



Flex Community Information Session



May 2021

Our Community Energy Model



We build renewable energy generating projects e.g. rooftop solar, ground mounted solar arrays

Clean Local Energy



We raise funds through local people investing money in us and becoming members

Community Owned

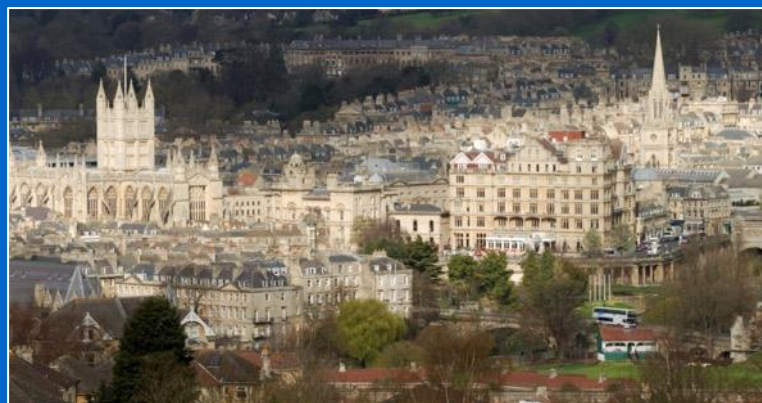


We re-invest surplus income in community projects through our BWCE Fund

For Community Benefit



Why Flex Community?



May 2021



Is it just about increasing the amount of renewable energy we can generate?

What about energy demand?

The Energy Transition is Happening Now ...

