Bath & West Community Energy
Generating local energy

Bath & West Community Energy

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Our set up

Launched in 2010

Community Benefit Society owned and controlled members

You can become a member by investing.

Current share offer – minimum £100 with return of up to 4% paid annually

One member = one vote

Asset lock

Cover B&NES and bordering areas of Wiltshire & South Gloucestershire

Achievements

Raised £22.5m in community shares and £10m in commercial loans

Installed capacity of 13.35MW – enough to power 4,500 homes

Imminent launch of retrofit support service

Donated over £330,000 through our Community Fund

BWCE Aims

Renewable Generation

Energy Demand

Through collective action & community ownership

For community benefit

"Clean Local Energy, Community Owned for the Common Good"

Complex Site Local Supply

- BWCE very interested in potential for complex site local supply
- Closely involved in legislative efforts to agree simplified guidance via elexon P441 working group
- Meter configuration issues so far preventing implementation at all live sites……

Ground mount sites --- Voltage level mismatch

Roof mount sites --- Demand aggregation meter

Feasibility work 2023

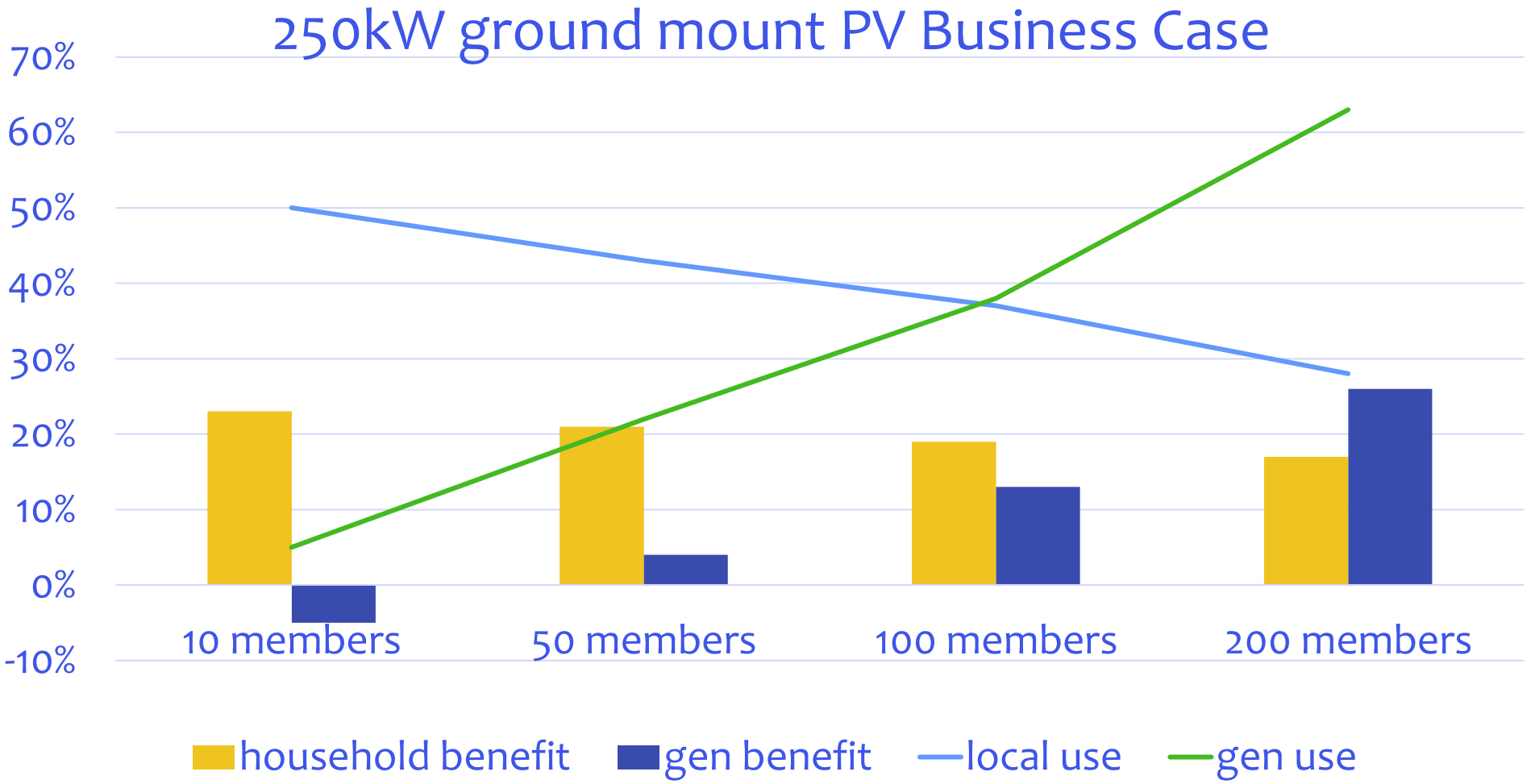
ReDREAM project support enabled BWCE staff time and Energy Local resource to conduct further modelling and feasibility work:

