Network Capability Incentive Parameter Action Plan (2014-2019)

Project Number	18
Project Priority	5
Transmission Circuit / Injection Point	Substation
Project	Dynamic rating of Substation supply transformers
Scope of works	Purchase and install dynamic rating, monitoring, control and communication units on transformers and implement dynamic rating functionality. Implement dynamic rating functionality of the analysis as these transformers already have DRMCC's installed.
Reasons to undertake the project	Substation has the heaviest loaded transformers in the transmission network. and poperate in parallel as do poperate in parallel
Current value of the limit	The transformers and have a current firm limit of 2 and and have firm rating of
Target limit	Availability of dynamic ratings from the transformers , , and and at sum Substation. Application of dynamic ratings of the transformers referred above in real time operation.
Priority project improvement target	Enable to continue plant production for longer than hours in the event of loss of any of or .
Completion date	June 2015
Capital cost	\$180,000
Operating cost	\$20,000
Market Benefit	Full utilisation of transformer capacity and capability as per the improvement target above. The transformers will be able to supply in excess of their name plate rating in the event of loss of any one of their associated parallel unit. Taking into account the dynamic rating and ability to monitor temperature increase and life degradation of the transformers, it will enable the plant to run at normal load for longer duration without the need for load reduction to suit transformer name plate rating. The annualised market benefit is estimated at \$507k.