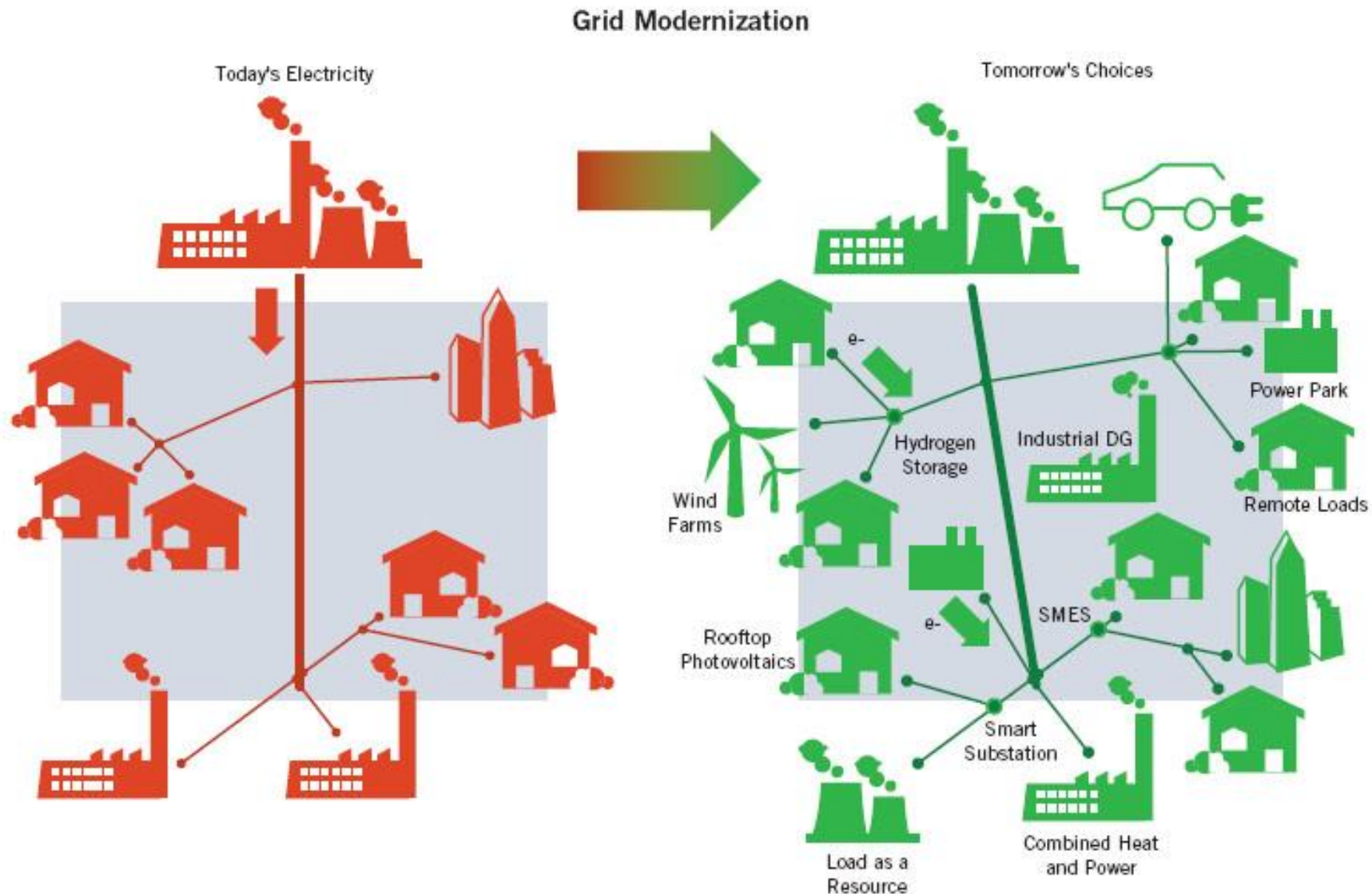


Fig. 1. The IEEE's version of the Smart Grid involves distributed generation, information networks, and system coordination, a drastic change from the existing utility configurations.

In a world with increasing electricity demand



- Electrification of heat and transport



- And so pressure on new renewable generation is even greater



But how to deal with....



