



Urban Off Grid Energy Hubs

All Energy 2023

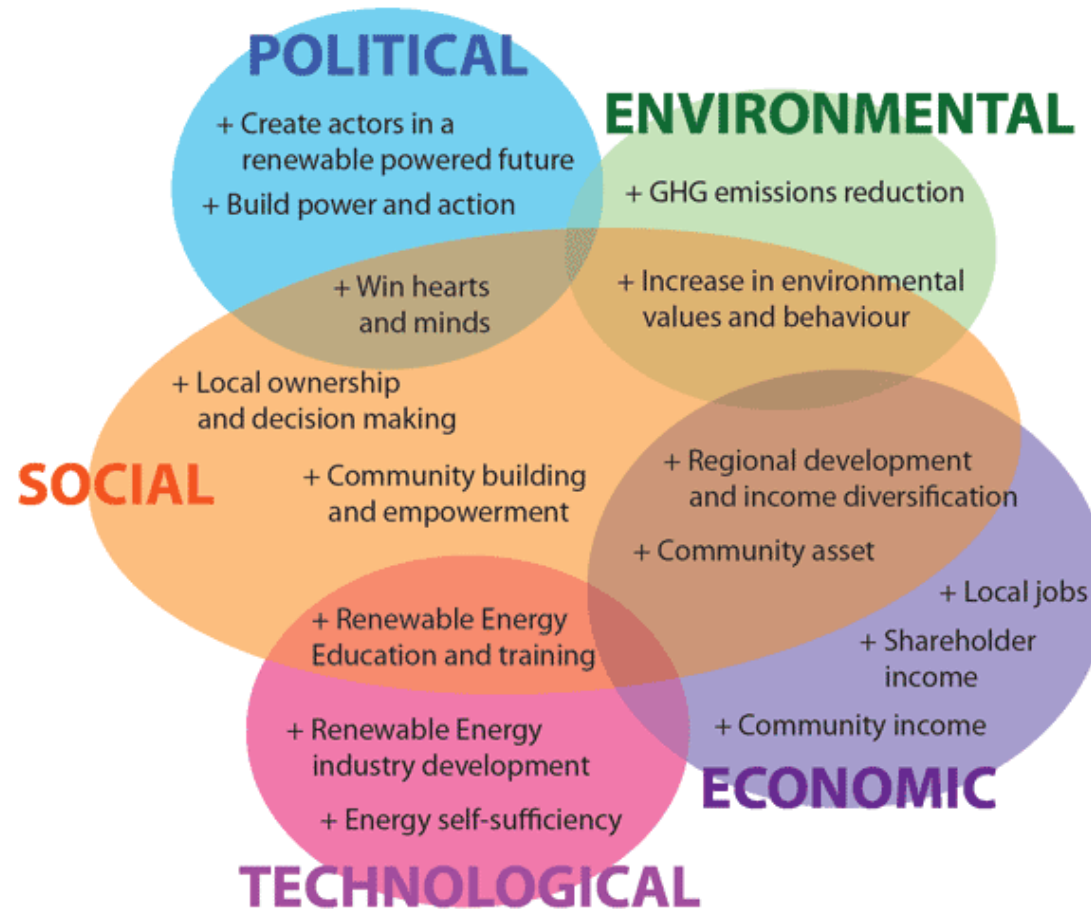
Calum Watkins

10th May 2023

A photograph of a bicycle with a basket on the handlebars, parked on a path. The scene is backlit by a bright sun, creating a strong lens flare and a warm, golden glow. The bicycle is silhouetted against the bright light. The path leads into the distance, and there are some dry plants in the foreground.

Today's Topics

- What is Community Energy?
- Who are Glasgow Community Energy?
- How we got into shared e-bikes?
- What's next?



The benefits of community renewable energy projects
From the "Home Energy Handbook", 2012

Our Values



Enable



Educate



Empower



- Schools Energy Workshops
- Spring 2019-present
- Really successful!

Solar Projects (finally) Installed!

