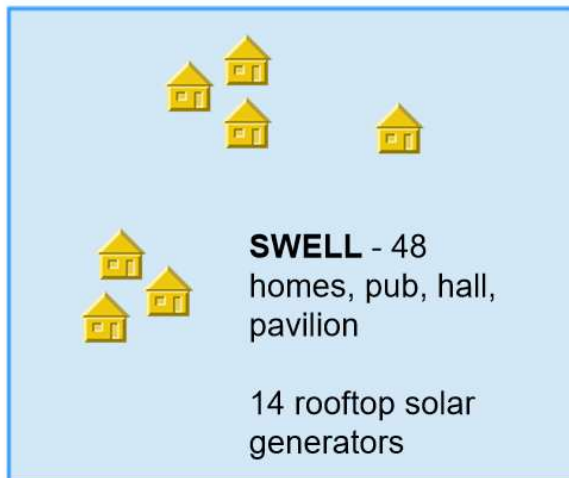


SWELL

Shrivenham and Watchfield Energy Local with Longcot



- Make the most of local renewable generation
- Save money by using cheaper electricity when demand is low or there is plenty of generation
- Keep the benefits in the community

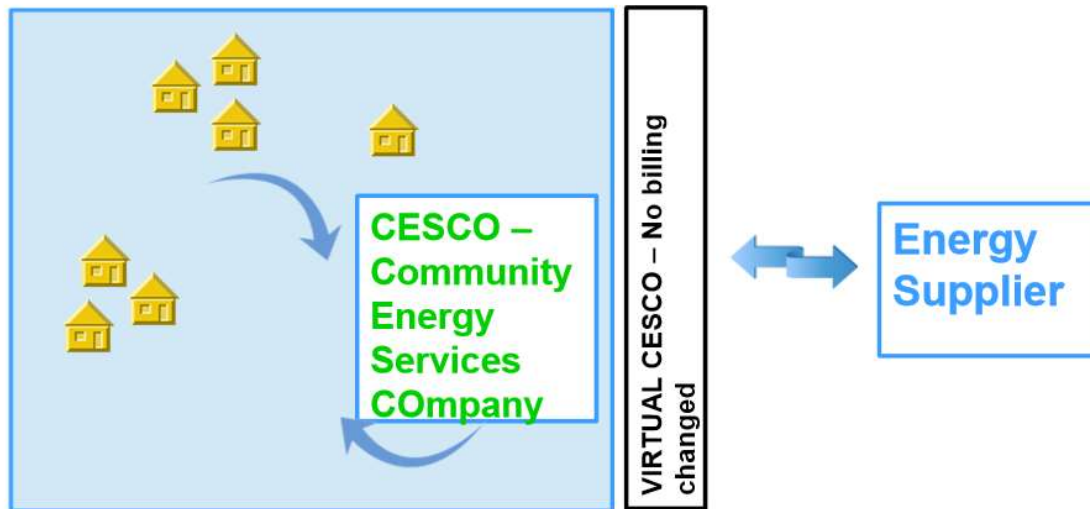
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- SWELL trial is testing the Energy Local idea
- Energy Local aims to make the most of local renewable generation within a community, and to offer a community cheaper electricity at times when it is easy to supply it (low demand and/or plenty of generation).
- Energy Local aims to keep that benefit within the community.
- SWELL trial is Shrivenham and Watchfield Energy Local with Longcot (with thanks to Nan Pratt for the name)
- 48 participants in first stage Energy Local trial – mainly homes but also this hall, The Eagle pub, the Watchfield Sports Pavilion
- Our generation is solar PV on homes and the pavilion.

SWELL

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- The Energy Local idea involves the formation of a CESCO – Community Energy Services Company
- The CESCO has an agreement with a licensed Energy Supplier. (We are working with Co-op Energy.)
- In SWELL participants have stayed with their usual supplier. We have a virtual arrangement with an energy supplier.
- We measure electricity use against time and electricity generation against time.
- We can calculate how much that usage would cost on a standard tariff and on an Energy Local tariff.
- Any savings or generation earnings come as Co-op vouchers.

SWELL

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**CESCO – Community
Energy Services Company**

Savings are in comparison
with 13.37p/kWh standard
tariff.



