

18/11/2019

M12 Motorway (Roads & Maritime Services)

Re: M12 Motorway EIS

TransGrid operates and manages the high voltage electricity transmission network across New South Wales (NSW) and the Australian Capital Territory (ACT), with connections into Victoria and Queensland. These assets are owned by Electricity Transmission Ministerial Holding Corporation (ETMHC) and subject to a 99 year lease arrangement to TransGrid.

Existing Transmission Network Infrastructure

The existing transmission network includes overhead and underground transmission lines and substations across Western Sydney, between voltages of 330kV – 500kV.

These provide the core "highway" of electricity supplying Greater Sydney and the Sydney CBD.

The proposed M12 Motorway affects the following **Electrical**

Infrastructure Assets:

1. single circuit 330kV transmission lines (Lines 14 & 30)
2. double circuit 330kV transmission line (Lines 39)
3. double circuit 500kV transmission line (Lines 5A1 and 5A2)

Property Assets:

Registered easements (with and without existing infrastructure)

Future Transmission Network Infrastructure

The electricity supply chain within NSW is currently undergoing rapid transformation towards a low- carbon future. The augmentation of the transmission network within Western Sydney is critical to the future supply of bulk electricity to Greater Sydney and Sydney CBD.

Future augmentations include:

- a. New 500kV substation ("South Creek") located to the north of this area at Orchard Hills
- b. New 500kV transmission line from south of Sydney into the new 500kV substation

- c. Potential easement widening, modifications and upgrades to the existing transmission potentially required on our double circuit 330kV transmission line (Line 39)

Due to the anticipated future augmentation and expansion of the transmission network TransGrid request that the M12 development should have regard to the anticipated need to widen the existing easement along the Transmission Line 39 corridor.

TransGrid is currently working with RMS to review the impact to our infrastructure and consider design modification to accommodate the new motorway. TransGrid will continue to work with RMS to seek suitable a suitable outcome

It is requested RMS consider their design of the motorway to accommodate the potential expansion of TransGrid's transmission Line 39. This will contribute to the security of the electricity supply to the Greater Sydney and the Sydney CBD

Yours faithfully



Kenson Ho
Principal Land Economist
TransGrid