

Distributed Energy Resources (DER)

Information disclosure for the period 1 October 2021 – 31 December 2021

Reporting requirement

 the number of DER connected to Endeavour Energy's distribution network

225,987

 the volume of electricity exported into Endeavour Energy's distribution network from DER

549552401.9 kWh

 the top ten areas by postcode in Endeavour Energy's distribution district that have the highest levels of DER penetration by reference to volume of electricity exported and number of units and/or systems

Volume of electricity exported		
Postcode	MWh exported	
	(Oct – Dec 21)	
2530	185580355.7	
2560	52969518.16	
2571	44374070.69	
2766	12682679.47	
2765	6022435.979	
2155	3900782.767	
2762	3521554.376	
2570	3457977.64	
2769	3362044.816	
2164	3310373.203	

Number of units and/or systems		
Postcode	No.of systems	
2155	6,825	
2148	6,679	
2765	6,621	
2154	6,463	
2153	6,084	
2745	5,612	
2763	5,350	
2762	5,096	
2769	4,948	
2155	4,499	

a) Opex - \$0.49m

b) Capex - \$1m

•	the number of complaints from DER customers by reference to postcode relating to constraints impacting the export of electricity from DER	953 calls
•	the number of complaints from customers without DER affected by voltage issues or exceedance of thermal capacity limits due to DER	0
•	the number of customers that are subject to static limits on Endeavour Energy's distribution network due to DER	No limits in addition to the NSW service and installation rules that are applied. This limit is for a 30kW system per customer.
•	the number of DER customers that are actively being curtailed from exporting any electricity via a total static limit	There is no active curtailment on any system other than the limits applied for installation size as a part of the Service and Installation Rules.
•	the number of DER customers that are actively being curtailed from exporting some electricity via a partial static limit	There is no active curtailment on any system other than the limits applied for installation size as a part of the Service and Installation Rules.
•	the level of operating and capital expenditure by	

Endeavour Energy that is primarily for the purpose

of addressing network constraints on DER exports

(including reasons for expenditure options)



For the purposes of this report, the definitions for Distributed Energy Resources are taken from IPART's Electricity networks reporting manual - Distribution reliability and performance reporting dated June 2021.

DER means distributed energy resources comprising small generating units and generating systems located on the customer's side of the metering installation that export electricity into the licence holder's distribution network. For the purpose of this reporting manual, it excludes electric vehicles and their charging infrastructure.

Generating system means a system comprising one or more generating units with a total rating less than 30MW.

Generating unit has the same meaning given to that term in the National Electricity Rules.

Generator has the same meaning given to that term in the National Electricity Rules.

Partial static limit means the imposition of non-zero limits on the capability of the Generator to export to the grid.

Small generating unit means a generating unit:

- (a) with a nameplate rating that is less than 30MW; and
- (b) which is owned, controlled or operated by a person that AEMO has exempted from the requirement to register as a Generator in respect of that generating unit.

Thermal capacity limit means the maximum electrical current that, under ambient conditions, can be carried by the distribution feeder, without exceeding the thermal limits of the feeder.

Total static limit means the imposition of blanket limits on the capability of the Generator to export to the grid.