	0.0	1.7
2016	1115.5	1088.8	575.8	193.8	2973.9	1.5	0.2	0.0	0.0	1.7
2017	1140.9	1113.6	588.9	198.2	3041.6	1.5	0.2	0.0	0.0	1.7
2018	1169.3	1141.3	603.6	203.1	3117.3	1.5	0.2	0.0	0.0	1.7
2019	1195.4	1166.8	617.1	207.7	3186.9	1.5	0.2	0.0	0.0	1.7
2020	1224.4	1195.1	632.0	212.7	3264.3	1.5	0.2	0.0	0.0	1.7

Table E.2 Commercial and industrial Tariff V by block (continued)										
	Port Pirie					Riverlands				
	0 - 0.9863 GJ	0.9863 - 4.274 GJ	4.274 - 11.178 GJ	> 11.178 GJ	Total	0 - 0.9863 GJ	0.9863 - 4.274 GJ	4.274 - 11.178 GJ	> 11.178 GJ	Total
2006	12.5	5.6	4.1	3.6	25.8	7.8	13.4	5.0	0.1	26.3
2007	12.6	6.3	3.7	2.2	24.8	8.0	12.9	2.7	0.0	23.7
2008	12.7	6.6	4.0	2.5	25.8	8.2	13.6	3.3	0.0	25.1
2009	13.3	6.5	3.8	2.7	26.3	8.1	13.1	2.6	0.0	23.8
2010	13.1	6.4	4.0	2.8	26.4	7.6	12.6	3.2	0.0	23.5
2011	13.3	6.5	4.1	2.9	26.7	7.7	12.8	3.2	0.0	23.8
2012	13.4	6.6	4.1	2.9	27.0	7.9	13.0	3.3	0.0	24.3
2013	13.5	6.6	4.1	2.9	27.1	8.0	13.2	3.4	0.0	24.6
2014	13.4	6.5	4.1	2.9	26.9	7.9	13.0	3.3	0.0	24.3
2015	13.3	6.5	4.1	2.9	26.7	7.9	13.1	3.3	0.0	24.4
2016	13.3	6.5	4.1	2.9	26.7	8.1	13.3	3.4	0.0	24.8
2017	13.4	6.5	4.1	2.9	26.9	8.2	13.6	3.5	0.0	25.3
2018	13.5	6.6	4.1	2.9	27.1	8.4	13.9	3.5	0.0	25.8
2019	13.6	6.7	4.2	2.9	27.4	8.6	14.2	3.6	0.0	26.4
2020	13.7	6.7	4.2	3.0	27.6	8.8	14.5	3.7	0.0	27.0

Table E.2 Commercial and industrial Tariff V by block (continued)

	South East					Whyalla				
	0 - 0.9863 GJ	0.9863 - 4.274 GJ	4.274 - 11.178 GJ	> 11.178 GJ	Total	0 - 0.9863 GJ	0.9863 - 4.274 GJ	4.274 - 11.178 GJ	> 11.178 GJ	Total
2006	32.2	27.1	13.6	6.5	79.4	13.0	9.7	4.5	2.7	29.9
2007	30.6	25.1	12.2	7.0	74.9	12.7	10.3	3.4	0.4	26.8
2008	32.2	26.5	13.4	10.8	82.9	13.9	10.7	4.5	1.9	31.0
2009	32.1	25.3	12.8	8.3	78.5	13.6	10.1	4.4	1.6	29.8
2010	31.5	25.8	12.9	8.1	78.3	13.4	10.4	4.2	1.6	29.6
2011	32.0	26.2	13.1	8.2	79.5	13.5	10.4	4.2	1.6	29.7
2012	32.6	26.7	13.4	8.3	81.0	13.5	10.4	4.3	1.6	29.8
2013	33.1	27.1	13.5	8.4	82.1	13.5	10.4	4.3	1.6	29.8
2014	32.8	26.8	13.4	8.4	81.4	13.3	10.2	4.2	1.6	29.3
2015	32.8	26.9	13.4	8.4	81.5	13.1	10.1	4.1	1.6	28.9
2016	33.2	27.2	13.6	8.5	82.5	13.0	10.0	4.1	1.6	28.8
2017	33.8	27.7	13.8	8.6	83.9	13.0	10.1	4.1	1.6	28.8
2018	34.4	28.2	14.1	8.8	85.5	13.1	10.1	4.1	1.6	28.9
2019	35.1	28.7	14.3	8.9	87.0	13.1	10.1	4.1	1.6	29.0
2020	35.7	29.2	14.6	9.1	88.7	13.2	10.1	4.2	1.6	29.0

Table E.2 Commercial and industrial Tariff V by block (continued)

	Total				
	0 - 0.9863 GJ	0.9863 - 4.274 GJ	4.274 - 11.178 GJ	> 11.178 GJ	Total
2006	1112.9	1075.4	567.9	182.5	2938.7
2007	1090.9	1059.9	553.9	184.4	2889.1
2008	1130.8	1091.9	579.1	199.2	3001.0
2009	1148.1	1109.4	572.2	216.8	3046.6
2010	1124.2	1087.0	570.0	196.1	2977.3
2011	1137.3	1099.8	576.6	198.4	3012.1
2012	1159.6	1121.4	588.0	202.3	3071.3
2013	1176.0	1137.4	596.4	205.2	3115.1
2014	1155.4	1117.4	585.9	201.6	3060.4
2015	1163.4	1125.3	590.1	203.0	3081.7
2016	1184.6	1146.1	601.0	206.7	3138.4
2017	1210.8	1171.6	614.4	211.3	3208.2
2018	1240.2	1200.3	629.5	216.4	3286.4
2019	1267.3	1226.6	643.3	221.1	3358.4
2020	1297.3	1255.9	658.7	226.4	3438.3