

Submission to Inquiry: Energy Consumption in Residential Buildings Inquiry.

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Confidentiality: **General submission** **Requested confidentiality**

RESPONSE TO NSW PARLIAMENT INQUIRY
INTO ENERGY CONSUMPTION IN RESIDENTIAL BUILDINGS

(please refer attachment regarding proposal to load shed)

SUMMARY ONLY

RESPONSE TO NSW PARLIAMENT INQUIRY INTO ENERGY CONSUMPTION IN RESIDENTIAL BUILDINGS

The terminology used in the Terms of Reference should clearly highlight the issue at hand (increased consumption resulting in additional greenhouse gas emissions or increased demand resulting in network failures). In addition, Terms of Reference should also include the ongoing IPART Inquiry on Electricity Networks.

Assuming the Inquiry is predominately focussed upon electricity demand (eg high kWh consumption over 30 minutes) producing generation problems, substation failures and /or localised blackouts or brownouts, the following comments are offered as food for thought.

"On the hottest day or the coldest day of the year, should the average consumer have the capability of switching on (some or all) non essential equipment such as:

- 1. pool pump*
- 2. dishwasher*
- 3. clothes dryer*
- 4. washing machine*
- 5. air conditioning system ?"*

Assuming the answer is "no", then the following question needs to be asked:

"Will the average person living a comfortable lifestyle be concerned about switching off electrical appliances in order to keep their electricity costs down?"

Assuming the answer is "no" once again, then there are limited options available to the electricity supplier. These include:

- a) use of metering technology to systematically control non essential loads,
- b) use of metering technology to duty cycle non essential loads (eg HOME "X" appliances on for one hour, off for one hour, HOME "Y" appliances off for one hour, on for one hour)
- c) use of existing supply authority hot water frequency switching controls to load shed additional non essential loads (as well as hot water systems).

I will gladly submit more details upon request.

Grahame Pepper