

A network fit for Net-Zero: Making the most of Cork's Renewable Energy

Date: 16th January 2025



Vision

*A world powered by
sustainable infrastructure*



Mission

*To organise all the
information on real assets
to build the sustainable
infrastructure of the
future*



A world powered by sustainable infrastructure



Cork – Energy Powerhouse of Ireland



Kinsale Gas Field



Ireland's only
refinery



1 GW of thermal
generation and
connection to
France



1 GW renewable
assets

Cork – Key Figures



Electricity Demand
2.9 TWh ~ 10% of
national demand



Industrial heat
load of 2.3 TWh



Lost energy of
0.3TWh over 12
months



Knockraha in 2030
lost energy of
0.3TWh

What drives lost energy?

A clear understanding of the definitions on constraint, curtailment and oversupply are important to see where we are going.

Constraint

Too much power in the
wrong areas

Curtailment

Too much non-synchronous
power

Oversupply

Too much power

What is expected to happen in 2030?

34%

Max Dispatch Down (%) mullingar



560.33

Max Dispatch Down (GWh) moneypoint
220kv



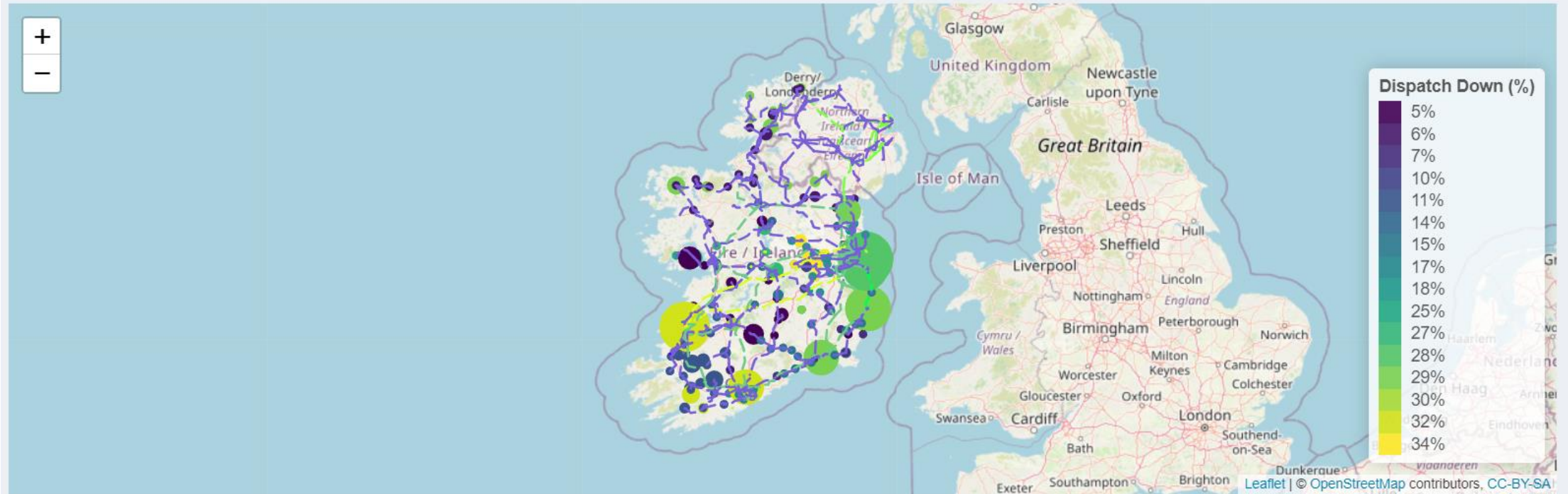
9,291

Total Dispatch Down (GWh)



2,212,105

Households equivalent of dispatch down
energy



Where are we seeing these losses? Geographical and Temporal

In percentage terms Northern Ireland assets are seeing large lost energy, but Cork and Kerry are seeing larges volumes (GWh) lost.

