

Marques for other community groups green gathering, Chepstow & Usk shows

- Bee Friendly Monmouthshire
- Transition Chepstow
- Monmouthshire meadows
- Walkers are welcome
- Sometimes we power them
- With solar + batteries



Community energy: The next generation

Community Energy

It used to be easy

Find a site Raise some money build a generator
use the FIT or RHI tariff to repay the loan
We installed 200 kW of solar 100kW of biomass

Community schemes based ONLY on tariffs do NOT work

Now we do things different and smarter

We have to act like a commercial

And charge users for their power

Electric car charging points

Battery storage with solar

LED lighting to reduce consumption

Some of our community systems



24 kW solar for a church and community centre in Cardiff
100 kW pellet boiler for a community centre in Somerset

Mission Statement



Gwent
Energy
C. I. C.

Our mission is help individuals and communities benefit from renewable's in an environmentally sympathetic way

26,000 people use halls that benefit from our systems collectively saving them about £46,000 a year

**We deliver bill savings
so the community organisation
can concentrate on delivering community services**

Ty Castle Community Solar Farm

138 solar panels on a chicken farm, Monmouth



Cost: £30,000 generates: 29,000 kWh & Saves: 12 tonnes of CO2 a year

20 year financial projection

FIT, RHI and export income is £790,000

Investor payments and operating expenses £410,000

Community benefit and reinvestment £380,000

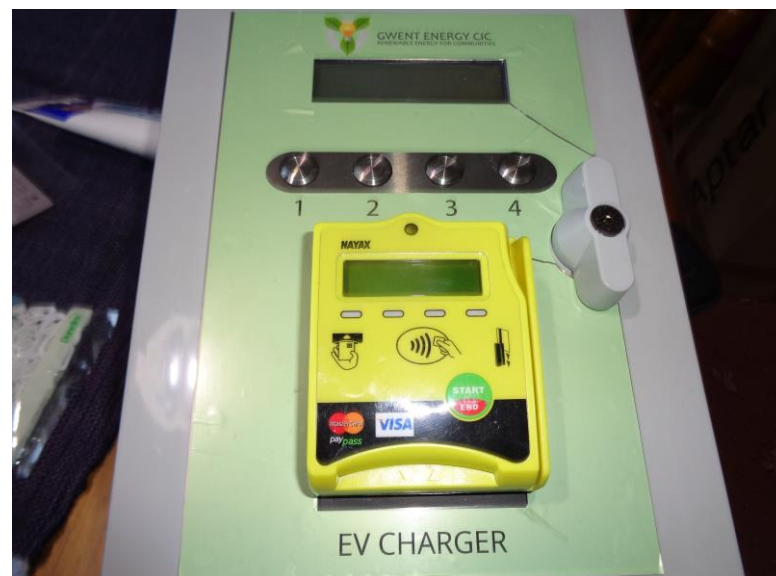
Funded by the investors club

- Community centre supporters loan the money
 - They get loans repaid with interest
 - 4 to 6 % interest depending on term
- + Christmas party & Care club membership



What we do now after TARIFF

- We have developed our own car charger point
- Its paid by using a laundry contactless card reader
- A few teething issues when it told people to put detergent in
- Anyone can use it at any time of day or night no pre-reg
- All you need is a contactless debit or credit card

