

Quarterly Information Disclosure about Distributed Energy Resources

1 Apr – 30 June 2023

Distributed Energy Resource (DER) Information 1 April – 30 June 2023																																																	
> Number of DER connected to Essential Energy's distribution network	257,848																																																
> Volume of electricity exported into Essential Energy's distribution network from DER	297 GWh (estimated)																																																
> Number of complaints from customers without DER affected by voltage issues or exceedance of thermal capacity limits due to DER	Information is currently not available																																																
> Number of customers that are subject to static limits on the distribution network due to DER	51851																																																
> Number of DER customers that are actively being curtailed from exporting any electricity via a total static limit	1066																																																
> Number of DER customers that are actively being curtailed from exporting some electricity via a partial static limit	50785																																																
> 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.																																																	
<table border="1"> <thead> <tr> <th colspan="2">Volume of electricity exported</th> <th colspan="2">Volume of units and/or systems</th> </tr> <tr> <th>Postcode</th> <th>MWh exported Apr to Jun</th> <th>Postcode</th> <th>Number of systems</th> </tr> </thead> <tbody> <tr> <td>2480</td> <td>7,695</td> <td>2830</td> <td>8,302</td> </tr> <tr> <td>2830</td> <td>7,546</td> <td>2480</td> <td>8,228</td> </tr> <tr> <td>2444</td> <td>7,345</td> <td>2444</td> <td>7,598</td> </tr> <tr> <td>2486</td> <td>7,215</td> <td>2650</td> <td>7,306</td> </tr> <tr> <td>2340</td> <td>7,141</td> <td>2450</td> <td>6,558</td> </tr> <tr> <td>2450</td> <td>6,469</td> <td>2486</td> <td>6,431</td> </tr> <tr> <td>2478</td> <td>6,356</td> <td>2340</td> <td>6,238</td> </tr> <tr> <td>2800</td> <td>6,227</td> <td>2800</td> <td>6,174</td> </tr> <tr> <td>2650</td> <td>5,911</td> <td>2478</td> <td>6,063</td> </tr> <tr> <td>2460</td> <td>5,335</td> <td>2640</td> <td>5,862</td> </tr> </tbody> </table>		Volume of electricity exported		Volume of units and/or systems		Postcode	MWh exported Apr to Jun	Postcode	Number of systems	2480	7,695	2830	8,302	2830	7,546	2480	8,228	2444	7,345	2444	7,598	2486	7,215	2650	7,306	2340	7,141	2450	6,558	2450	6,469	2486	6,431	2478	6,356	2340	6,238	2800	6,227	2800	6,174	2650	5,911	2478	6,063	2460	5,335	2640	5,862
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> Number of complaints from DER customers by reference to postcode relating to constraints impacting the export of electricity from DER

Post Code	No of Work Orders
2340	1
2350	2
2365	1
2390	1
2444	1
2446	1
2447	1
2450	1
2454	1
2469	1
2470	1
2472	1
2480	5
2483	1
2640	3
2641	2

Post Code	No of Work Orders
2646	1
2669	1
2680	3
2710	1
2727	1
2731	1
2738	1
2787	1
2794	1
2800	2
2809	1
2820	1
2829	3
2865	2
West	1
Total	45

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.