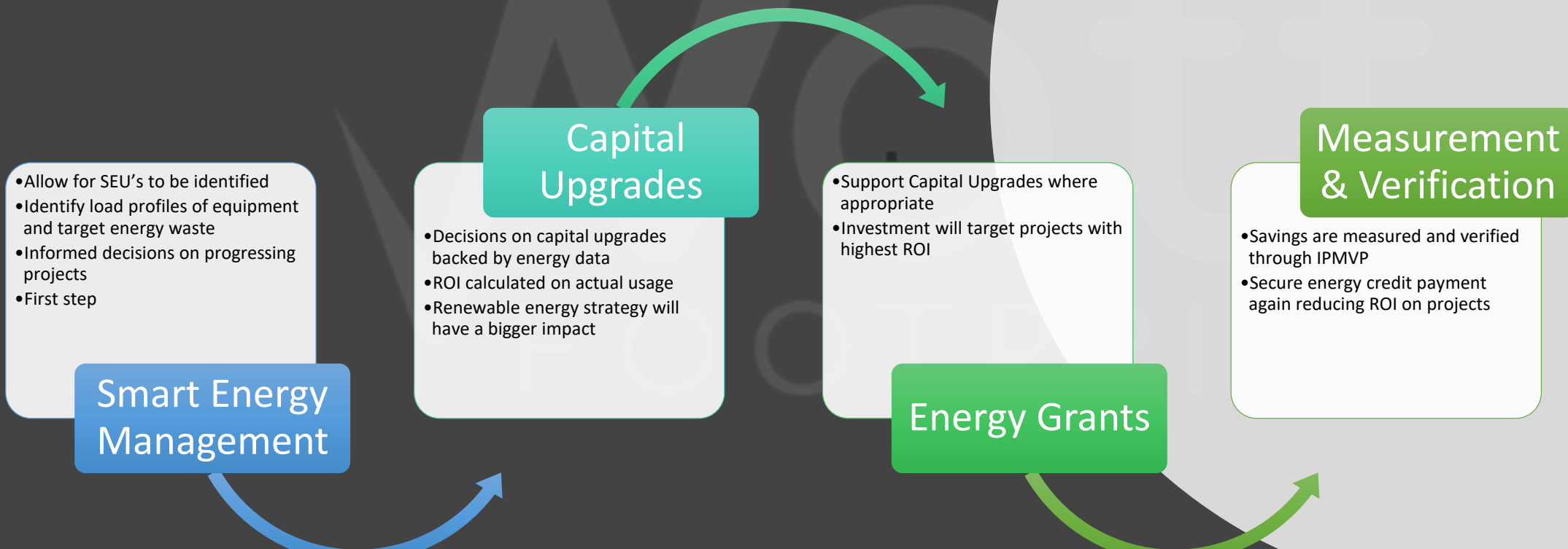




Monitoring On-Farm Energy & Sub metering

Energy Management Strategy

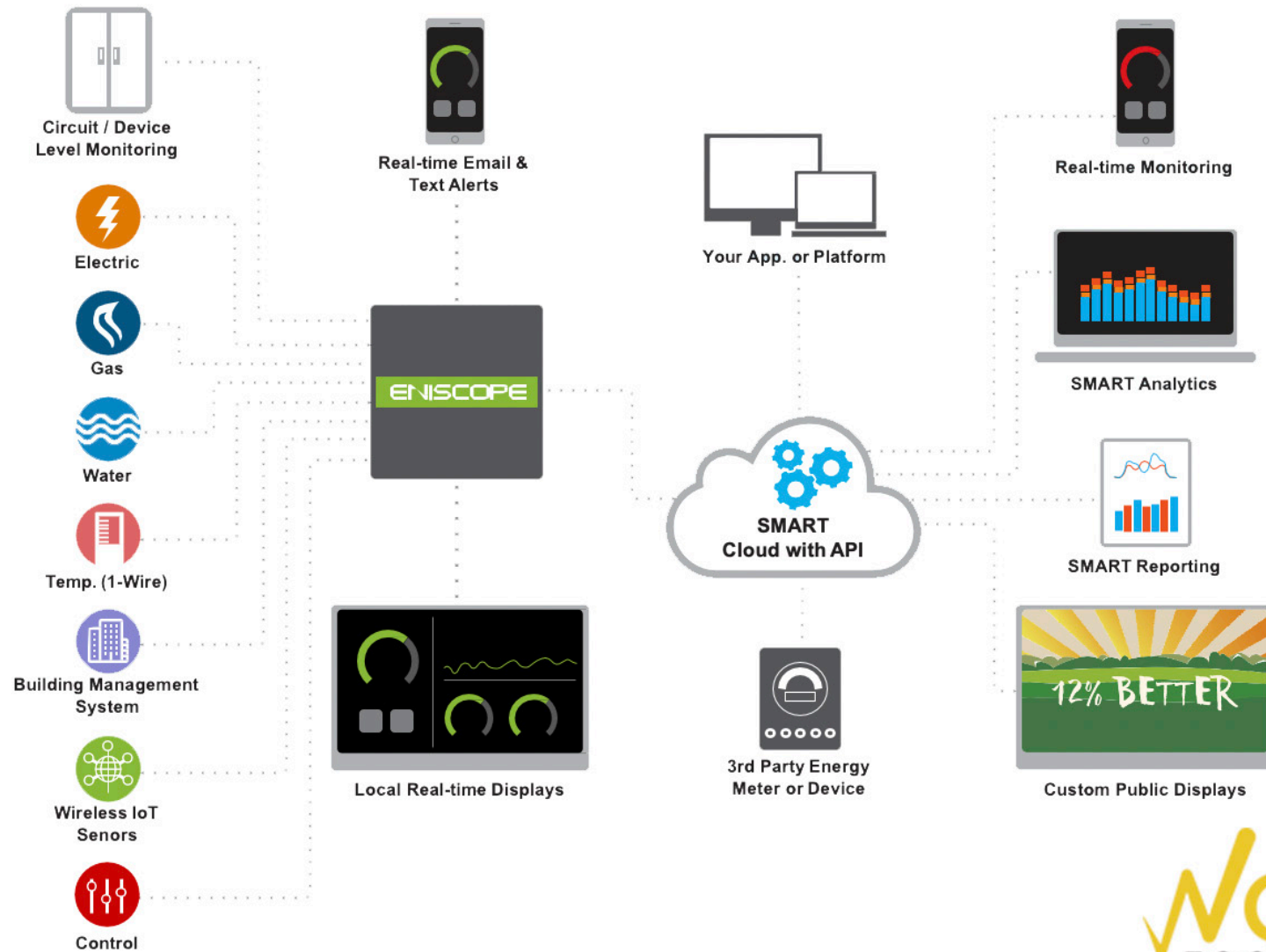




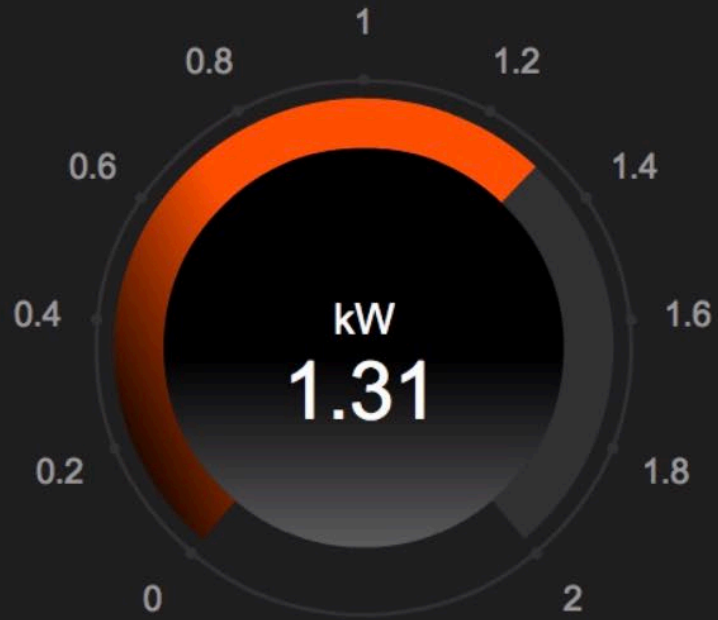
Why Monitoring matters

- “You can't target what you can't see”
- Ensure correct sizing of equipment and proposed upgrades
- Energy consumption is directly linked to charging structures of energy bills
- Measurement and elimination of energy waste will allow for renewables to have a larger impact on energy reduction
- Metering plan allows for measurement and verification of energy savings achieved from project upgrades

