

Powering the Solent:

To be the UK's leading gateway for innovative and sustainable heat and power solutions by 2050

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Vision: To be the UK's leading gateway for innovative and sustainable heat and power solutions by 2050

Local Enterprise Partnerships (LEPs) are responsible for ensuring opportunities for economic development in their local area are identified and maximised.

This Solent Heat and Power Strategy recognises that energy generation drives economic growth and prosperity for the region. Innovation in low carbon and energy efficiency are significant economic opportunities for the Solent and align with the Clean Growth Grand Challenge in the Industrial Strategy.

Working with the Carbon Trust, Solent businesses, local authorities, academia and the third sector, we've developed an action plan, benchmarking our energy needs today, how we secure our future requirements and capitalising on our strengths to do even better. Our long-term vision which focuses in six priority areas, is to be the UK's leading gateway for innovative and sustainable heat and power solutions by 2050.

It is a transformative approach that will see the Solent region increase productivity and prosperity while securing sufficient energy to do so. We are keen to empower and support communities, businesses, the public sector, education providers, researchers and others, to make it a reality and place the Solent at the leading edge of clean growth innovation.

Here we set out just some of the ideas in our plan across our six priority areas, to support the Solent region to become the UK's leading gateway for innovative and sustainable heat and power solutions by 2050.

The Solent region - economy in numbers

£31bn

annual value of Solent economy





42,000
jobs in sectors
including marine,
maritime,
manufacturing
and engineering

jobs in wind turbine manufacture at MHI Vestas Offshore Wind



29%

proportion of renewable or low carbon sources in current installed electrical capacity



5.2

terawatts of electrical energy generated in the Solent in 2015, of which 11% came from renewable sources





300

homes to receive retrofit energy measures in the Havant Council area by 2020



2020

Southampton Green City Charter to be implemented



100%

the Isle of Wight's target for self-sufficiency in renewable energy



How to embrace the energy system revolution

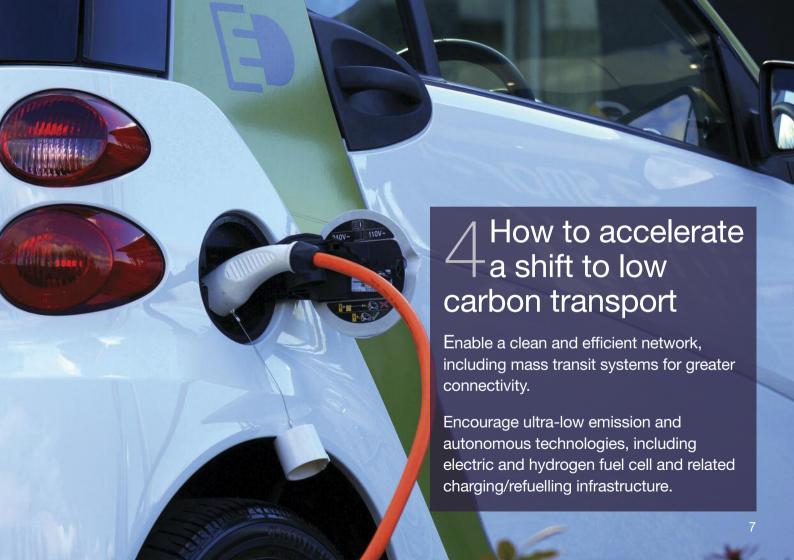


Capitalise on the Solent's existing web science and digital sector strengths.

Deploy smart grid technologies, including demand-side response, smart meters and energy storage.

Images: Pixaba









The role of Solent LEP

We have a principal role for economic growth leadership in the Solent. The energy infrastructure contributes to and supports the wider economy and is a key component / factor in unlocking future growth.

To achieve the vision of the Solent region becoming the UK's leading gateway economy by 2050, the LEP will need to secure the commitment of and work in partnership with a wide range of organisations, including the South West Energy Hub.

Drawing on expertise from within the Solent and further afield, there needs to be a collective focus on capability, resources and finance to turn the vision into a reality for the Solent area.

Putting plans into action

To make this proposition a reality and to support the wider work of the Local Industrial Strategy, a set of strategic areas for heat and power generation to be explored across the Solent are set out:

- Smart Ports
- Solar
- Hydrogen
- Transport
- Wind

Our action plan seeks to develop the following:

SMART PORTS

Maritime technology: The ports of Southampton and Portsmouth offer a significant strategic opportunity for the clean energy sector. Already its 2,000 roof-mounted solar panels make Southampton's Ocean Terminal the UK's first carbonneutral cruise terminal.

There is scope in both Southampton and Portsmouth to develop emission-reducing technologies for vessels at sea and in port, and to achieve more on-shore industrial automation.



WIND

Offshore potential: The Solent has a rapidly growing off-shore wind sector with major companies such as MHI Vestas Off-shore Wind investing in the Solent, building on its existing workforce and supply chain strengths. Further sector potential is anticipated with a new round of seabed leasing by the Crown Estate.

SOLAR

Sun power: In 2015, 11% of the energy generated in the Solent came from renewable sources. Recent developments such as Newlands Solar Farm in Fareham, generating energy to power 5,500 homes per year, and the Cadland Estate in Fawley, providing enough electricity to power around 1,000 homes, are contributing to this figure.









