

Stevens, Kurt

From: Ben Crossling <ben.crossling@anu.edu.au>
Sent: Monday, 3 March 2014 7:47 PM
To: NSWACTelectricity
Cc: Wayne Ford; Stevens, Kurt
Subject: ActewAGL - Determination 2014-19

Categories: TRIM

Dear Team,

The ANU is working closely with ActewAGL Networks to reduce energy consumption for financial reasons, because it aligns with our Environmental Management Plan and because we have a new reporting requirements having triggered thresholds within the Energy Efficiency Opportunities Regulations 2013 Cth.

We have regular meetings with our ActewAGL and we were pleasantly surprised when we learned of a demand management scheme that I understand to be funded by the transmitters through the distributors. We have in fact been beneficiaries of a significant grant to install a minimum of 16 power factor correction (PFC) devices into LV installations. This grant does not cover the full cost of the installations but we believe that it is a good scheme and all parties that have inputted to getting it happening should be commended. We see installations of PFC into sites of LV demand and installations into HV distribution and transmission sites as an appropriate engineered solution. Further we see that overall system costs can be reduced by undertaking further demand management initiatives.

The obvious and higher yielding demand management initiatives apart from the basic abatement or curtailing that we will be looking into together over the next period are to transfer loads to off peak. ANU has a large opportunity to transfer load. We however need to see that these demands are planned for by the transmission and distribution service providers in conjunction with ANU and that these are detailed into the final AER submission:

We have been participating in increasingly open and meaningful dialog with ActewAGL Networks and we believe that ActewAGL are dealing appropriately with the transmitters.

The following are key demand management priorities that ANU are working with ActewAGL Networks on and we have no issue sharing outcomes of discussions with Transgrid:

- Demand reduction from heating and cooling loads.
- Transfer loads from electric to gas.
- Grid connection of existing generators or facilitation of connection points for application of external on skids installed generators.
- Curtailing demand for short periods subject to further negotiation.
- HV PFC installation.

In saying all this ANU has some concerns that the ActewAGL submission does not itemise the asset replacements of key aged ActewAGL assets on our campus. Specifically we would like to see that replacement of "bulk supply point 1 (BSP1)" is included in the appropriate asset replacement section of their submission. We see that if this asset renewal task requires the construction of a second bulk supply point as enabling work then this should be accounted and allowed in there submission. Further ANU should not have to pay the full and complete capital cost under the capital contribution code of Australian Capital Territory. We have been discussion this point for a while with ActewAGL and we see that we are settling on a shared understand of both organisations needs.

ANU would also like to see is that ActewAGL provide all asset replacement & augmentation projects with costs first without large scale customer side demand management schemes and then for them to comment on the effects with significant reductions that a larger demand management scheme could bring about so

that AER and the wider government can see how larger demand management initiatives such as district heating and cooling or embedded generation stack up.

ANU believe that the system costs of demand side initiatives whilst still capital intensive have larger effects to reduce transmission and distribution loads and that funding collected from previous determinations should be provided to demand management initiatives. Further we feel that wider government grants could be provided direct to ANU for agreed reductions to offset transmission and distribution augmentation.

Whilst I work in a Facilities & Service role we do have several programs that engage with the wider ANU academic community. Via these programs we have some capacity to actually model some of the above mentioned scenarios but we feel that more engineering modelling of options should be undertake to guide evidence based decisions and determinations. If AER have any capacity to extend our modelling efforts we believe that we could bring transmitters, distributors, funders (ANU & Government), customers (ANU) and academics to the table to solve this complex engineering problem to bring about the optimal solution.

Should you require further information about this submission please get back to me.

Regards

BEN CROSSLING

Asset Manager, Engineering & Technical Services, Facilities Planning
Facilities & Services Division
THE AUSTRALIAN NATIONAL UNIVERSITY

Level 3, Innovations Building, #124, Eggleston Road, ACT 0200.

T +61 2 6125 6077 | F +61 2 6125 7571 | M 0478 876 233

W facilities.anu.edu.au | E ben.crossling@anu.edu.au

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