One platform for all your energy Data



POWER



COST
GBP0.13
per hour

CO₂
0.63kg
per hour

REAL-TIME TRENDING

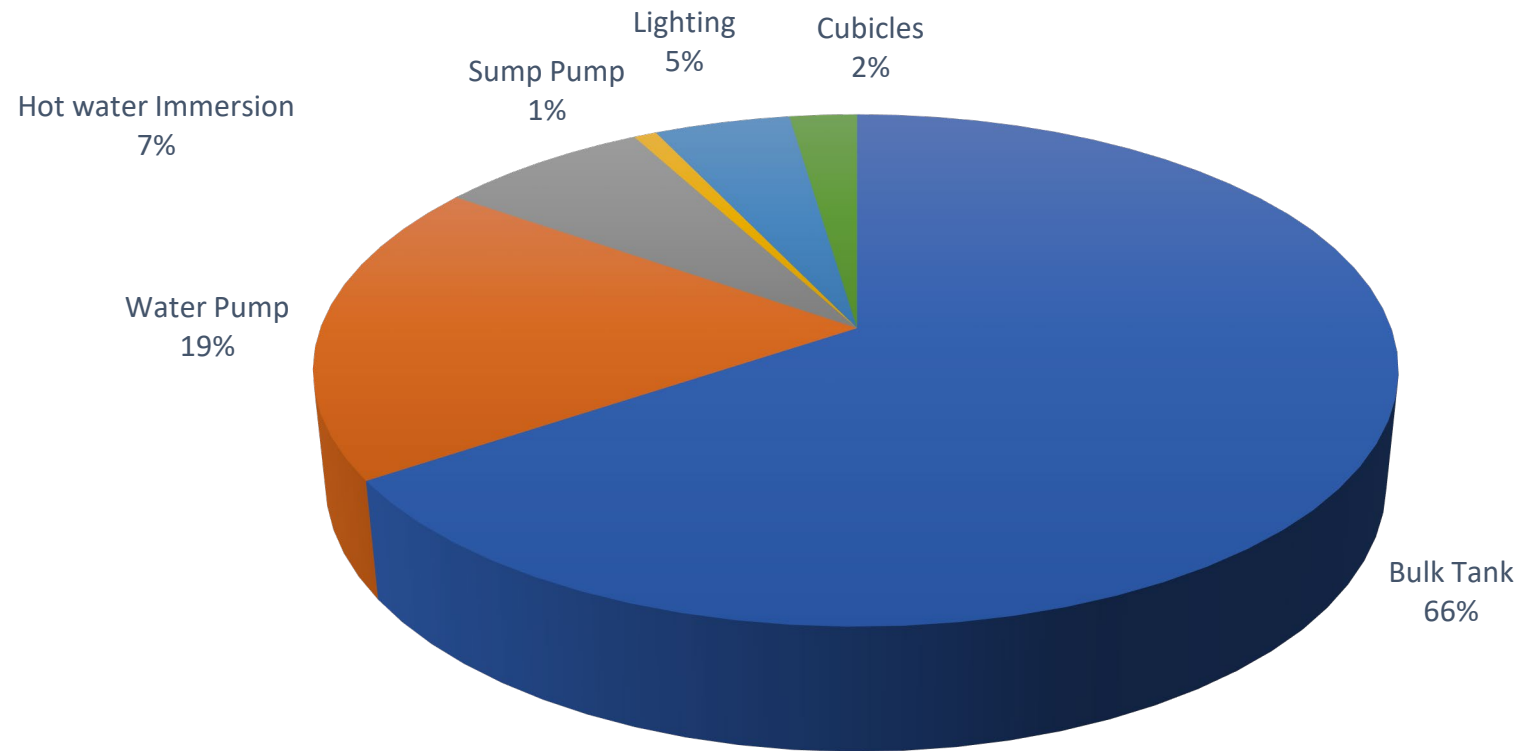


VOLTAGE



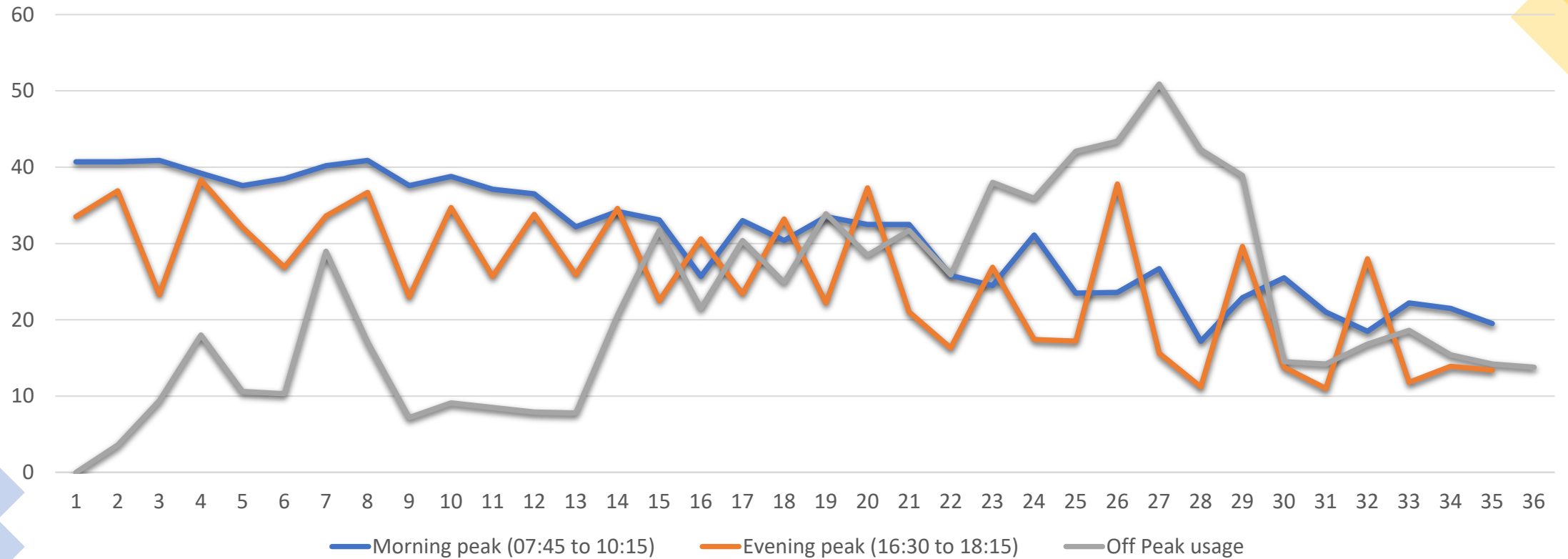
POWER FACTOR



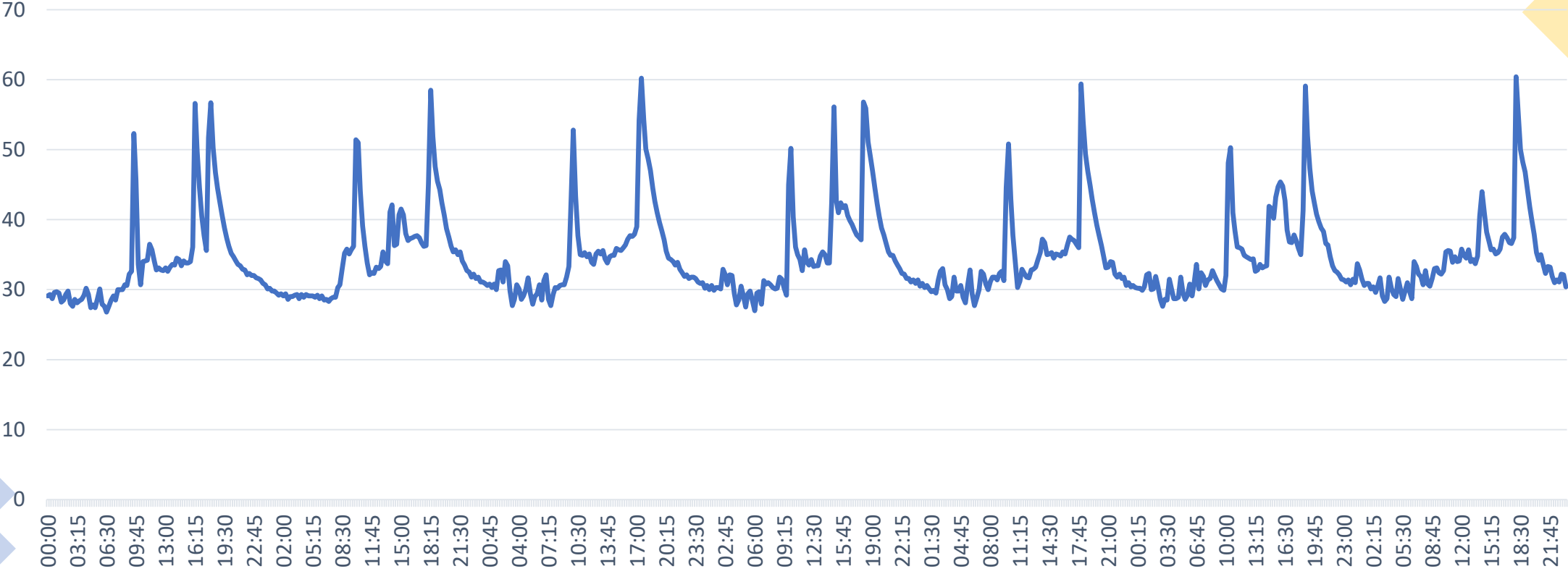


■ Bulk Tank ■ Water Pump ■ Hot water Immersion ■ Sump Pump ■ Lighting ■ Cubicles

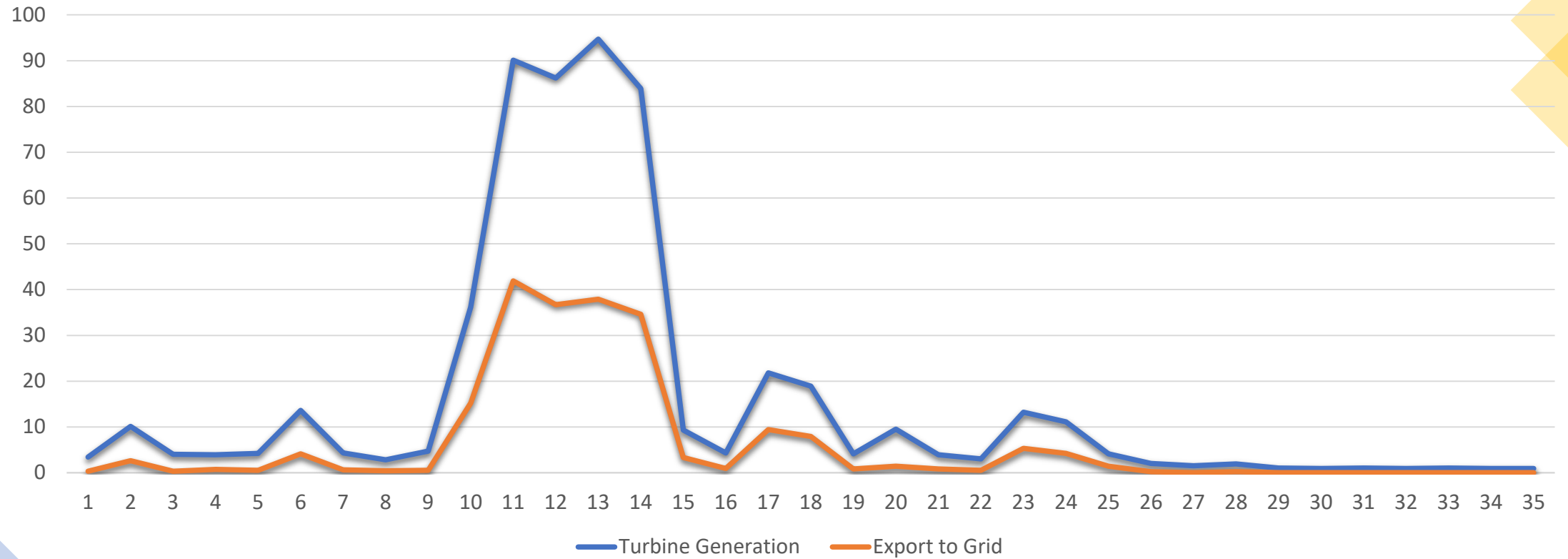
Sample daily usage



Hot water Temperature

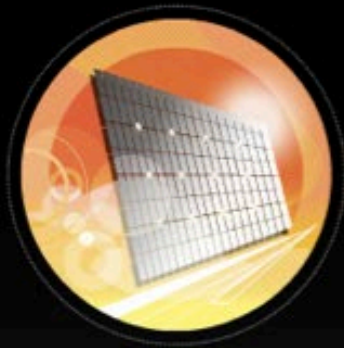


Turbine Generation v Export



Eniscopere newable Demo

Renewable Performance



Solar **4.10kW**
82%



Hydro **6.00kW**