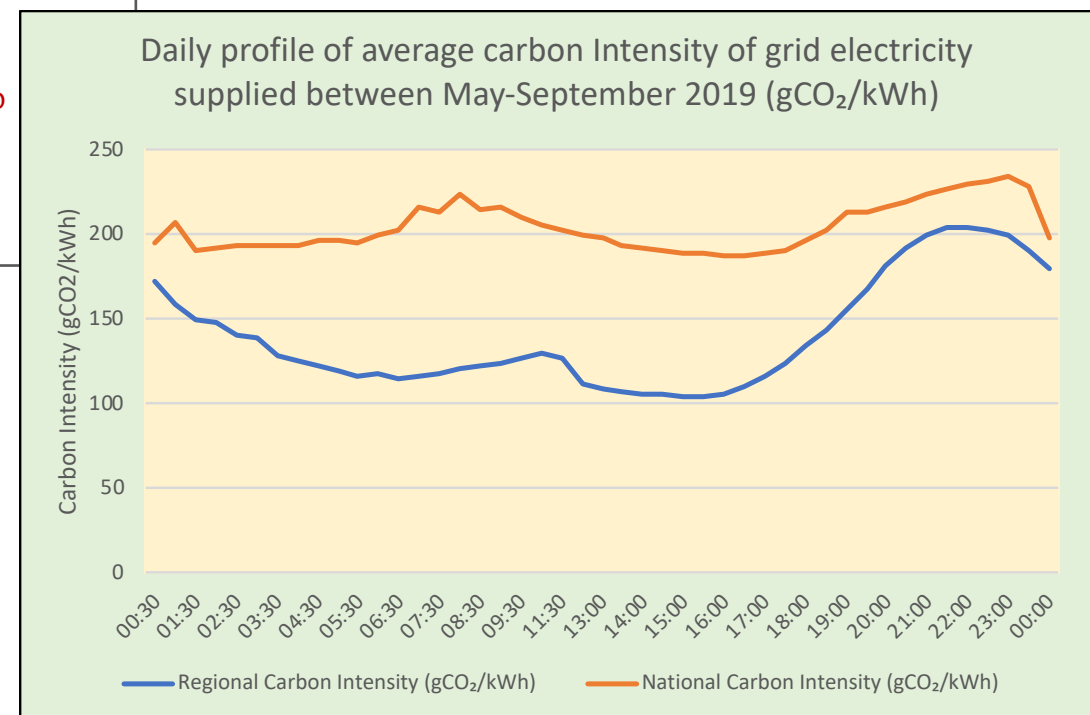
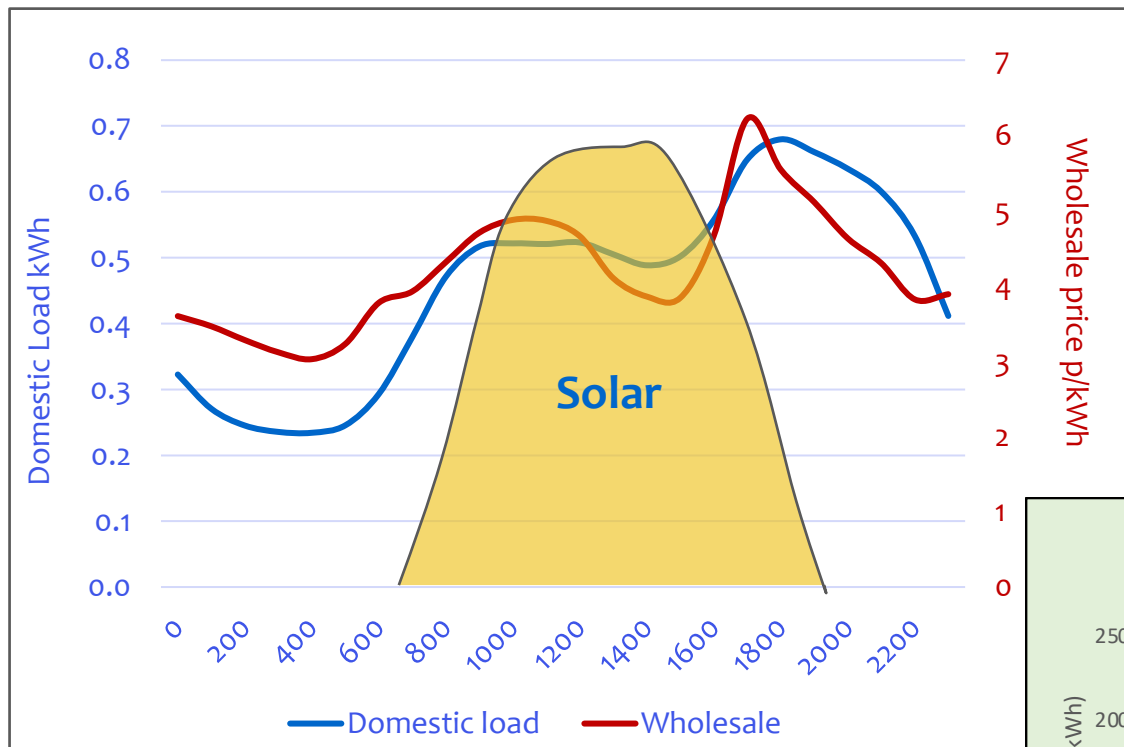
Intermittency



Grid capacity



Matching Supply and Demand





It's not just about **how much** energy we use

It's also about **when** we use it.

Meeting energy demand during the **evening peak** is more **carbon intensive** (relying more on fossil fuel power generation).

Shifting when you use electricity from 8pm in the evening to 2pm in the afternoon can cut carbon emissions by up to 50%.

We can better manage demand...



