



# Interreg



## 2 Seas Mers Zeeën SOLARISE

European Regional Development Fund



Low-carbon technologies

TOTAL PROJECT BUDGET:

**4.35** M €

INCLUDING AN ERDF BUDGET OF:

**2.61** M €

# Solar power on social housing blocks of flats

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[www.interregsolarise.eu](http://www.interregsolarise.eu)

# Outline

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- Brighton & Hove
- SOLARISE in Brighton & Hove
- The Challenge for Social Housing
- Pilots
- Next steps

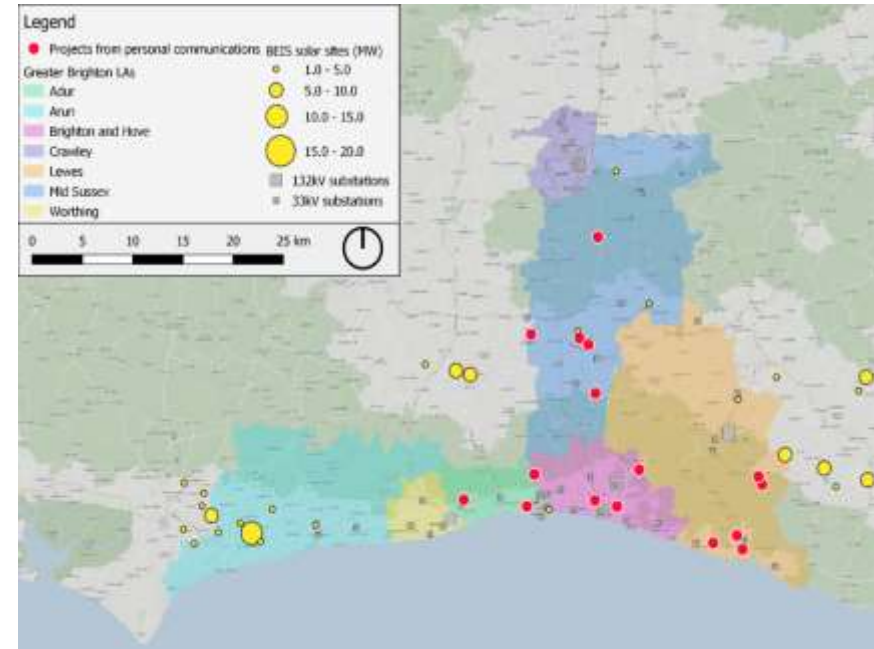
# Brighton & Hove

- 250 000 residents
- Surrounded by sea and National Park
- Net Zero Carbon by 2030



# Brighton & Hove: SOLARISE

- €530 000
- Greater Brighton Energy Plan
- Solar Roadmap
- Solar Farm Feasibility study
- Housing Pilots



# SOLAR PV in the UK

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- Costs for roof-mounted PV between £650 and £1200/kWp
- Feed-in-Tariff withdrawn in April 2019
- ‘Smart Export Guarantee’ export tariff introduced January 2020 –
  - Tariffs vary between 0.001p/kWh to 5.5p/kWh depending on supplier
- Retail electricity tariffs between 15p and 18.5p/kWh
- Self-consumption important for financial viability



# SOLAR PV and social housing

- BHCC responsible for:
  - 11,500 tenanted properties:
    - 3,500 houses
    - 8,000 flats
  - 2,500 leasehold properties
- 350 (900kWp) arrays installed on houses
- 20 (130kWp) arrays on blocks
  - only feed communal/landlord supplies
- **How to benefit tenants in flats?**



## SOLARISE BUDGET FOR SOCIAL HOUSING

Work Package 2:	Feasibility (€10 000)
Work Package 4:	Pilot Installs (€200 000)