60%

Total Energy Production



102% Green



Generating **10.1kW**

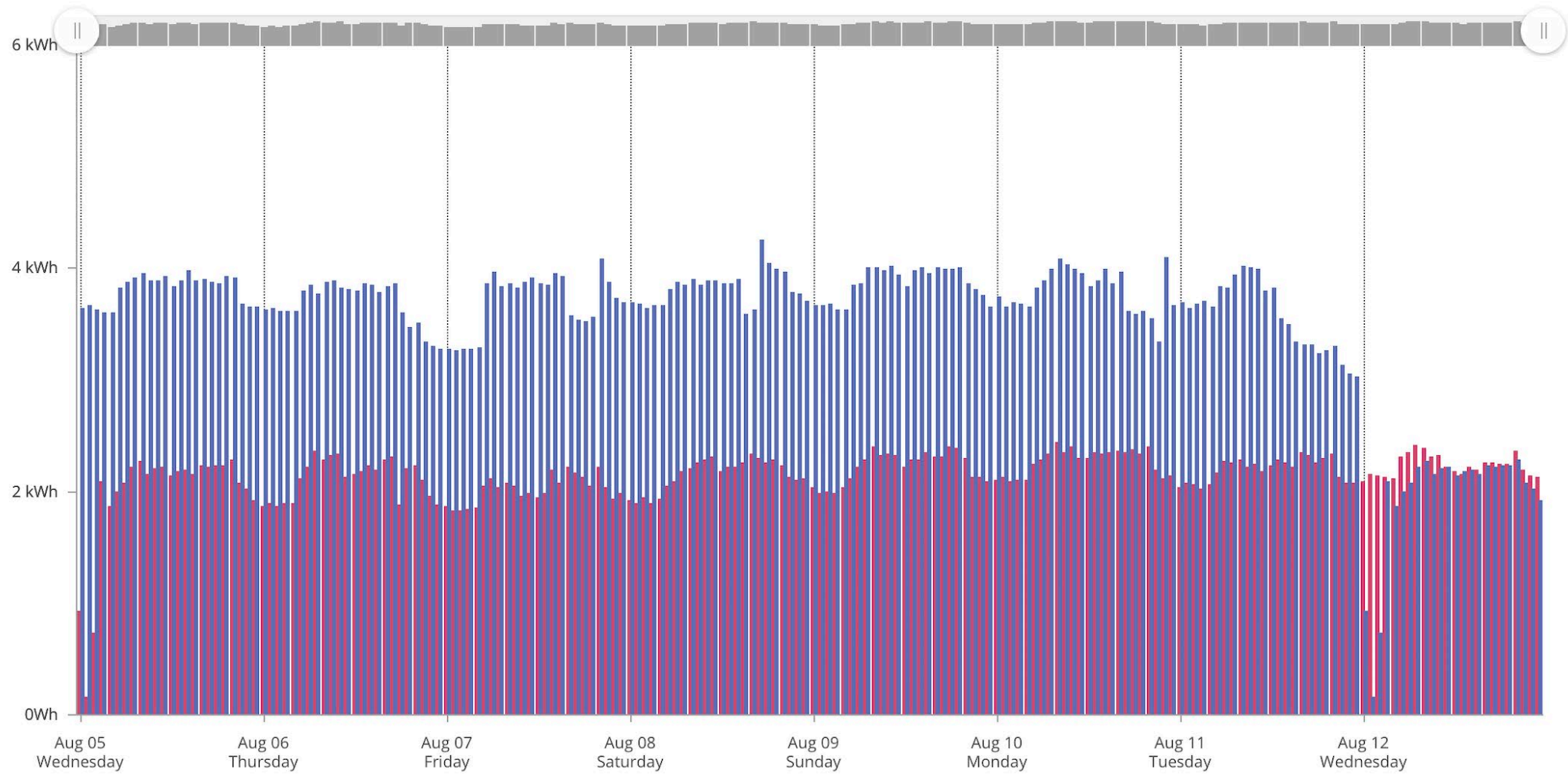


Exporting **0.17kW**



Boiler House, 05 Aug 2020 - 12 Aug 2020 - 1 hour, system, comparing data from 07/29/2020 to 08/05/2020

Graph options



- M
- Bc
- Kit
- Le
- Sv
- Sv
- Hy
- Hy

- Fi

- R
- A
- 1
- 1:
- 3:
- 1



DEVICE READINGS

Help

Device	Channel	Volts	Current	kW	kvar	kVA	PF	Freq	Pulse	°C
Bar	System	3	4.99	-0.01	-0.02	0.04	-0.42	50.00	8	
	Phase 1	3	3.27	0.00	0.01	0.01	0.16			
	Phase 2	3	0.59	0.00	-0.00	0.00	0.86			
	Phase 3	3	11.10	-0.02	-0.02	0.03	-0.55			