- Staff training on Energy Local structure and outreach requirements
- Mapped substation areas, identified potential site clusters
- Modelled cluster level half hourly demand and generation
- Estimated benefits for generators and households

ReDREAM
change your energy

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N°957837

Ground Mount business case



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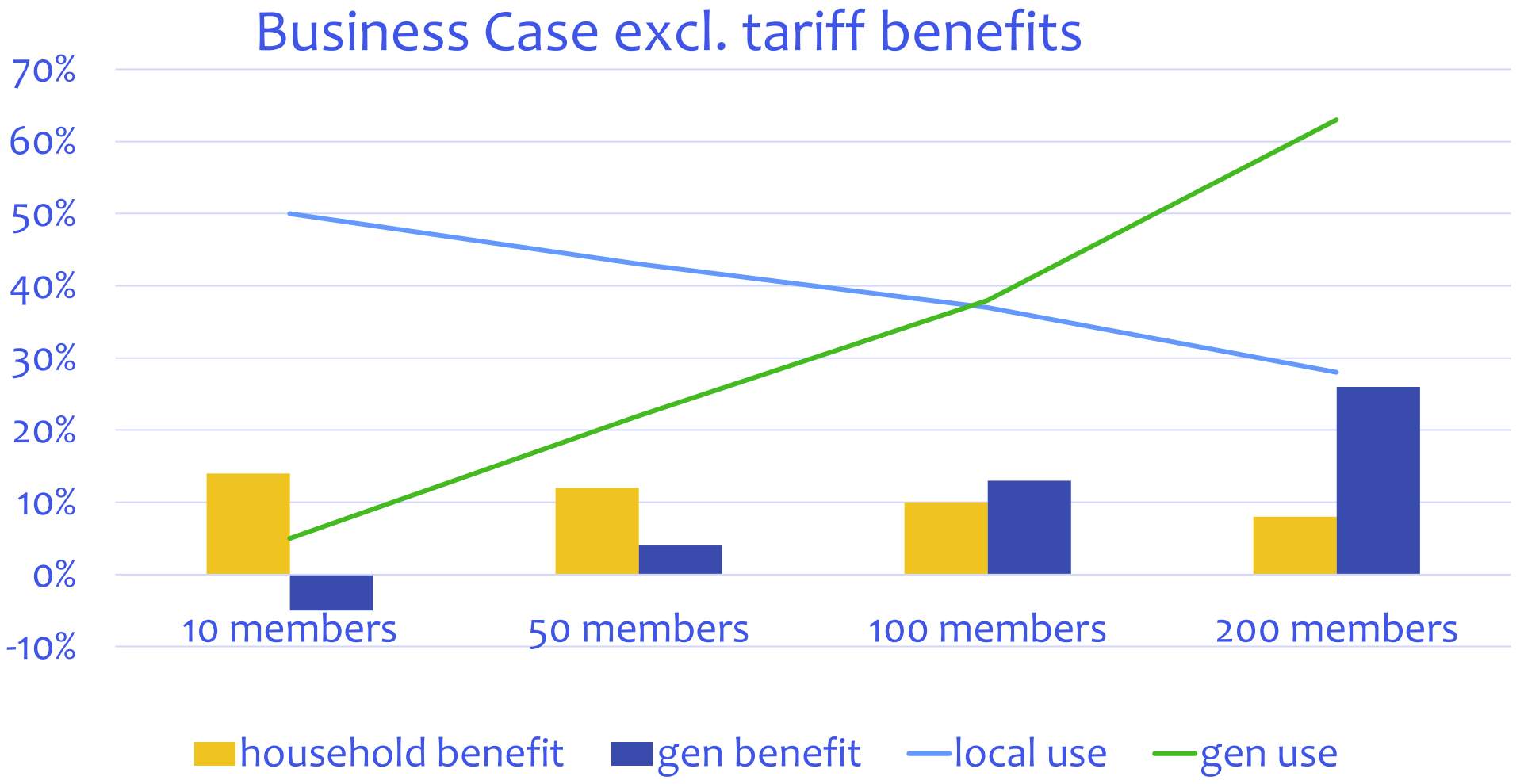