# SOLARISE Pilots

## BRIGHTON & HOVE CITY COUNCIL



**SOLARISE:**  
INCREASING SOLAR CAPACITY  
ON HRA ASSETS

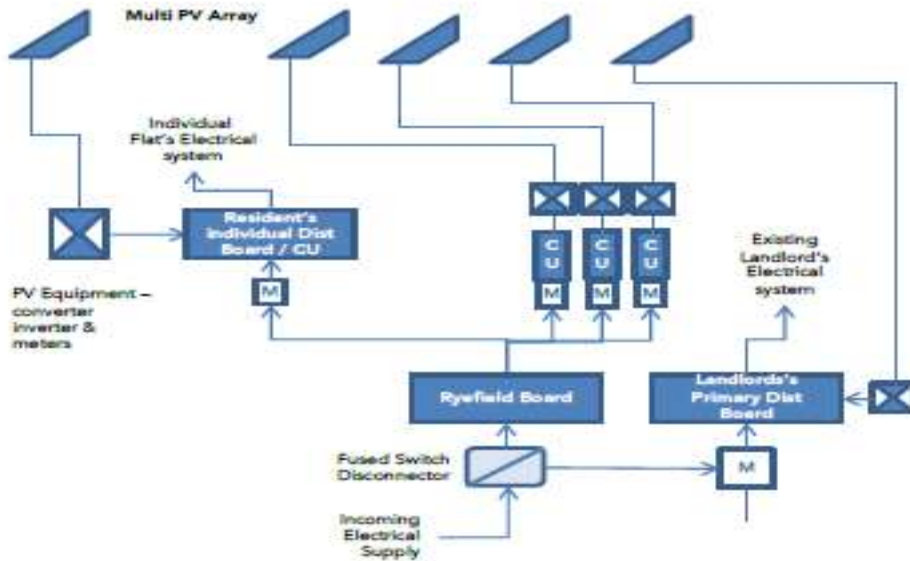
Model	Generation	Connection to units?	Complexity	Costs
Local tariff or Export tariff	⚡	✗	🧠	£
Multi-array	⚡	✓	🧠 🧠	£ £
PVT	⚡ + 🌡	✗	🧠 🧠 🧠	£ £ £
Batteries	⚡	✗	🧠 🧠	£ £
Heating	⚡ + 🌡	✓	🧠 🧠 🧠	£ £ £
Sub-metering	⚡	✓	🧠	£ £