Kitchen	System	3	28.49	-0.08	0.03	0.24	-0.32	50.00		
	Phase 1	3	25.79	0.03	0.06	0.07	0.43			
	Phase 2	3	12.61	0.02	-0.03	0.04	0.55			
	Phase 3	3	47.08	-0.13	-0.01	0.13	-0.97			
1st floor	System	3	1.58	-0.00	-0.00	0.01	1.00	50.00		
	Phase 1	3	1.69	-0.00	-0.00	0.00	-0.69			
	Phase 2	3	1.19	-0.00	0.00	0.00	-0.78			
	Phase 3	3	1.83	0.00	-0.00	0.01	0.60			
Ground floor	System	3	9.04	0.01	0.02	0.08	0.25	50.00		
	Phase 1	3	4.47	-0.00	-0.01	0.01	-0.39			
	Phase 2	3	11.84	0.03	-0.00	0.03	0.95			
	Phase 3	3	10.82	-0.02	0.03	0.03	-0.51			
2nd Floor	System	3	1.42	0.01	-0.01	0.01	1.00	50.00		
	Phase 1	3	0.72	-0.00	-0.00	0.00	-0.55			
	Phase 2	3	0.70	0.00	0.00	0.00	0.94			
	Phase 3	3	2.85	0.01	-0.00	0.01	0.80			
Sub BD	System	3	9.61	-0.02	-0.02	0.08	-0.13	50.00		
	Phase 1	3	15.97	-0.03	-0.03	0.05	-0.64			
	Phase 2	3	5.62	-0.00	0.01	0.02	-0.30			

Setup Your Devices

Eniscope Hub

- Alarms
- Messaging
- Interface Options
- Demo Mode
- Device Readings

Hub Configuration

- Activate Your Hub
- Product Registration
- System Settings
- Network Setup
- MQTT Settings
- Security
- System Status
- Reset Hub
- Reboot Hub

View Web Display

- Flash
- HTML5 (realtime only)

Logout

Message



Do you like this display?



Show Energy In An Easy To Understand Form



1.4 MILES

Today we used 630.20 kWh

That's enough energy to fly 1.45 miles



Suggested support actions

- Financial supports aimed at “smart energy management” systems and training to understand data for farmers.
- Benchmarking of farms based on actual data utilising energy monitoring to provide reliable results of energy saving projects undertaken.
- Development of a strategy document for farmers on how to approach energy efficiency
- Comparisons of high energy efficiency farms against under performing farms with discussion groups

Thank you

