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John Rampton
General Manager Market Design
Electricity Authority

By email: submissions@ea.govt.nz

Dear John

Operational Review Electricity Information Exchange

We appreciate the opportunity to submit to the Authority's consultation paper on *its operational review of the Electricity Industry Exchange Protocols (EIEP)* published 4 August 2017. This brief submission responds to the Authority's question, are there "any amendments that you would like to see made to EIEP3?"

For metering installations of Category 3 and higher, the file (EIEP3) used for the exchange of half hour (HHR) information between traders and distributors needs to convey the following energy information (required under Code 10.37 (1) (a)¹):

- import active energy (kWh)
- import reactive energy (kVArh) and
- export reactive energy kVArh.

The current EIEP3 format and documentation is a vertical csv. file with columns to record:

- import active energy kWh
- reactive power and kVArh and
- apparent energy KVAh.

Comparing the two lists shows that the current EIEP3 format does not support the exchange of information needed to meet the Code requirement. To do so, we suggest replacing the apparent energy (kVAh) in the EIEP3 with the export reactive energy kVArh. Our suggestion would also work if measuring import and export kWh and four quadrant kVArh².

Yours sincerely

Catherine Jones
Regulatory Affairs and Pricing Manager

¹ Part 10 sub-clause 10.37 (1)(a), for installations certified after 29 August 2013

² (as kVAh can be calculated from kWh and kVArh)