4,746

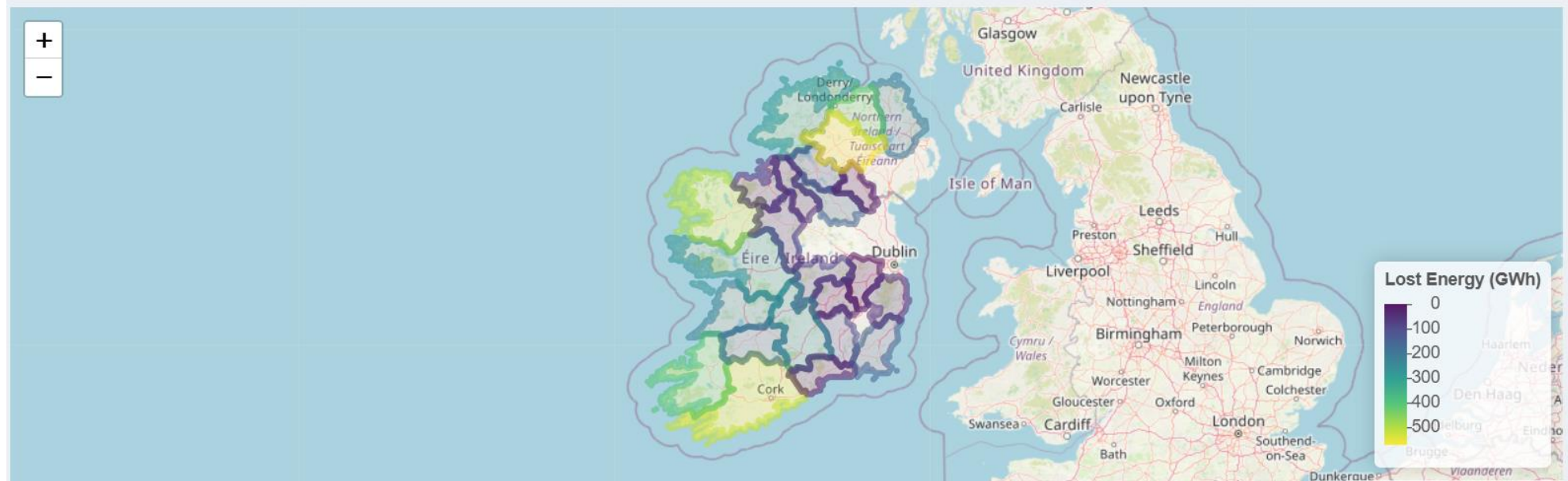
Total Lost Energy (GWh)

