

# 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 we're more than half way through construction of a new gas-fired CHP (Combined Heat and Power) plant that will provide enough electricity for over one million homes and businesses. The plant will also provide excess heat to the nearby Grain Liquefied Natural Gas (LNG) facility and help save 350,000 tonnes of carbon emissions every year by replacing fossil fuels that would otherwise have been used in the LNG gasification process.

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. This is why we're hoping to replace the current coal-fired plant at Kingsnorth with cleaner, more efficient coal units that we can use as a test bed for the development of pioneering carbon capture and storage (CCS) technology.

## 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 harmful greenhouse gases each year.

Our vision for the development of CCS is the creation of a 'Thames Cluster' of projects that would see carbon captured from sites including the Kingsnorth demonstration plant and transported via a single pipeline up to the southern North Sea for storage in depleted gas fields.

## 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.

A Thames Cluster would provide the south east with the potential to lead the world in the development of low carbon technology. It would also significantly increase the potential for investment by other local carbon producers and with it, even further advances in technological development.

E.ON's CCS project at Kingsnorth, financed in part with EU and UK government funding, would provide a multi-billion pound boost to the local economy as well as a low-carbon infrastructure attractive to future industrial investment. Carbon capture and the opportunities it brings for further low-carbon energy development will greatly reduce the release of carbon into the atmosphere, enabling the whole of the south east of England to decarbonise. This represents an unmissable opportunity for the future of the region.



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