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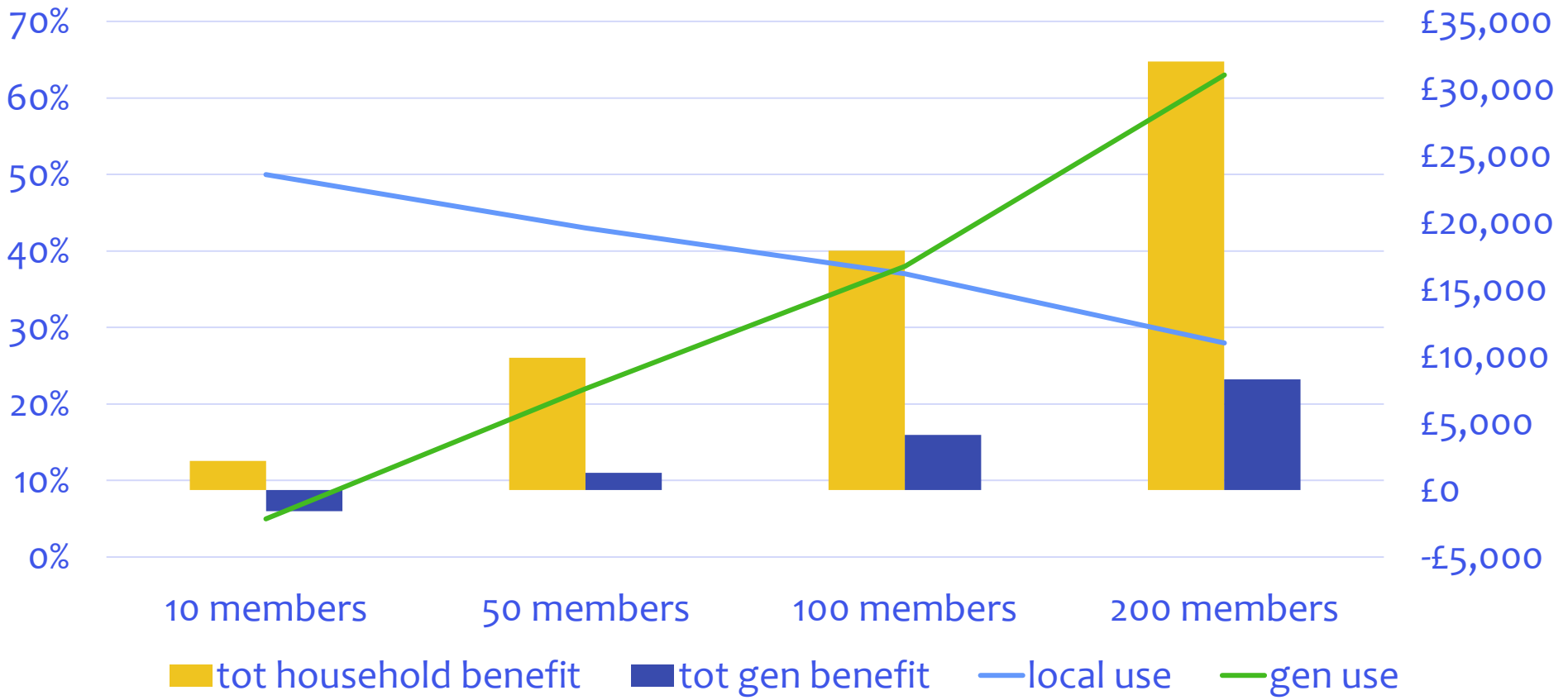
