

# Quarterly Information Disclosure about Distributed Energy Resources

## 1 October – 31 December 2021

### Distributed Energy Resource (DER) Information 1 October – 31 December 2021

> Number of DER connected to Essential Energy's distribution network	226,238
> Volume of electricity exported into Essential Energy's distribution network from DER	318 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	35,740
> Number of DER customers that are actively being curtailed from exporting any electricity via a total static limit	527
> Number of DER customers that are actively being curtailed from exporting some electricity via a partial static limit	35,213
> 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 Oct to Dec	Postcode	Number of systems
2480	8,663	2480	7,586
2830	8,402	2830	7,517
2444	8,286	2444	6,491
2650	8,135	2650	6,049
2800	7,926	2800	5,895
2340	7,862	2340	5,722
2486	7,269	2486	5,405
2478	6,902	2478	5,323
2640	6,739	2640	4,920
2450	6,692	2450	4,911

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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
2344	1	2648	1	2643	2
2354	1	2652	1	2647	2
2371	1	2656	1	2655	2
2372	1	2658	1	2680	2
2380	1	2659	1	2850	2
2382	1	2703	1	2430	3
2390	1	2705	1	2431	3
2396	1	2791	1	2444	3
2404	1	2794	1	2450	3
2454	1	2797	1	2484	3
2455	1	2799	1	2580	3
2471	1	2820	1	2620	3
2473	1	2825	1	2866	3
2485	1	2827	1	2429	4
2486	1	2831	1	2464	4
2487	1	2871	1	2477	4
2489	1	2350	2	2480	5
2536	1	2439	2	2587	5
2546	1	2463	2	2795	5
2550	1	2469	2	2440	6
2579	1	2470	2	2460	6
2621	1	2478	2	2800	8
2627	1	2483	2	2446	9
2645	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.