

cambridge-solar

Renewable Plus

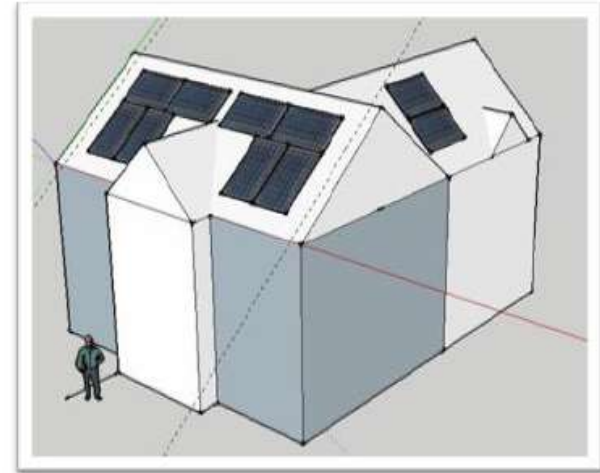
Latest News in Solar PV

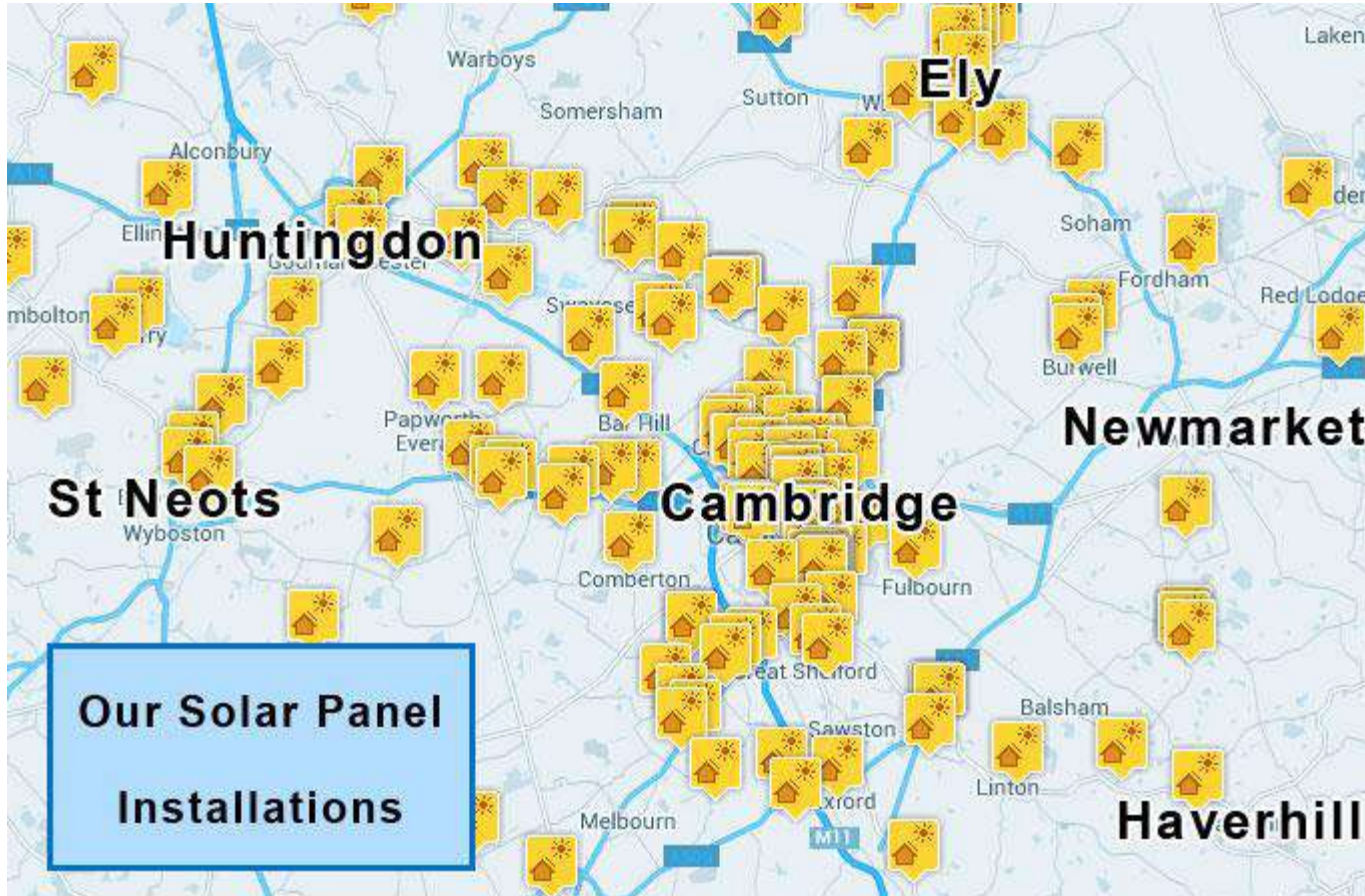
4th November 2015



Summary

- Intro to Cambridge Solar
- Solar PV the basics
- The feed-in tariffs
- Trends / Innovations
- Questions





**Our Solar Panel
Installations**



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

- MD of Cambridge Solar
- 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



The Feed-in Tariffs

Ideas to make it work for homes

- PPA's?
- Batteries
- Smart Homes



And for the industry generally

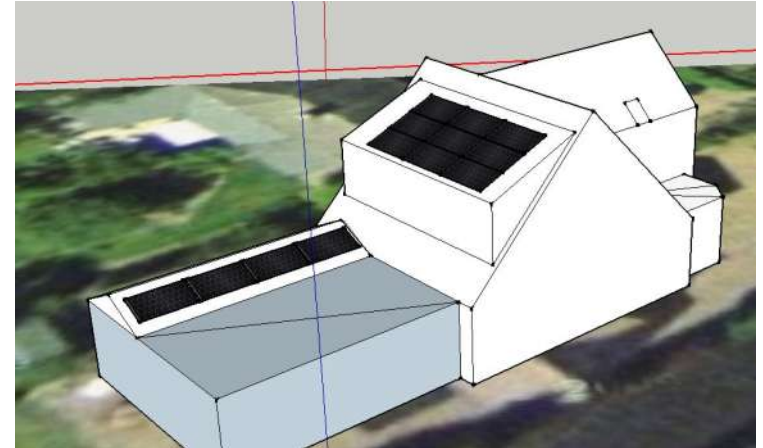
- Developers
- New builds
- Off grid systems



Trends / Innovations

- Panel-by-panel optimisation
- Micro inverters
- Power Optimisers
- Flexibility in design
- Higher yields
- Better warranties and monitoring
- Aftercare and ongoing support

- Not ideal if on a three story building or inaccessible



Panel Efficiency

- Standard panels tend to be 250 Wp
- 16 x 250 Wp = 4kWp
- Higher efficiency panels, same dimensions mean:
 - 14 x 285 Wp = 3.99 kWp
 - 12 x 315 Wp = 3.78 kWp
- 25% less work, 25% less room, 5% less output



Energy Storage

- Hot water storage systems
 - Hot water cylinder
- Battery systems
 - Cost
 - Maturity of technology



Monitoring systems

- Instant feed-back
- Trends
 - Daily
 - Monthly
 - Annually
- Better energy use



Smart Homes

- Monitor generation & production
- Weather monitoring
- Smart plugs
- Smart devices
- Batteries / hot water storage



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