

DEMAND MANAGEMENT SCREENING TEST

East Wyong Zone Development

Short form DMST criteria

1. Supply side project cost less than \$5m Yes No

AND

2. Demand forecast > 110% of *system normal* limit within 12 months Yes No

OR

3. Demand forecast > 110% of *n-1 contingency* limit within 12 months Yes No

Definitions

The system under consideration consists of urban feeders. The "*system normal*" limit is 80% of the thermal rating of the feeders. The "*n-1 contingency*" limit is the combined capacity of the feeders with one element out of service.

Summary of Capacity and Demand Forecast

Forecast demand will exceed 110% of the system normal limit for two of the feeders within 12 months. Details of forecast demand versus capacity limits under normal conditions are summarised below. We also forecast that demand will exceed 110% of the limit under n-1 contingency conditions.

Panel	Scenario	80% of thermal capacity of limiting section (MVA)	2010/11 Summer Load forecast (MVA)	% of system normal limit
Wyong Pa 1	System normal	4.3	1.4	32%
Wyong Pa 10	System normal	4.7	5.7	121%
Wyong Pa 16	System normal	4.3	4.2	98%
Wyong Pa 17	System normal	2.3	3.6	159%
Wyong Pa 21	System normal	4.7	1.4	30%

Supply Strategy Option

The preferred supply-side option involves the replacement and uprating of various overhead feeder sections, along with some underground augmentations works and change of open points. The estimated project cost is \$1.03m. Commissioning is required before summer 2010/11, with an investment decision date as soon as possible.

Recommendation

This proposal meets the conditions for a short form demand management screening test. Based on this information it is not considered reasonable to expect that it would be cost-effective to postpone the proposed supply-side solution by implementing demand management strategies.