Embedded Capacity Register (ECR)

Implementation Plan for inclusion of assets down to 50kW

December 2021
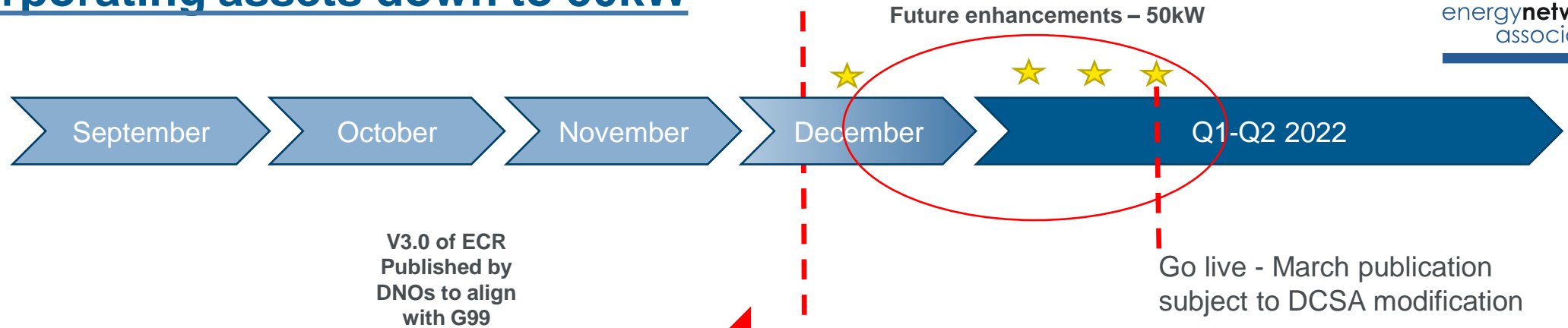
The voice of the networks

Agenda

1. Incorporating assets down to 50kW

2. Planned activities for 2022 – (PID development, covered later in agenda)

1. Incorporating assets down to 50kW

- The ECR (embedded capacity registers) has been developed by Open Networks under the Customer Connections & Information provision workstream over the years.

- The current ECR is published individually by DNOs in a common spreadsheet format and is updated monthly.

- This ECR data includes a list of generation projects accepted to connected or already connected to networks with a capacity of **>1MW.**

- As part of the scope for this year, Open Networks has identified the need to extend the current ECR to include assets up to **50KW,** which significantly increases the amount of data.

- The product team has established that given the scale of data, a spreadsheet solution will no longer be appropriate and a database solution would be necessary.

1. Incorporating assets down to 50kW

Future enhancements – 50kW

September → October → November → December → Q1-Q2 2022

**V3.0 of ECR
Published by
DNOs to align
with G99**

Go live - March publication subject to DCSA modification

CURRENT DCUSA MOD ONLY COVERS ASSETS TO 1MW

Embedded Capacity Register   Version 3.0 (of template)

Last Updated [DD/MM/YYYY]:

DCUSA

About

Embedded Capacity Register: means, for each DNO/IDNO Party, a register of site-specific data items for sites which are connected to the DNO/IDNO Party's Distribution System (or which are the subject of an accepted connection offer to be connected to the Distribution System), and which: (a) have an import capacity of 1 MW or more and are subject to a DSR Contract; and/or (b) have generation with a registered capacity of 1 MW or more. The required register format and data items are described in Schedule 31 (Embedded Capacity Register).

This Embedded Capacity Register (ECR) includes details of connected generation (including storage) and flexible demand resources connected to [name of DNO/IDNO]'s Distribution System.

Generation assets are included where the Registered Capacity is greater than or equal to 1MW.
Sites providing Demand Side Response (DSR) are included where the contracted capacity is greater than or equal to 1MW.

Part 1 of the ECR provides information on generation (including storage) assets.
Part 2 of the ECR provides information on demand sites providing Demand Side Response (DSR) services.

The sheets that make up the ECR are:
 Definitions Part 1 - this describes the different data fields used in Part 1 of the ECR.
 Register Part 1 - this comprises a list of generation (including storage) assets.
 Definitions Part 2 (DSR) - this describes the different data fields used in Part 2 of the ECR.
 Register Part 2 - this comprises a list of demand sites providing DSR services.

Contacts and other useful information

Contact details	
If you believe that any details pertaining to your site or a specific site are incorrect then please use the contact details provided to notify us so that the details can be corrected in the next version.	DNO/IDNO to provide contact details

| Regional Maps | Please see the 'Electricity distribution map' section on the following website: |

2. Planned activities for 2022

		A	ECR digitalisation design phase	Agree on the overall solution architecture: centralised or decentralised	The implementation phase will be dependent on the selected architecture. It is therefore critical to complete this task quickly	End of January 2022
		B	Code modifcation	Revised DUCUSA mod	revison to Modification of the code to allow for pubication of upto 50kW DER Info	Jan 22 Feb 22
		C	Publication of new ECR Version	Updated ECR	The new version ECR shall include first stab of DER data upto 50kW (Incorporated as an additional tab albeit in the same layout of the existing ECR)	Jan 22 Mar 22
P1	Embedded Capacity Register	D	ECR digitalisation implementation (decentralised-Phase-1)	1) Agree on a standardised machine readable format for the ECR 2) Agree on the API architecture required to push ECR data.	The key elements are to agree on a common and standardised format, then draw up a blueprint for the API architecture that'll be used to serve the ECR data. The implementation of API endpoints will have to be done by each DNO, DDSG rep (me) will be available for guidance and troubleshooting if required.	Feb 22 - July 2022
		E	Data updates	Updated ECR	Imprve Qualitiy of data for DER data for both upto 1MW and down to 50kW level	Apr 22 - Dec 22
		F	ECR digitalisation implementation (decentralised-Phase-2)	Combined Testing report	Build and test the API as per deliverable (D). This will be done by each DNO individually with guidance from DDSG rep if needed.	Aug 22 - Dec 2022