June 2019



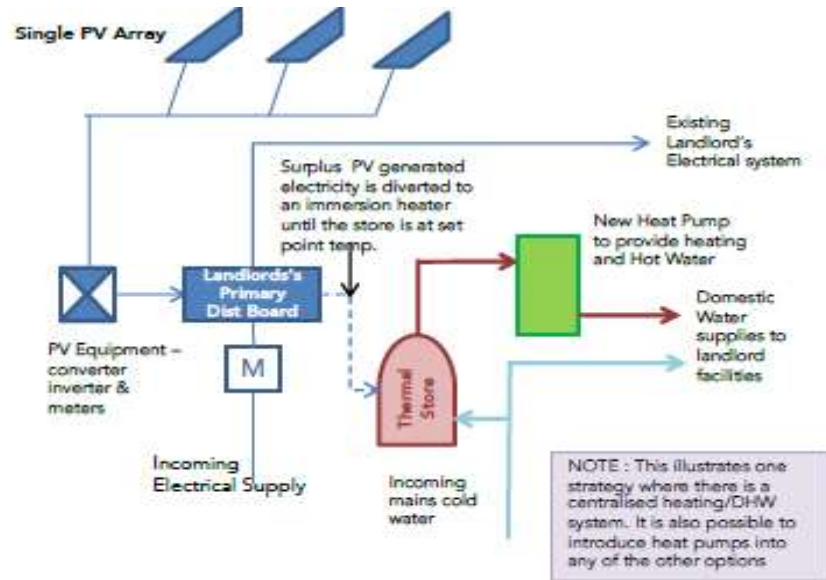
# SOLARISE Pilots: Multi-array



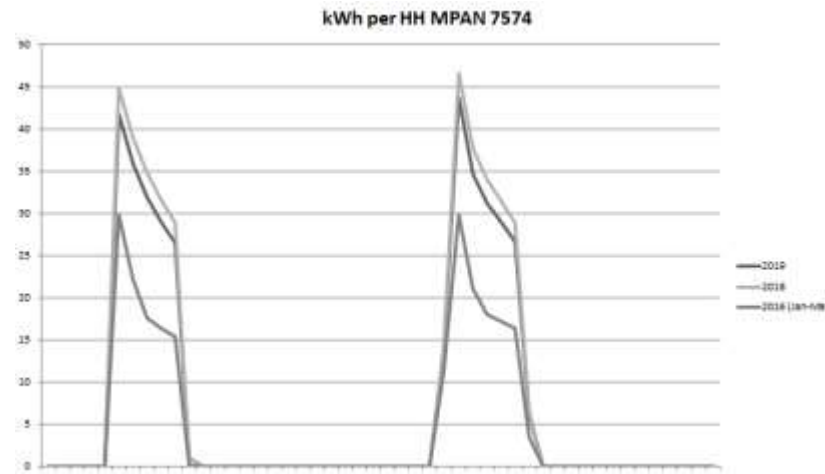
Expected saving: £80/year



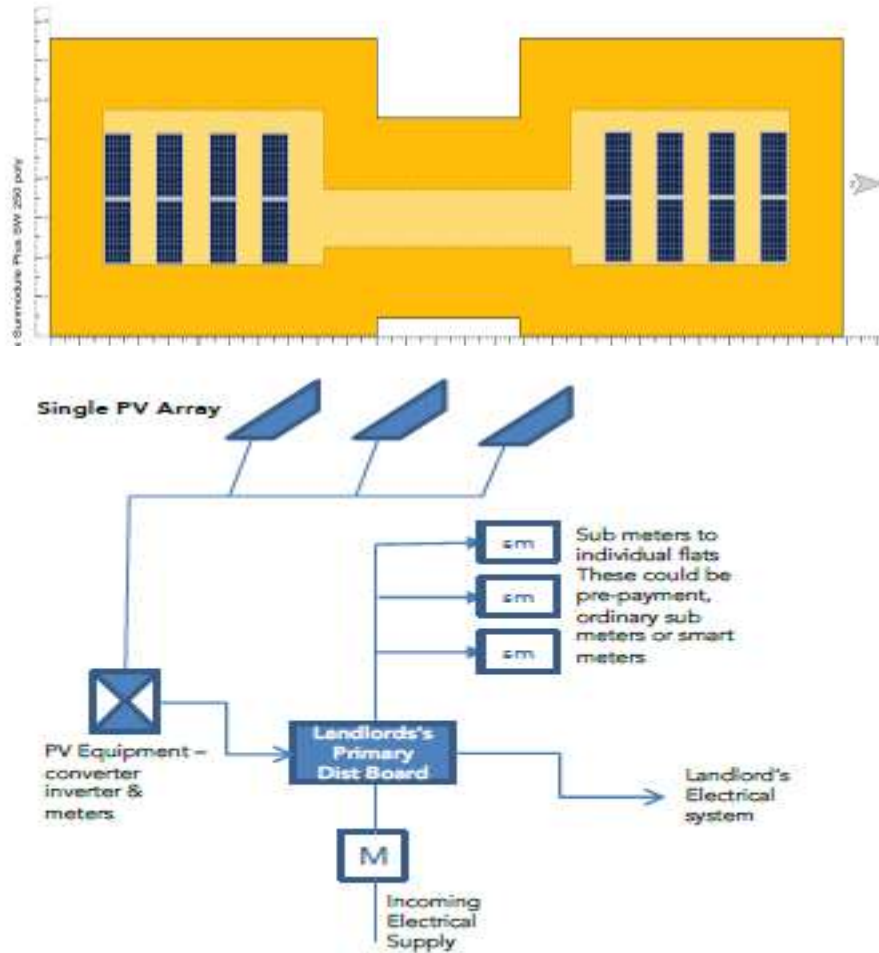
# SOLARISE Pilots: PV+GSHP



**Expected saving: ~£45 (on solar PV only – heat pump savings much larger)**



# SOLARISE Pilots: Block Tariff



Expected saving: £75/year

# Next steps

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- All Pilots will be complete and tenanted by summer 2020
- Further 500 installs of PV on houses 2020-2022, with more to follow
- All new build council homes will include solar PV **in addition** to meeting planning requirements
- Currently exploring combining 'Block Tariff' and 'GSHP' options for new build flats
- Depending on government funding, target PV+HPs at gas-fired properties

# Thank you

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