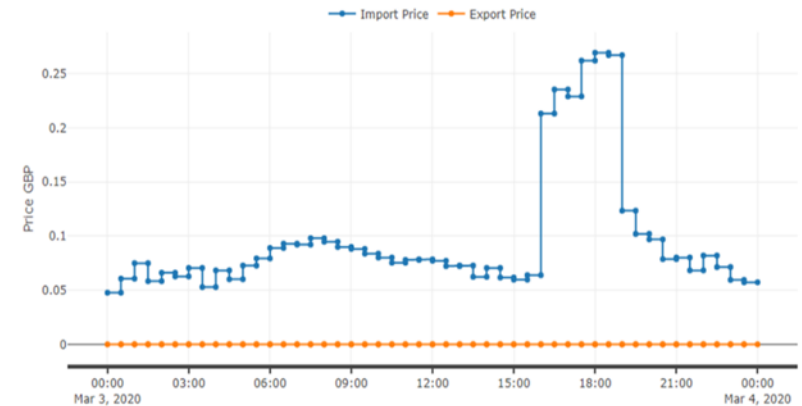
Behaviour change



Battery storage

FLEXIBILITY

The ability to modify consumption patterns in response to an external signal (such as a change in price, or a message)



Pricing mechanisms



Smart technology

Flex Community



Heat Pumps



Smart Technology



Electric Vehicle Charging



Electric Water Heating



Community Approach



In partnership with **Stemy Energy** (Spain)

Who are we looking for?



Flex Community is trialling flexibility

We are looking for 'pioneers'

Who already have a heat pump, ev charger or main source immersion heater

OR

Are planning to install either of these in the next two months

Willing to have electricity consumption remotely controlled via digital technology

To test if we can develop a workable, community owned solution to energy demand management

Will receive 'Flex Payments' for participating

Flex Community Portal



Flex Community

Welcome to the Portal

My profile

My Plans

Available Plans

STEMY ECOSYSTEM

Flex Community FAQ


26f9cb22d2@firemailbox.club

My Profile

In this section you will be able to see and modify your profile by filling in and editing information in the different categories. Once we know you better we will be able to give you personalized offers. However, the more info you give us, the better your offer will be so we encourage you to fill in more! You can see the overall progress bar as well as that of specific categories. If you have any questions please contact us at info@stemyenergy.com.


Overall Progress:

My Personal Data




Name, Address, Phone number...

My Property




Size, age, property type...

My Electricity Supply




Electricity supplier, type of tariff...

My Energy Efficiency




Insulation, double glazing...

My Internet Connection



Router, wifi, internet connectivity...

My Technology Installation



Technology interests

Stemy Energy has developed an online Portal: the 'Ecosystem'.

This brings together householders, installers and Stemy smart technology to offer flexibility to the grid from heat pumps, ev chargers and main source immersion heaters.

Potential participants complete a series of surveys to assess their suitability to join.



Next Steps

1. Complete an **Energy Awareness Survey**
2. Receive an **invitation** to join the Portal and **log-in**
3. Complete the **My Profile** (includes photos)
4. Complete a **Plan** (new ev charging post/heat pump, existing technology = flexibility)
5. Short wait whilst Stemy Energy determines your **suitability**
6. If approved, local MCS-accredited **installer(s) will be assigned to you** who will call to discuss your survey answers/photos and arrange an evaluation visit to your home (if necessary)
7. Installer(s) will prepare **installation quote(s)** for your chosen technology and required **no-cost Stemy equipment**
8. Only after accepting your chosen quote will you be committed to proceeding to installation
9. **Installation visit** will include **installing Stemy equipment** and **activating the App on your phone**
10. All **contractual** aspects between you and the installer **outside the Portal**

Where are you at?



- I'm unclear what Flex Community is all about and why BWCE are doing it.
- I'm unclear about whether I can be a Flex Community participant.
- I have some issues with regard to installing new energy technology (e.g. heat pump, ev charging post).
- I have some questions about using my existing energy technology in Flex Community.
- I'm still unclear what I need to do on the Flex Community Portal.
- I've used the Portal but there have been some issues.

Anything else?