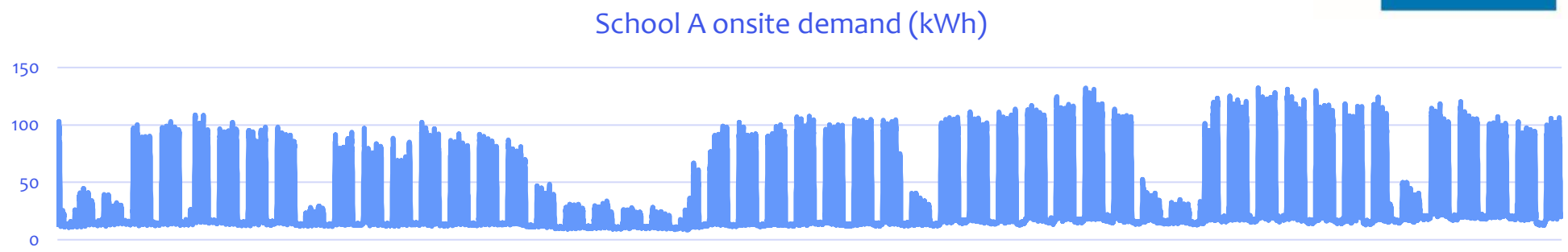
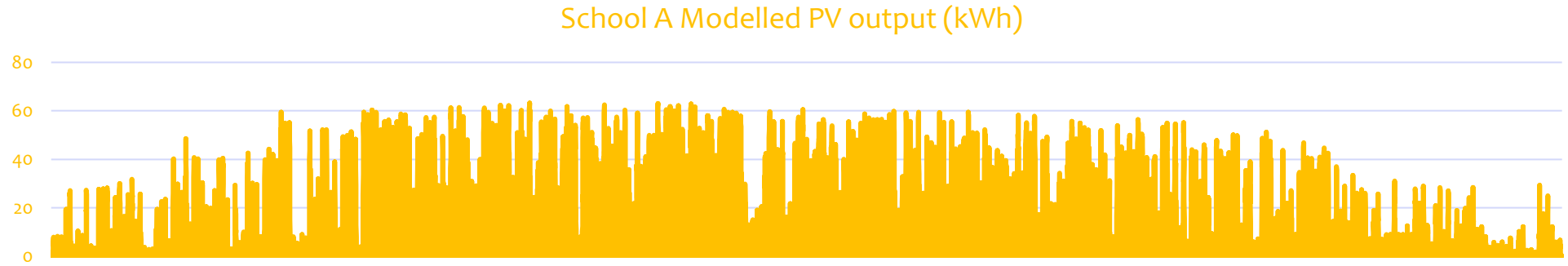
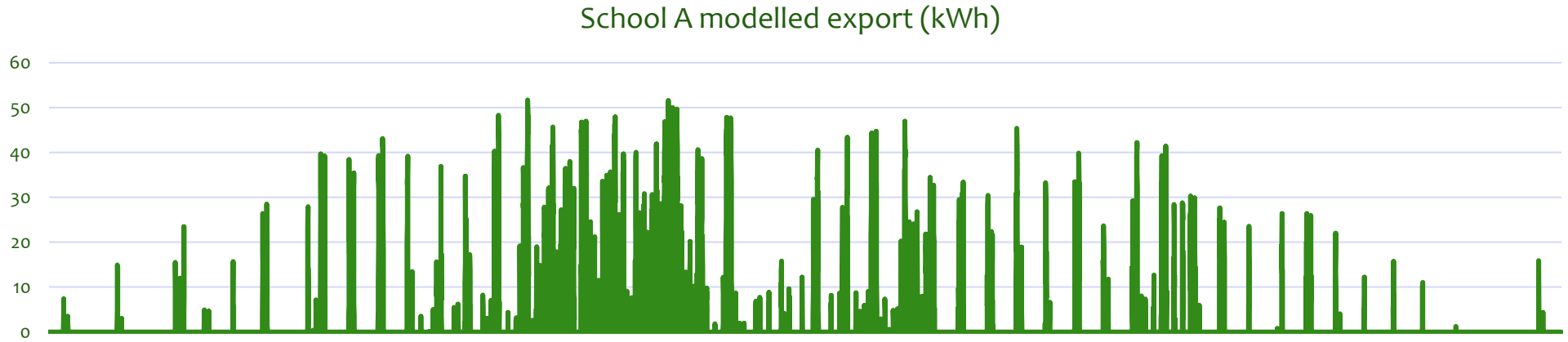


