



# Greater Brighton Energy Plan

Greater Brighton Economic Board 14 July 2020

## Summary

# Greater Brighton Energy Plan commits to a resilient, net zero carbon, smart energy system

*“Greater Brighton commits to a resilient, net zero carbon and smart energy system that enables and supports a sustainable and healthy economy, environment and society across the city region”*

- Commissioned by GBEB in 2018
- 166 GB Infrastructure Panel has oversight of Energy Plan
- Funded by Interreg SOLARISE programme and GBEB
- Builds on Tri-LEP South 2 East Local Energy Strategy 2018
- Technical report by consultants Buro Happold available [on request](#)

**Interreg**   
EUROPEAN UNION  
**2 Seas Mers Zeeën**  
**SOLARISE**

European Regional Development Fund

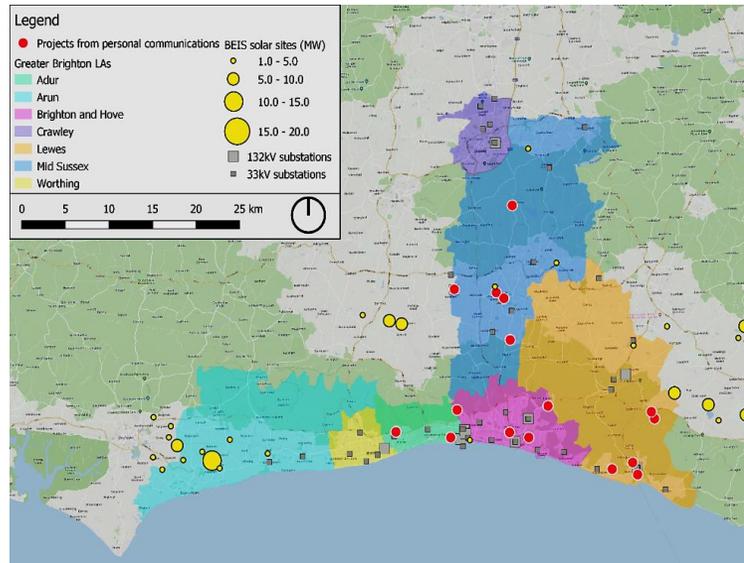
## Stakeholder Engagement

- Extensive stakeholder engagement with local authorities, business, universities, public institutions, community energy companies, utilities, consultants
- Energy Working Group meets regularly and links with Water Working Group
- Workshops on electric vehicle charging infrastructure, low carbon heating and decarbonising rural communities

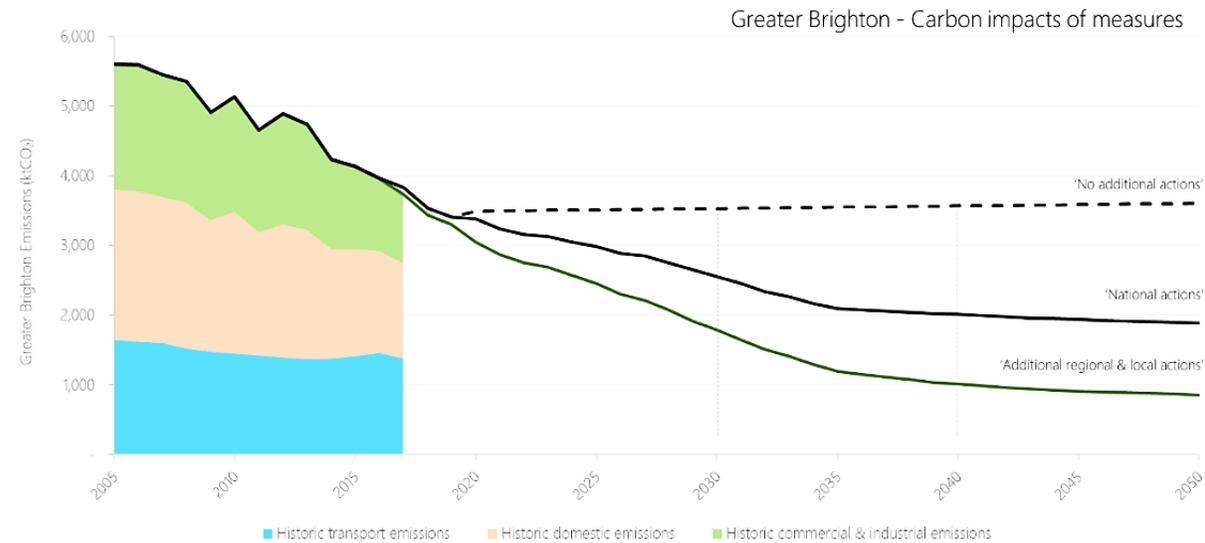
# There are many opportunities for innovation and scaling up to create a cleaner energy system

