

Quarterly Information Disclosure about Distributed Energy Resources

1 July – 30 September 2022

Distributed Energy Resource (DER) Information 1 July – 30 September 2022

> Number of DER connected to Essential Energy's distribution network	237,962
> Volume of electricity exported into Essential Energy's distribution network from DER	237 GWh (estimated)
> Number of complaints from customers without DER affected by voltage issues or exceedance of thermal capacity limits due to DER	Number of validated complaints is currently not available
> Number of customers that are subject to static limits on the distribution network due to DER	43304
> Number of DER customers that are actively being curtailed from exporting any electricity via a total static limit	693
> Number of DER customers that are actively being curtailed from exporting some electricity via a partial static limit	42611
> Level of operating and capital expenditure by Essential Energy that is primarily for the purpose of addressing network constraints on DER exports (including reasons for expenditure options)	Information is currently not available

> Top ten areas by postcode in Essential 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		Volume of units and/or systems	
Postcode	MWh exported Jan to Mar	Postcode	Number of systems
2800	8,328	2480	7,687
2830	8,034	2830	7,555
2650	7,905	2444	6,580
2480	7,424	2650	6,181
2340	7,221	2486	5,972
2444	6,925	2450	5,808
2640	6,917	2478	5,472
2795	6,664	2340	5,403
2486	6,653	2800	5,057
2478	6,001	2640	4,999

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Number of complaints from DER customers by reference to postcode relating to constraints impacting the export of electricity from DER

Postcode	Number of validated complaints	Postcode	Number of validated complaints	Postcode	Number of validated complaints
2340	3	2482	1	4390	1
2350	5	2485	1		
2365	2	2580	2		
2370	2	2581	1		
2400	1	2582	1		
2429	1	2583	1		
2431	1	2590	1		
2440	1	2641	1		
2441	1	2650	1		
2443	1	2658	1		
2444	1	2680	1		
2446	2	2703	1		
2460	3	2795	2		
2470	1	2798	1		
2471	1	2800	3		
2474	1	2810	2		
2477	1	2821	1		
2478	1	2864	1		
2480	3	2871	2		
2481	1				

Definitions for Distributed Energy Resources

Term	Definition
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.