Open Eco Homes – Alternative Energy

Innovations in Solar PV and battery technology for homes

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www.cambridge-solar.co.uk
Summary

- Intro to Cambridge Solar
- Solar Panel Systems - The Basics
- New developments
  - Panels – Increased efficiency + Bifacial
  - Systems – Fits no longer so important
  - System – 4 kWp no longer so important
  - Batteries
  - Self consumption
  - Monitoring
  - Electric Vehicles
- Q&A
Cambridge Solar Ltd

- Set up in 2009
- Carried out 100’s of installs around Cambridgeshire
- Our own local installation teams
- Strong emphasis on quality of our products and the quality of our workmanship
- Great customer relationships, lots of happy customers
Owen Morgan, MSc

- In the industry since 1999
- Worked for:
  - The Centre For Alternative Technology
  - Dulas Ltd
  - Bright Light Solar / TRUE Energy
- Education
  - BEng: Engineering & Business Management from Warwick
  - MSc: Architecture: Advanced Energy & Environmental Studies - CAT
- Designed solar panel systems that have been installed all over the world!
Solar PV – The basics

- Install solar panels
- Generate your own electricity
- Get paid for the electricity you generate
- Save on your annual electricity bills

Solar Batteries – The basics

- Charge batteries with spare energy during the day
- Use up the spare energy at night so no need to consume from the grid
New developments

- Panels – Increased efficiency + Bifacial
- Systems – Fits no longer so important
- System – 4 kWp no longer so important
- Batteries
- Self consumption
- Monitoring
- Electric Vehicles
Panels – Increased efficiency + Bifacial

- 9 x 230 = 2.07 kWp
- 9 x 250 = 2.25 kWp
- 9 x 300 = 2.70 kWp
- 9 x 360 = 3.24 kWp
Systems – Fits no longer so important

Systems – 4 kWp limit no longer important
**Batteries**
Electric Vehicle Chargers

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