## Challenges & opportunities

- Assessment of renewable energy technologies, their applicability and readiness for implementation
- GIS mapping of renewable energy resources and opportunities shows:
- Good resources of sun, wind and sea, but geographical constraints of dense urban areas and many protected landscapes
- Large rural areas are not on gas grid
- Most housing is not up to current standards for energy efficiency
- 2 ports but little heavy industry



Carbon reduction scenario modelling shows intensive action is needed to achieve net zero / carbon neutral targets



Energy Plan stakeholders have a pipeline of investable project opportunities that will

- transform our regional energy systems
- scale up and coordinate existing activity
- Enhance community engagement in renewable energy

# Energy Plan identifies over 30 investable pipeline projects

168

## Low carbon heat

- Shoreham Port Heat Network
- Heat from Waste Water
- Worthing Civic Quarter Heat Network
- Firle village heat network
- Anaerobic Digestion

## Transport revolution

- Riding Sunbeams
- Electric Vehicle Charging infrastructure – West Sussex, Brighton, East Sussex and other LAs

## Renewable generation

- Hydrogen Hub
- Solar farms
- Community solar accelerator
- Solar schools
- Solar Together Sussex
- Solar + EV Car parks

## Smart energy systems

- Communiflex low carbon village
- Smart Local Energy Systems – Worthing
- Halewick Lane Battery Storage

## Energy efficiency

- Homes retrofit – Warmer Sussex
- Domestic energy efficiency – LEAP
- Decarbonising social housing at scale
- Decarbonising civic buildings – Worthing

## Delivery & innovation

- Energy Fund
- Innovation Forum - Energy and Water
- Delivery vehicle

# Work is already underway to build a delivery strategy

## Continuing our collaboration

- GB Energy Working Group will continue to work, focussed on delivery
- Innovation Forum on Water and Energy starts July 2020, sponsored by University of Sussex with collaboration of University of Brighton
- Hydrogen group starts July 2020 to map potential for green hydrogen and promote development of supply chain, production, distribution, use
- Expanding partnerships with community energy companies

## Taking projects forward

- Identifying skills gaps eg heat pump installers, retrofit coordinators
- Increased renewable generation from public assets
- Identifying projects for investment to contribute to a green recovery from Covid19
- Investigating potential for joint delivery of social housing retrofit and bike-share schemes
- Establishing partnerships with gas and electricity suppliers which will enhance forward planning capability and enable collaboration on future energy projects

# Greater Brighton can lead delivery on the Energy Plan

## 1. Strategic

- Ensure the Energy and Water Plans are aligned and embedded with Local Infrastructure Strategy and other regional strategies
- Coordination with Coast 2 Capital LEP
- Identify issues which require strategic review or lobbying

## 2. Investment

- Insights into and facilitating access to investment and government funding
- Investigate feasibility of a **Local Energy Fund**
- Investigate feasibility of a **special purpose / joint venture vehicle** to operate across Greater Brighton, to attract grant funding and external investment, to deliver pipeline energy projects and reinvest profits

## 3. Facilitation

- Work in partnership with wider stakeholders to make the most of GB economic and housing growth ambitions to create opportunities for low carbon energy and energy efficiency.
- Identify & prioritise clusters of energy projects, eg business parks, new housing
- Work with utilities on forward planning capability - impact of energy projects on gas, electricity and water infrastructure
- Enhance local supply chain options – supplier frameworks; identifying skills gaps and employment opportunities