19,479

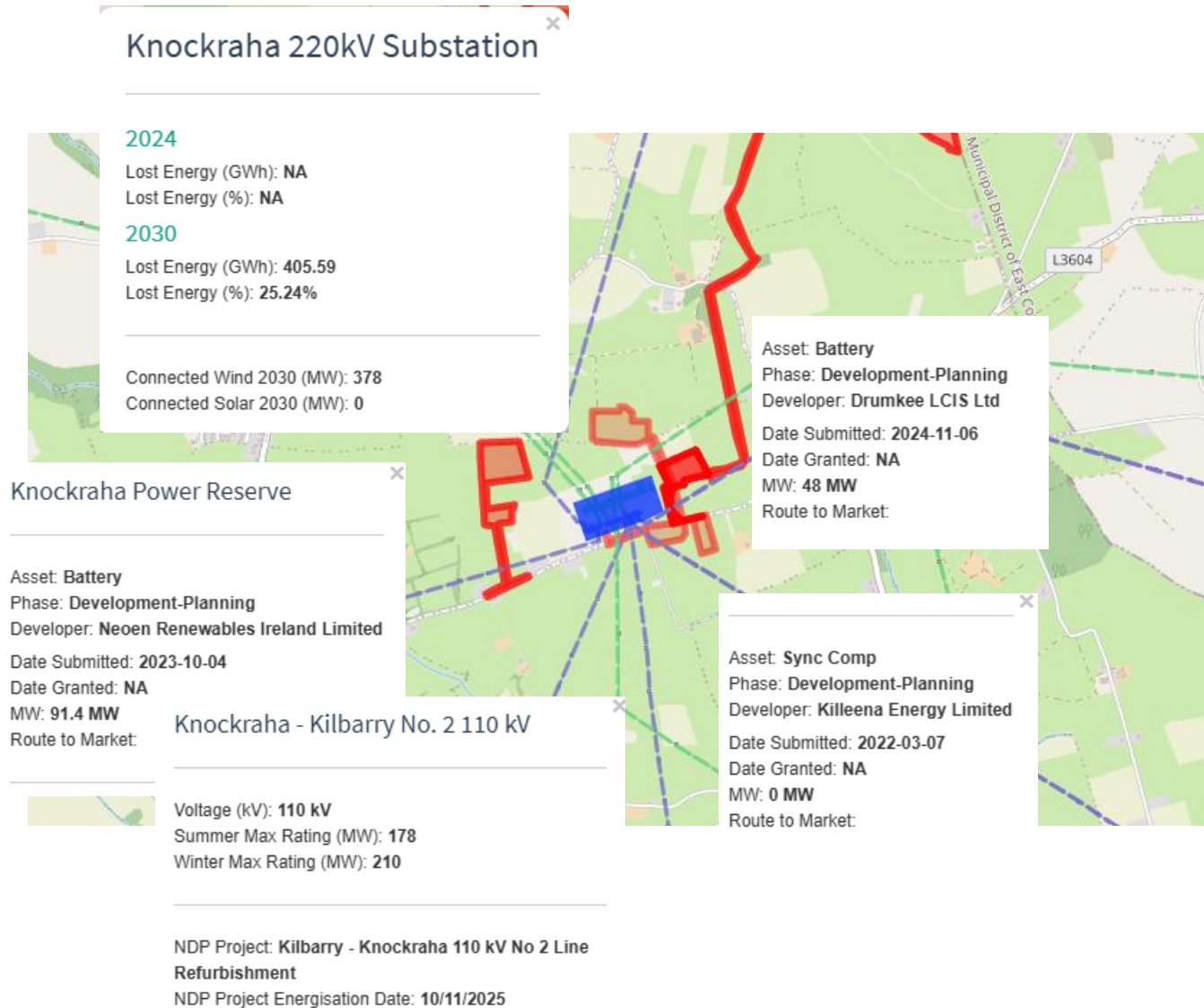
Total Generation (GWh)

19 %

Average Lost Energy %

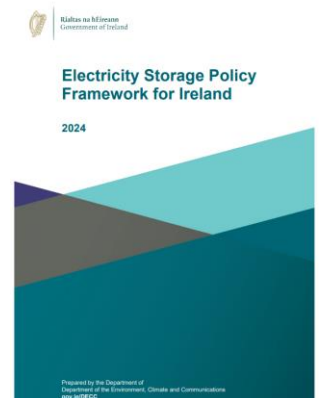
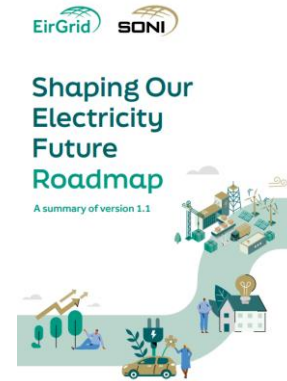


But what are we seeing on the ground?



What solutions are there?

- 1 Delivery of grid improvements
- 2 Incentivise electricity usage and reduce barriers to entry
- 3 Support flexibility and storage



We have had problems of excess before.....

“

Gasoline was then only an almost useless by-product, which sometimes managed to be sold for as much as two cents a gallon, and, when it could not be sold at all was run into the rivers at night

”

The Prize- Daniel Yergin