

We do more than just produce energy,

E.ON is one of the UK's largest power and gas companies – generating and distributing electricity, and supplying power and gas to millions of homes and businesses nationwide.



Offshore wind farm



Gas-fired CHP construction at Grain

we build for the future

And Kent and the south east of England are at the heart of what we do.

We're a major developer and operator of power stations

On the Isle of Grain having commissioned three new CCGT units and the CHP link which is one of the biggest industrial CHP supplies in Europe. Grain CHP is currently under commissioning and will begin to operate commercially in June, providing up to 341 MW of thermal energy for vaporising liquefied natural gas at the nearby Grain LNG terminal. This will save up to 350 000 tonnes of CO2 a year and raise total efficiency of the power station from 58.5% to 73%. We are pioneering in energy production, both in revolutionary technology and ambitions for making Cleaner, Better Energy. Working with Grain LNG a critical stakeholder, how we deliver the flexibility necessary to meet our customers' needs and how the two businesses could work together to mutual benefit. "It is great to be able to show how we can use our highly flexible CHP units to maximise performance and minimise carbon emissions."

We're a major developer and operator of onshore and offshore wind farms

We've committed, with our partners, Dong Energy and Masdar, to build the world's largest offshore wind farm – the London Array – in the outer Thames Estuary. When complete, this wind farm will be capable of producing enough renewable electricity to supply up to a quarter of the homes in Greater London and offset emission of 1.9 million tonnes of carbon emissions each year.

We're determined to lead the way in finding new ways to provide secure, affordable energy and to address the threat of climate change

The south east of England has the highest electricity demand in the UK. This is set to grow, particularly as in the future we move towards the electrification of transport, which is why we're committed to exploring new technologies. Existing power stations like our own at Kingsnorth and Grain are set to close and the need to tackle climate change grows ever more urgent. So we need to replace this lost capacity in a way that ensures affordability and security of energy supply while being mindful of our impact on the environment.

E.ON is the third largest offshore wind player in the world and drives development through investments. The goal is to further enhance competitiveness of offshore wind.

London Array UK

Total Capacity (MW)	1,000
Start of construction	2011
Start of operation	2013 (phase 1)
Distance to shore (km):	22
No of wind turbines	175
Hub Height (m)	87
Rotor diameter (m)	120
Annual Home equivalent	750,000
Saved Co2 emissions (t/a)	1.9m
Total investment	2.2bn euros



Photo: Courtesy NASA©