Local Communities



Ashton Secondary School
Easterhouse

Solar energy workshops with schools
across Glasgow in 2018 - 2019

Workshop with Glendale Primary
School on 20 March 2019

Glendale Primary School
Pollokshields

Energy + Renewables Consultation
in Pollokshields on 28 February 2019



Community Energy Fayre
in Easterhouse on 13 July 2019

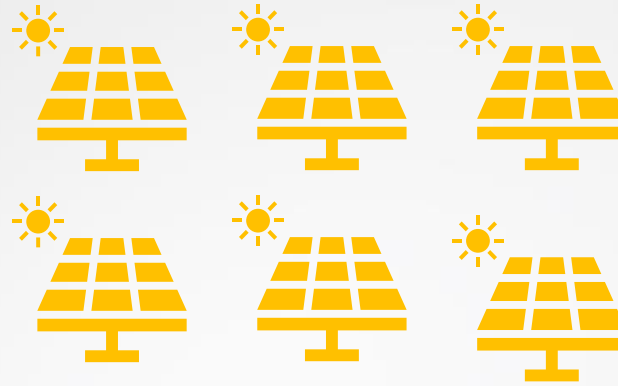
How did we get
into off grid
energy hubs?

7 AFFORDABLE AND
CLEAN ENERGY





Six Solar Panels



Two Batteries



Monitoring System

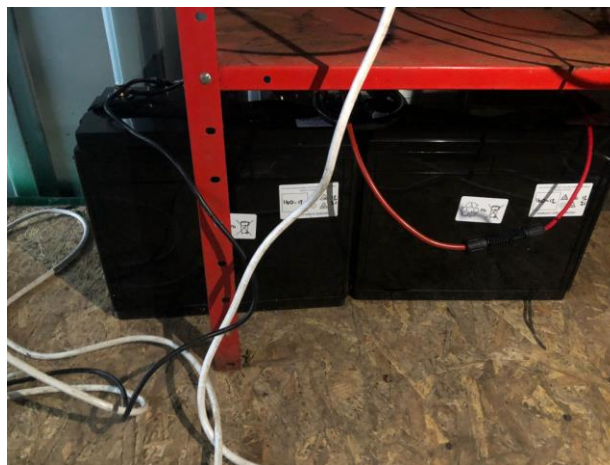
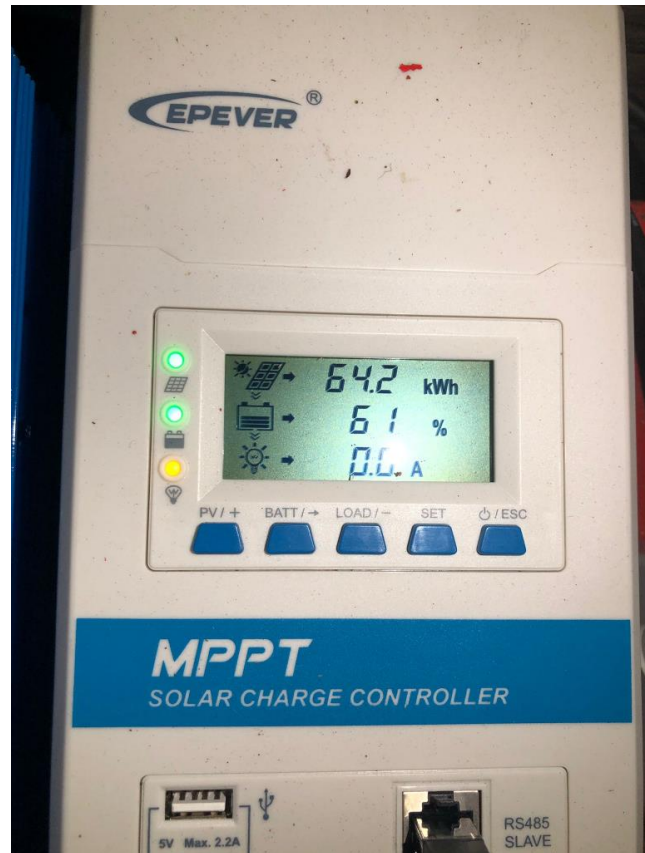