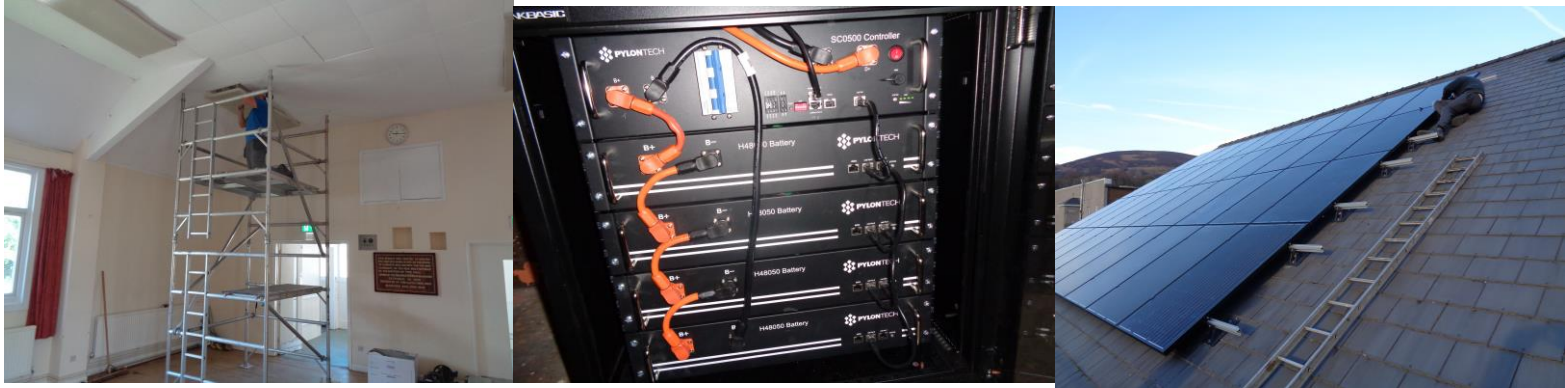


We developed an offer for community centres

- Its based on reducing consumption with LED lighting
 - Then we design a battery to power the hall
- Third we add solar to recharge the battery only
 - We take over the electricity account
 - We charge 75% of the previous bill
- We pay for the LED, battery and solar panels
- We provide power up to the previous consumption
 - The centre saves 25% of its electricity bill
 - We sell surplus power to ENERGY LOCAL

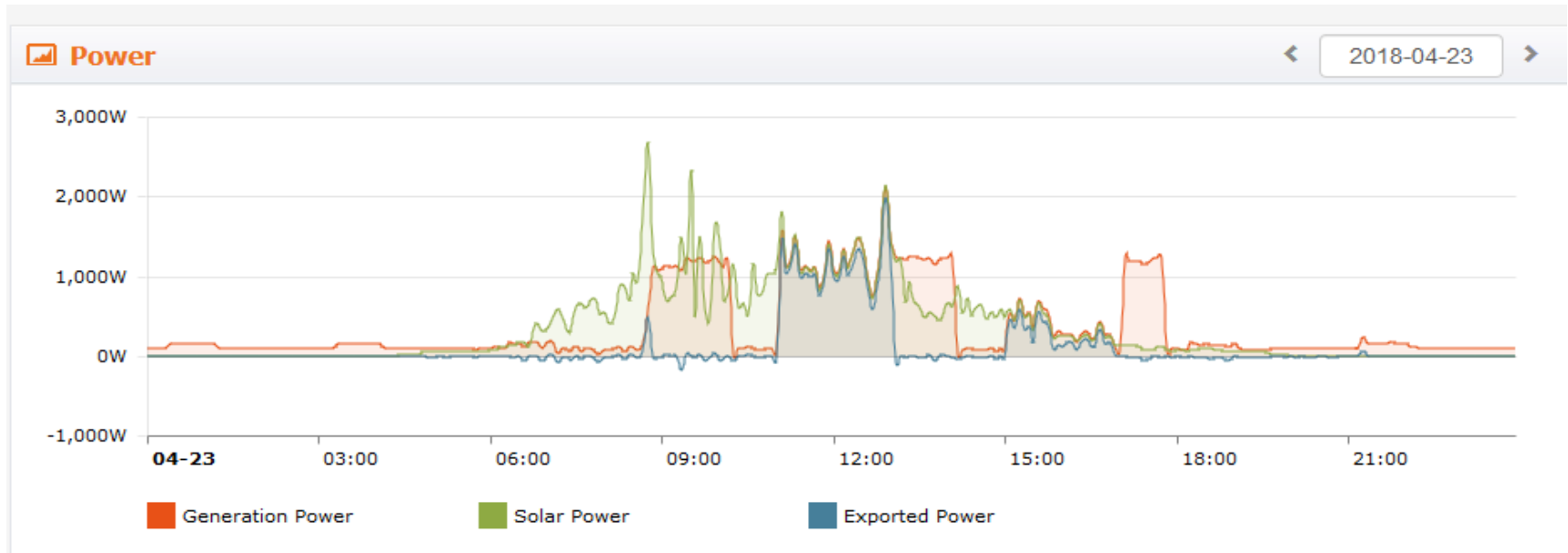
Case study

- Ebenezer church & community centre Abertillery
- **LED lighting + 10 kWh of battery +10 kW of solar**



- **Electricity bill went from £200 - £15 a month**
 - **improved community activities**
 - **Mums & toddlers increased days a week**
- **Extra kit like play mats and padding for columns**
- **New coffee machine for unemployed coffee bar**
 - **Fridge for the food bank**

Battery and solar work together



The hall has 3 events ALL powered from the solar and battery that day
First event powered mostly solar second event half and half
Third event was powered mostly from the battery

Renewable energy



Any questions ?

Are you pollinator friendly



Weeds to you !!



Monmouth bee festival



how to Create a *Bee Friendly Monmouthshire?*

- **Provide safe and sufficient habitat**
- **Engage, influence and support**
- **Raise public awareness of talks for community groups, old or young.**

M4 round about