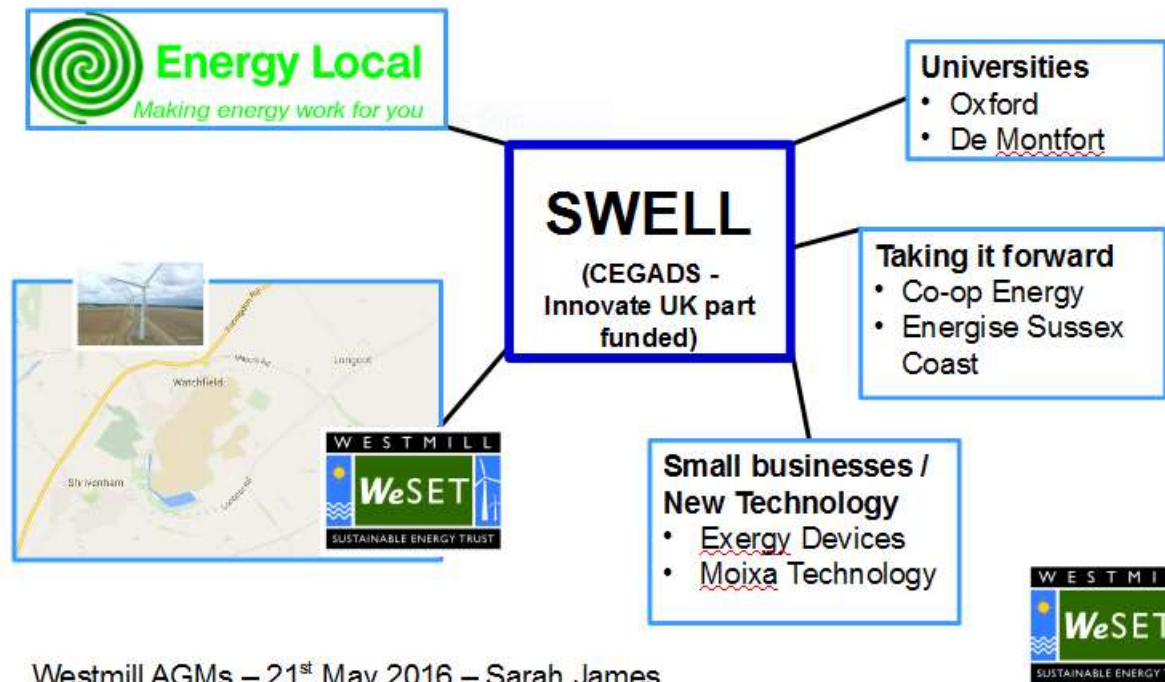
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- There are two ways participants can earn vouchers.
- We have a time of day tariff. Avoiding the early evening peak saves money compared to the standard tariff.
- Surplus generation from PV panels can be shared out with participants using electricity at the time it is available. The rate is 6.5p/kWh which is better than the price for exporting to the grid. It is still much cheaper to buy than the cheapest time of day price.
- The time of day tariff makes demand more predictable for the electricity supplier.

SWELL

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- SWELL is part funded by Innovate UK with project name CEGADS – Community Energy Generation, Aggregation Demand Shaping
- Weset's role in the trial is as Local Coordinator.
- Weset has the connection to this local community.
- Weset has a remit to support sustainable energy uptake and SWELL rewards and incentivises local, renewable generation.
- The SWELL trial is led by social enterprise Energy Local who are seeking to make this way of buying and selling electricity available to communities across the UK.
- The trial involves universities carrying out specialist research on aspects of the trial.
- The trial tests new technology from Exergy Devices and Moixa Technology to enable smart energy management in buildings.
- The trial involves Co-op Energy – a licenced supplier with an interest in taking this forward and Energy Sussex Coast, the kind of organisation that might support Energy Local set ups in the future.

SWELL

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SWELL Results

- Almost 6 months in
- First quarter savings delivered
- Lots of technical learning
- Everyone has saved some money
- Has already convinced Elexon to let us... →

Cyd Ynni Ynni Lleol

- Next stage trial in Snowdonia
- Real CESCO dealing with Co-op Energy as supplier
- Bills changed, not vouchers
- Using local Hydro
- Next step – CESCOs around the UK

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- Almost 6 months into 12 months trial
- Everyone has saved some money and received their co-op vouchers for the first quarter
- We've learnt a lot about technical issues at installation and with failures since, particularly of communications. We've had to go back and make repairs and updates, but we're gradually making the technology more robust and reliable.
- Importantly, Elexon who manage the electricity balancing and settlement market in the UK, have agreed to a next stage trial.
- This is in Bethesda, Snowdonia and is called Cyd Ynni Ynni Lleol.
- Cyd Ynni tests the same idea, but does it for real in the electricity market. Co-op Energy will provide the Energy Local tariff and participants will switch their bills to that.
- If Cyd Ynni is successful, the next step will be a wider rolling out of CESCOs in the UK.

SWELL

Shrivenham and Watchfield Energy Local with Longcot

- For further information about SWELL please contact Sarah James at **energy@waset.org**
- For more information about all Energy Local trials and future CESCOs please see **www.energylocal.co.uk** or contact **email@energylocal.co.uk**

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