Local supply alongside onsite loads







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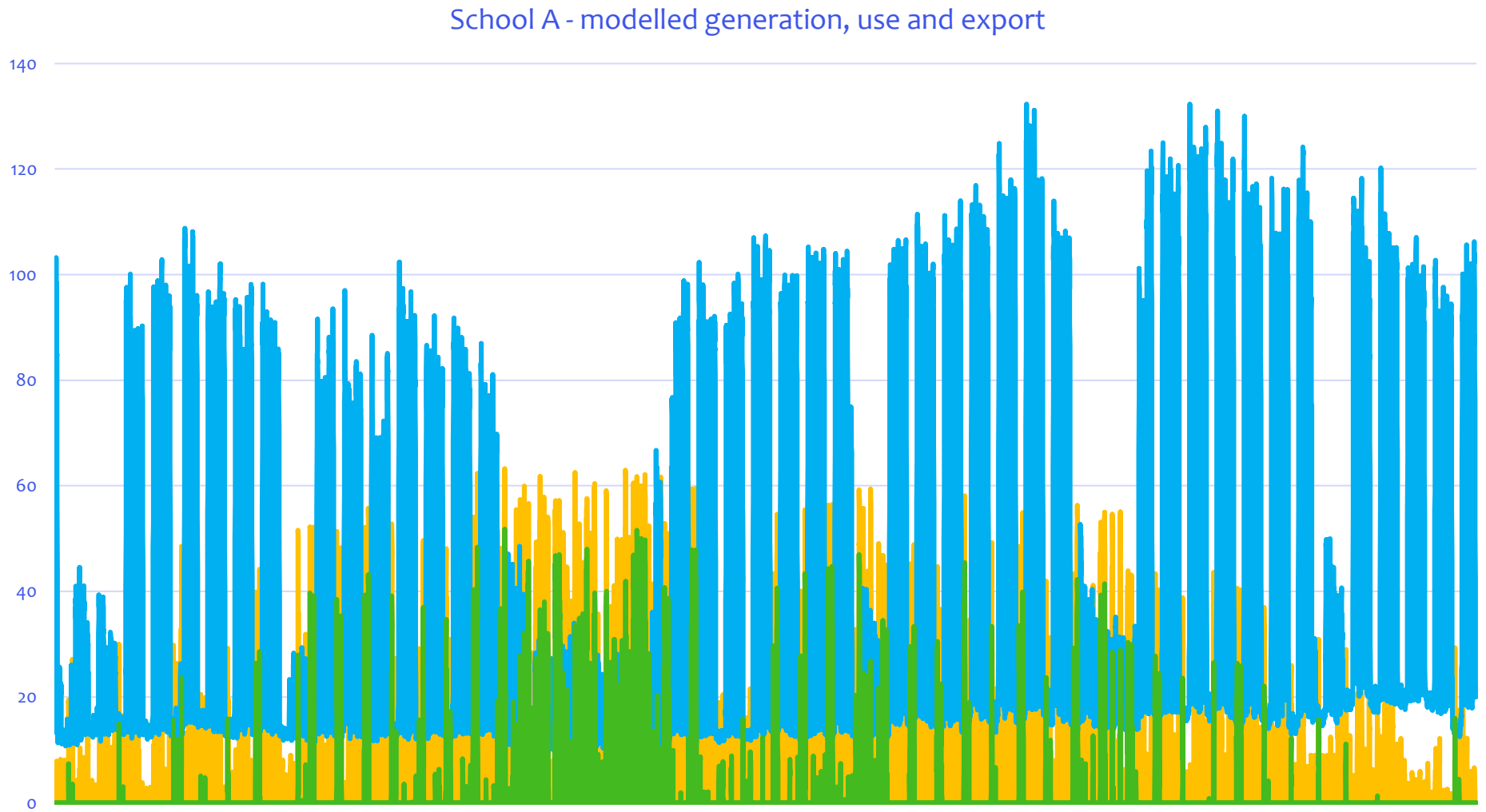
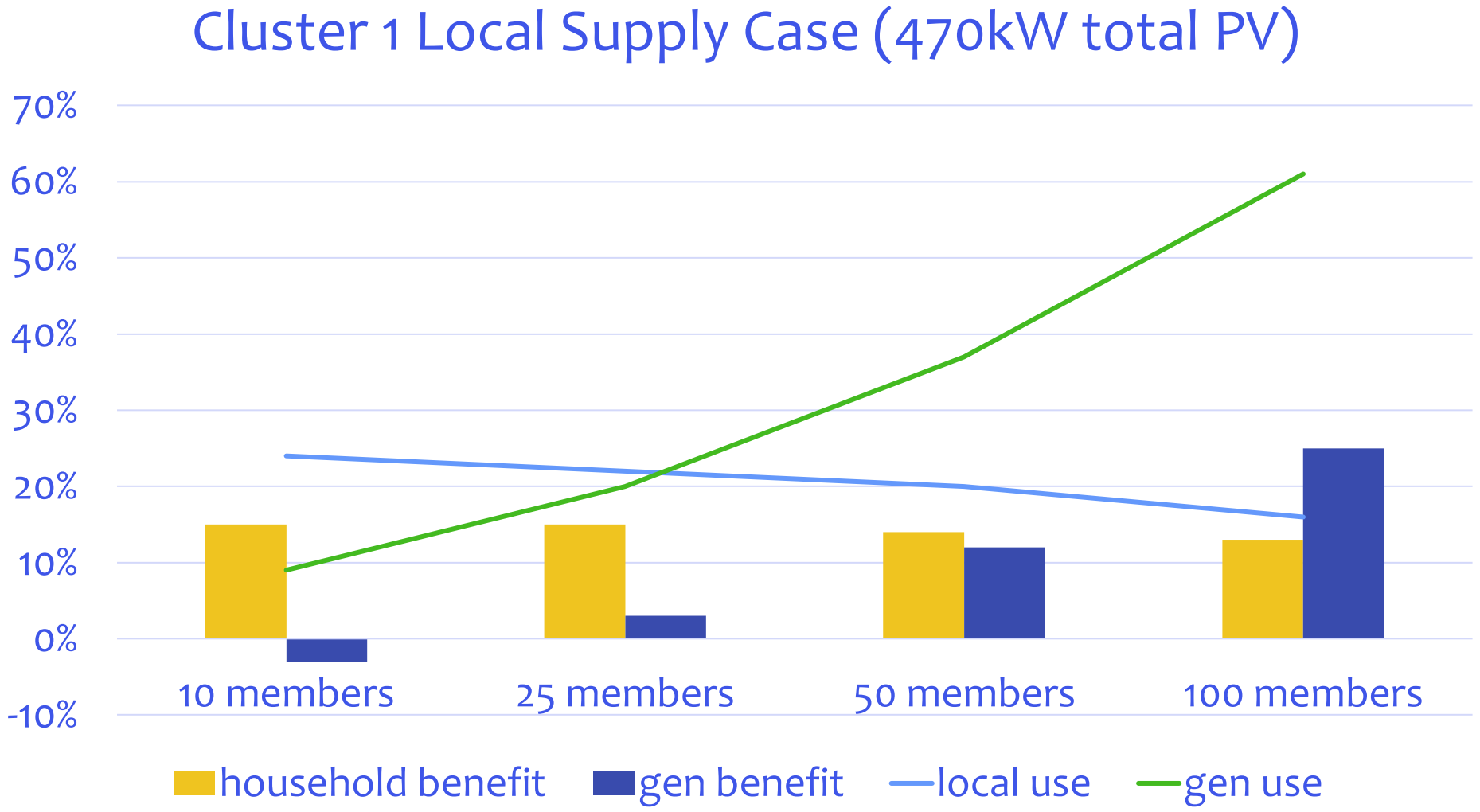


Identifying clusters

Name	Address	System size	Estimated export	Connection voltage	Primary S/S
[redacted]	[redacted]	261.8	48872	415V	Entry Hill
[redacted]	[redacted]	120	18123	415V	Entry Hill
[redacted]	[redacted]	159.39	26344	415V	Midsummer Norton
[redacted]	[redacted]	113.96	32259	415V	Midsummer Norton
[redacted]	[redacted]	168.38	24198	415V	Foxhills
[redacted]	[redacted]	122	14663	415V	Foxhills
[redacted]	[redacted]	188	32568	415V	Midsummer Norton
[redacted]	[redacted]	250	212952	11KV	Chewton Mendip

Cluster Business Case



Next Steps

- Continuing to support P441 efforts
- Seeking aggregation meter partner for north Bath supply project
- New LV ground mount development
- SWNZ Hub support to investigate PV designs which maximise peak time output
  - East / West arrays; vertical mount PV; mixed technology sites
  - Recognition in PPA prices
  - Use to mitigate solar PV value erosion risk

Any Questions?....