Solar for New Build

Nearer to Zero: South West
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Today?

History
Targets and Objectives
Regional Strategy
Issues
Technologies
Storage
The Opportunity
History

Formed 7 years ago as “Bristol Solar Group”
Inspired by Freiberg, Germany’s solar capital
  “Just do something” - Freiburg Mayor

Broad membership
  (...a confession required)
New brand and targets launched June 2013
WESCR established as delivery vehicle December 2013
Target and Objectives

1GWp installed in West of England by 2020
Economic value retained in region
New green jobs
UK Solar Capital
What WESCR is...(or rather what it is not!)

Energy is a big issue for everyone
Environment is changing and is uncertain
Not about selling solar panels
Work with the supply chain
Highlight new innovations
Unlock market failure (New Build and Industrial)
If Solar becomes the choice: Will you know? Will you know what to do?
Not just generation, demand management a vital component
What have “we” achieved?

Built a community
Bristol Solar Map
Bristol Area Solar Installers Coop
Release of BCC building stock for solar
BCC ESCo
Unitary authorities have set ambitious targets
Planning authorities aligning new homes
Issues

Energy too cheap!
Politics
Poor understanding of opportunity
Scale of task
Funding
Applicability to New Build opportunities?
Solar PV Panels

Established technology – retrofit
Cost - £1,200-£1,400 per kWp
Typical 2.5 kW system = £3,500
Building Integrated (BIPV)

- Proven technology
- Improved aesthetics
- Ideal for new build
- Higher cost than panels
- Incremental cost is low
  - replaces roof material (c£5k for 2.5 kw)
Solar Thermal

Low tech solution

Integrated PV/thermal
Other Solar Technologies

Functionalised Materials
  Solar Glass
  Solar Cladding
Concentrated Solar Power?
More Issues

Government Policy - FIT
Individual ‘vs’ community schemes
Planning
Regulation
Community Structures
Complimentary Technologies

Heat Pumps
Biomass Boilers
Anaerobic Digestion
Fuel Cells
Micro CHP
District Energy/Heating
Energy Storage

Batteries

...and electric vehicles
Opportunity

LEP SEP – Solar programme
6,000 new homes pa built in WoE region
100 MW – 10% of target
£180m to add solar
£30m profit?
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