

# Quarterly Information Disclosure about Distributed Energy Resources

## 1 July – 30 September 2021

### Distributed Energy Resource (DER) Information 1 July – 30 September 2021

> Number of DER connected to Essential Energy's distribution network	222,467
> Volume of electricity exported into Essential Energy's distribution network from DER	226 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	31,984
> Number of DER customers that are actively being curtailed from exporting any electricity via a total static limit	407
> Number of DER customers that are actively being curtailed from exporting some electricity via a partial static limit	31,984 (includes customers with zero export)
> 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 Jul to Sep	Postcode	Number of systems
2480	6,966	2480	7,481
2486	5,996	2830	7,456
2444	5,957	2444	6,379
2830	5,856	2650	5,914
2340	5,481	2486	5,806
2478	5,357	2450	5,614
2450	5,300	2478	5,326
2800	4,484	2340	5,237
2650	4,474	2430	4,834
2460	4,470	2800	4,723

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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
2341	1	2627	1	2371	2
2360	1	2642	1	2440	2
2372	1	2646	1	2443	2
2424	1	2652	1	2469	2
2429	1	2655	1	2478	2
2441	1	2720	1	2580	2
2445	1	2730	1	2641	2
2446	1	2787	1	2430	3
2456	1	2795	1	2474	3
2470	1	2821	1	2820	3
2477	1	2825	1	2460	4
2479	1	2827	1	2640	4
2482	1	2831	1	2800	4
2486	1	2832	1	2650	5
2550	1	2834	1	2480	7
2551	1	2852	1	2619	7
2586	1	2871	1	2830	7
2590	1	4383	1	2620	13
2594	1	5417	1	2850	13
2621	1	2350	2		

## 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.