

DSO

DISTRIBUTION SYSTEM OPERATOR

WEF Onshore Energy System

5 November 2024

UK
Power
Networks 
Delivering your electricity



About UK Power Networks

Three distribution networks:

- London
- East of England
- South East of England

Measure	Data	% of industry
End customers	8.5m	28%
Population served	c.20m	-
Distributed generation connected	10GW	31%
Energy distributed	74TWh	28%
Peak demand	14GW	31%
Total length of network	188,476km	N/A
Area served	29,250km ²	N/A

Delivering *our vision*

Our vision is informed by our employees, consumers and wider stakeholders



Decarbonisation – today's status

Distributed Generation

- **9.5GW** of DG connected
- Over **200,000** homes with solar panels

Energy Storage

- **1GW** of operational capacity
- **600MW** commissioned over the last 12 months

Electric Vehicles

- **660,000** plug-in and BEV vehicles connected on our networks

Heat Pump

- **50,000** heat pumps connected on our networks

Enabling a clean power system

Efficient deployment of capital – lowest cost to Net Zero

Undertake robust customer engagement

- Strategic
- Robust
- Locally focused



Example:
Supporting Local Government in their Climate ambitions

Collaborate beyond traditional silos to deliver joined up services for customers

- Whole electricity
- Transport
- Heat



Example:
Work with the TO/NESO to connect renewables faster

Provide the necessary capacity

- Optimise existing capacity
- Invest on new assets



Example:
World's leading DSO flexibility market

Embrace innovation, technology and data

- Faster
- Cheaper
- Greener



Example:
Open sourcing connections data and processes

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Thank you

Join our mailing list
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