



CAP24 Grid Development Report (Distribution)

ESB Networks Response to Climate Action Plan EL / 24 /15

EL/24/15	Submit to DECC timelines of large-scale onshore grid development projects to be delivered in 2024 and publish an appropriate version
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Background

As per CAP action EL/24/15, System Operators are to submit a report on large-scale onshore grid development projects to be delivered in 2024 to DECC and publish an appropriate version of same.

This document is the ESB Networks response in Q1 2024 to that action.

Rationale

This report contains information relating to grid development projects that either have been or are forecast to be delivered / energised to the electrical distribution system in the Republic of Ireland in 2024.

The projects are split into three distinct elements:

1. Grid reinforcement
2. Generation connection
3. Demand connection

Grid Reinforcement

These are larger scale distribution projects that are required to reinforce the high voltage electrical distribution system which either have been energised or are forecast to be energised in 2024. High voltage distribution projects are classified as having a voltage level of 110 kV or 38 kV in ESB Networks distribution system.

Note that projects classified as Asset Replacement are not included in this list. These are projects that are required to replacement equipment on the system to address issues such as obsolescence.

Generation Connections

These are larger scale distribution projects driven by and attributable to a request for a generation connection to the distribution system. This includes all utility scale generation projects, including renewables, conventional generation (thermal) and battery energy storage which either have been



energised or are forecast to be energised in 2024. Mini, micro and small-scale generation are all excluded.

In addition, the Maximum Export Capacity (MW) for each project has been provided, along with the generation technology type.

Demand Connections

These are larger scale distribution projects driven by and attributable to a request for a demand connection to the distribution system. These are defined in this report as projects that have a Maximum Import Capacity equal to or in excess of 4 MVA.

In addition, the Maximum Import Capacity (MVA) for each project has been provided.

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Distribution 2024 Projection - Summary Report (ESB Networks Website Version)

Publication: **Quarter 1 2024**

Information correct: **27/03/2024 (Quarter 1)**

Category	Export Capacity (MW)	Import Capacity (MVA)	Tech/Voltage Type	Contestability	Status	Target EI Quarter
<i>Demand Connection</i>		4.5	<i>Demand</i>		<i>Energised</i>	<i>2024 Q1</i>
<i>Generation Connection</i>	0.9		<i>Wind</i>	<i>Contestable</i>	<i>Energised</i>	<i>2024 Q1</i>
<i>Generation Connection</i>	4.95		<i>Solar</i>	<i>Contestable</i>	<i>Energised</i>	<i>2024 Q1</i>
<i>Demand Connection</i>		4	<i>Demand</i>		<i>Energised</i>	<i>2024 Q1</i>
<i>Reinforcement</i>			<i>110 kV</i>		<i>2024 Projection</i>	<i>2024 Q1</i>
<i>Generation Connection</i>	3.99		<i>Solar</i>	<i>Contestable</i>	<i>2024 Projection</i>	<i>2024 Q2</i>
<i>Generation Connection</i>	7.14		<i>Solar</i>	<i>Contestable</i>	<i>2024 Projection</i>	<i>2024 Q2</i>
<i>Generation Connection</i>	4.95		<i>Solar</i>	<i>Contestable</i>	<i>2024 Projection</i>	<i>2024 Q2</i>
<i>Generation Connection</i>	4.95		<i>Solar</i>	<i>Contestable</i>	<i>2024 Projection</i>	<i>2024 Q2</i>
<i>Generation Connection</i>	4.95		<i>Solar</i>	<i>Contestable</i>	<i>2024 Projection</i>	<i>2024 Q2</i>
<i>Generation Connection</i>	4.95		<i>Solar</i>	<i>Contestable</i>	<i>2024 Projection</i>	<i>2024 Q2</i>
<i>Generation Connection</i>	4		<i>Solar</i>	<i>Non-Contestable</i>	<i>2024 Projection</i>	<i>2024 Q2</i>
<i>Generation Connection</i>	8.42		<i>Solar</i>	<i>Non-Contestable</i>	<i>2024 Projection</i>	<i>2024 Q2</i>
<i>Demand Connection</i>		5.3	<i>Demand</i>		<i>2024 Projection</i>	<i>2024 Q2</i>



Category	Export Capacity (MW)	Import Capacity (MVA)	Tech/Voltage Type	Contestability	Status	Target EI Quarter
Generation Connection	0.6		Solar	Non-Contestable	2024 Projection	2024 Q2
Generation Connection	0.6		Battery	Non-Contestable	2024 Projection	2024 Q2
Demand Connection		6.5	Demand		2024 Projection	2024 Q2
Demand Connection		4	Demand		2024 Projection	2024 Q2
Reinforcement			110 kV		2024 Projection	2024 Q2
Reinforcement			110 kV		2024 Projection	2024 Q2
Reinforcement			110 kV		2024 Projection	2024 Q2
Generation Connection	4		Solar	Contestable	2024 Projection	2024 Q3
Demand Connection		44.1	Demand		2024 Projection	2024 Q3
Generation Connection	4		Solar	Contestable	2024 Projection	2024 Q3
Generation Connection	21		Solar	Contestable	2024 Projection	2024 Q3
Generation Connection	8		Solar	Contestable	2024 Projection	2024 Q3
Generation Connection	4		Solar	Contestable	2024 Projection	2024 Q3
Generation Connection	4		Solar	Non-Contestable	2024 Projection	2024 Q3
Generation Connection	4		Solar	Contestable	2024 Projection	2024 Q3
Generation Connection	4		Solar	Contestable	2024 Projection	2024 Q3
Generation Connection	4		Solar	Non-Contestable	2024 Projection	2024 Q3
Reinforcement			38KV		2024 Projection	2024 Q3
Reinforcement			110 kV		2024 Projection	2024 Q3
Reinforcement			38KV		2024 Projection	2024 Q3