One e-Cargo Bike



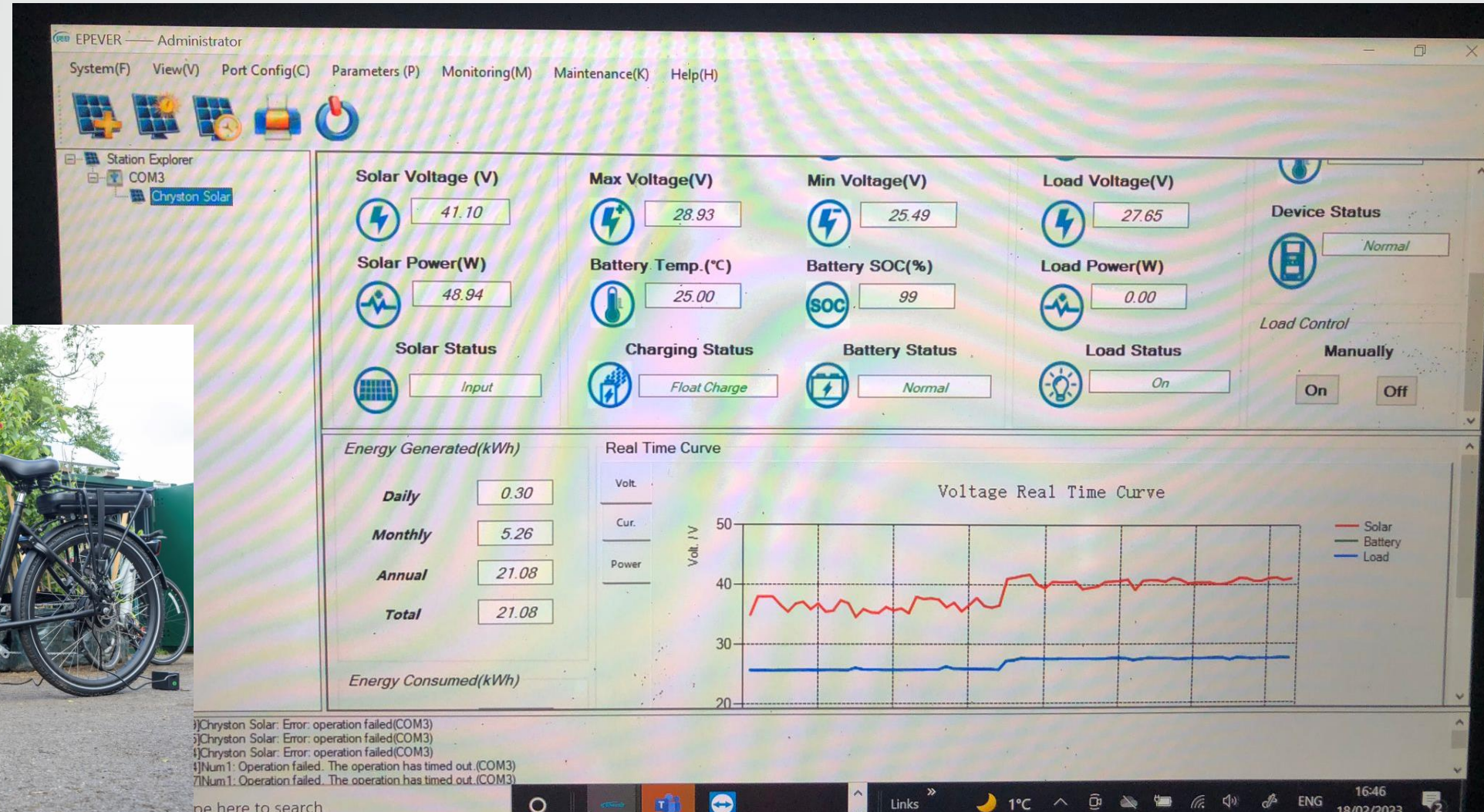
Installing the Solar Panels






Storing the Energy

Monitoring and Charging





A close-up photograph of a bicycle's rear suspension system, showing a metal spring and a brown leather seat post. The image is partially obscured by a blue and grey geometric graphic element that separates it from the text area.

What challenges have we experienced?

- How do we create a standardised design for others to replicate?
- Finding a suitable monitoring solution of how energy is being used
- Getting sufficient e-bike users to make use of the available energy
- Can we consider alternative uses for energy that we have available?

So What's Next?



INCREASING DEMAND FOR
SHARED E-BIKES



CREATING A CASE STUDY
FOR OTHER COMMUNITY
GROUPS TO LEARN FROM



STUDENT PLACEMENTS
AND PARTNERSHIPS

Areas of Future Work

- Enhanced monitoring and control platform
- Alternative local energy needs
- Centre for Blackout Resiliency training
- Self-service e-Bike usage





Thank you!

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www.glasgowenergy.coop