Category	Export Capacity (MW)	Import Capacity (MVA)	Tech/Voltage Type	Contestability	Status	Target EI Quarter
Generation Connection	3.99		Solar	Contestable	2024 Projection	2024 Q4
Demand Connection		15	Demand		2024 Projection	2024 Q4
Generation Connection	4		Solar	Non-Contestable	2024 Projection	2024 Q4
Generation Connection	0.5		Biogas	Non-Contestable	2024 Projection	2024 Q4
Generation Connection	115.2		Thermal	Non-Contestable	2024 Projection	2024 Q4
Generation Connection	0.5		Solar	Non-Contestable	2024 Projection	2024 Q4
Generation Connection	12		Battery	Contestable	2024 Projection	2024 Q4
Generation Connection	3		Wind	Non-Contestable	2024 Projection	2024 Q4
Generation Connection	4.95		Solar	Contestable	2024 Projection	2024 Q4
Generation Connection	4.2		Wind	Contestable	2024 Projection	2024 Q4
Generation Connection	5.95		Solar	Contestable	2024 Projection	2024 Q4
Generation Connection	15		Wind	Contestable	2024 Projection	2024 Q4
Generation Connection	4		Solar	Non-Contestable	2024 Projection	2024 Q4
Generation Connection	4		Solar	Non-Contestable	2024 Projection	2024 Q4
Demand Connection		6	Demand		2024 Projection	2024 Q4
Demand Connection		9.9	Demand		2024 Projection	2024 Q4
Generation Connection	8.5		Solar	Contestable	2024 Projection	2024 Q4
Demand Connection		5	Demand		2024 Projection	2024 Q4
Generation Connection	8		Solar	Contestable	2024 Projection	2024 Q4



Category	Export Capacity (MW)	Import Capacity (MVA)	Tech/Voltage Type	Contestability	Status	Target EI Quarter
Generation Connection	0.06		Solar	Non-Contestable	2024 Projection	2024 Q4
Demand Connection		40	Demand		2024 Projection	2024 Q4
Demand Connection		4.5	Demand		2024 Projection	2024 Q4
Demand Connection		4	Demand		2024 Projection	2024 Q4
Demand Connection		4	Demand		2024 Projection	2024 Q4
Reinforcement			38KV		2024 Projection	2024 Q4
Reinforcement			110 kV		2024 Projection	2024 Q4
Reinforcement			38KV		2024 Projection	2024 Q4
Reinforcement			38KV		2024 Projection	2024 Q4
Reinforcement			38KV		2024 Projection	2024 Q4
Reinforcement			110 kV		2024 Projection	2024 Q4
Reinforcement			110 kV		2024 Projection	2024 Q4
Reinforcement			38KV		2024 Projection	2024 Q4
Reinforcement			110 kV		2024 Projection	2024 Q4
Reinforcement			38KV		2024 Projection	2024 Q4
Reinforcement			38KV		2024 Projection	2024 Q4
Reinforcement			38KV		2024 Projection	2024 Q4
Reinforcement			38KV		2024 Projection	2024 Q4
Reinforcement			38KV		2024 Projection	2024 Q4
Reinforcement			38KV		2024 Projection	2024 Q4
Reinforcement			38KV		2024 Projection	2024 Q4



Category	Export Capacity (MW)	Import Capacity (MVA)	Tech/Voltage Type	Contestability	Status	Target EI Quarter
<i>Reinforcement</i>			<i>110 kV</i>		<i>2024 Projection</i>	<i>2024 Q4</i>
<i>Reinforcement</i>			<i>110 KV</i>		<i>2024 Projection</i>	<i>2024 Q4</i>
<i>Reinforcement</i>			<i>38KV</i>		<i>2024 Projection</i>	<i>2024 Q4</i>
<i>Reinforcement</i>			<i>38KV</i>		<i>2024 Projection</i>	<i>2024 Q4</i>
<i>Reinforcement</i>			<i>110 kV</i>		<i>2024 Projection</i>	<i>2024 Q4</i>
<i>Reinforcement</i>			<i>38KV</i>		<i>2024 Projection</i>	<i>2024 Q4</i>
<i>Reinforcement</i>			<i>38KV</i>		<i>2024 Projection</i>	<i>2024 Q4</i>
<i>Demand Connection</i>		<i>5.9</i>	<i>Demand</i>		<i>2024 Projection</i>	<i>2024 Q4</i>



Notes

Export Capacity refers to Maximum Export Capacity (MW)

Import Capacity refers to Maximum Import Capacity (MVA)

EI refers to Energisation Instruction

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