

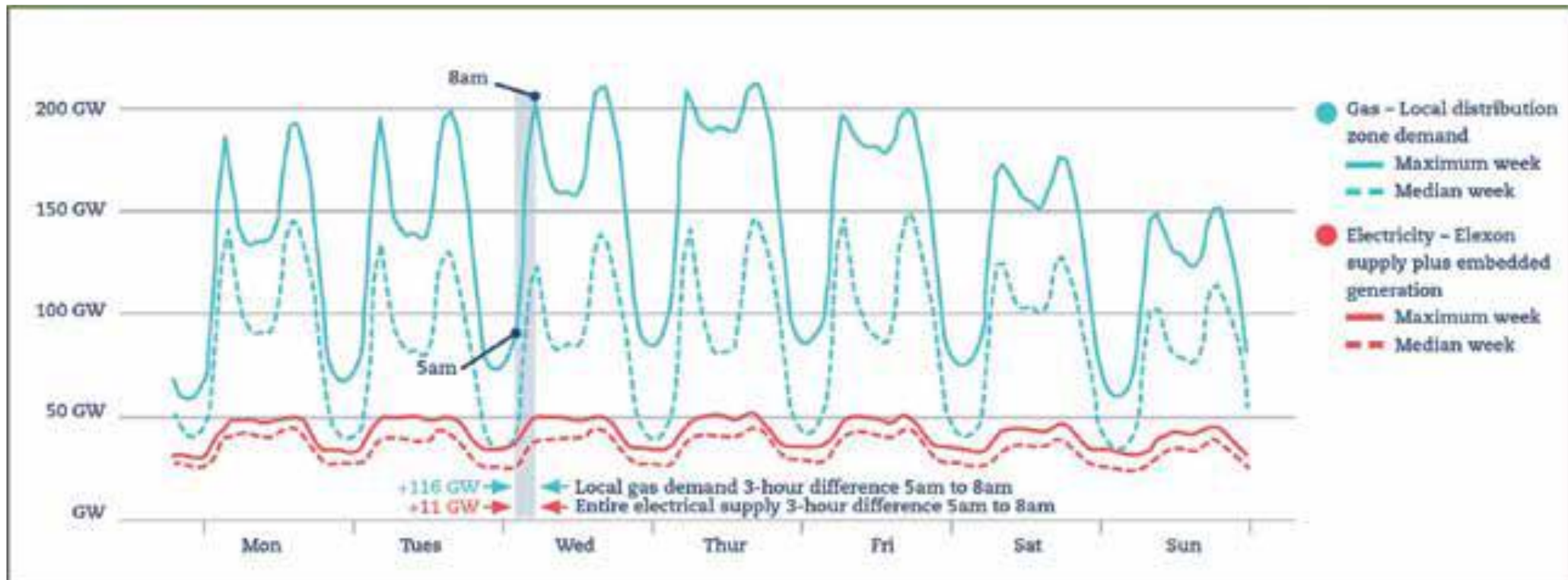


Policy Masterclass: Energy Storage

Application of Phase Change Materials

CIBSE TM 67 (Nov 2021) - the importance of thermal storage

- The UK peak heat demand (on the gas grid) is between three and four times the peak winter electricity demand



Using thermal storage to facilitate transition

- Reduced export of renewable energy generation
 - Reduces demand on the grid
 - Reduces CO2 emissions
 - Reduces running costs
- Decouple the electrical demand from the heating/cooling and hot water demand
 - Enables load shifting and the reduction in peak demands –
 - reduces demand on the grid
 - Reduces central plant size
 - Avoids peak tariffs and reduces running costs

Barriers?

- Capital costs
- Space constraints

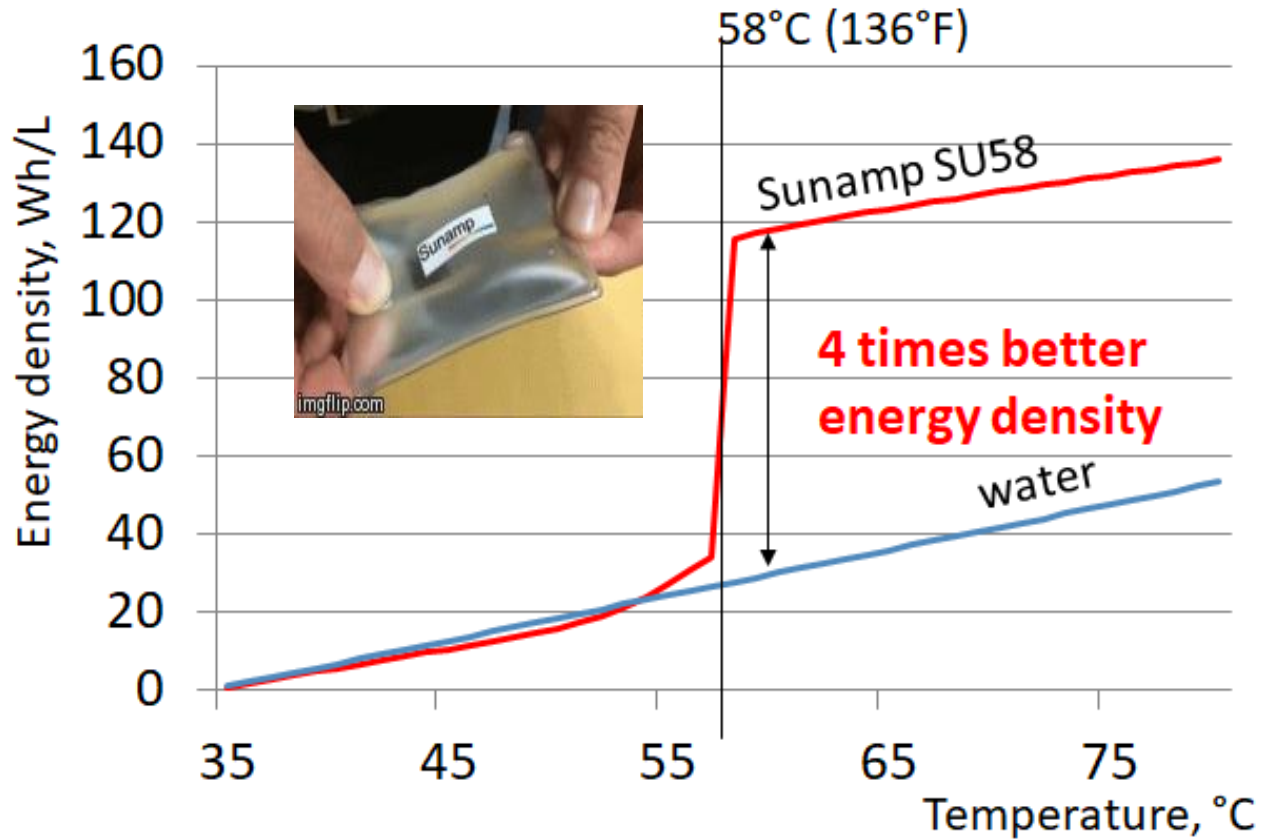


Phase Change Materials

A SUSTAINED WITH TECHNOLOGY
SUNAMP THERMAL PLANT GRADE



Using Phase Change Materials for thermal storage



Compact: 3-4 x smaller

A+ rated: 2-4 lower heat losses

10 Year warranty

Faster and easier to install

Energy Agnostic

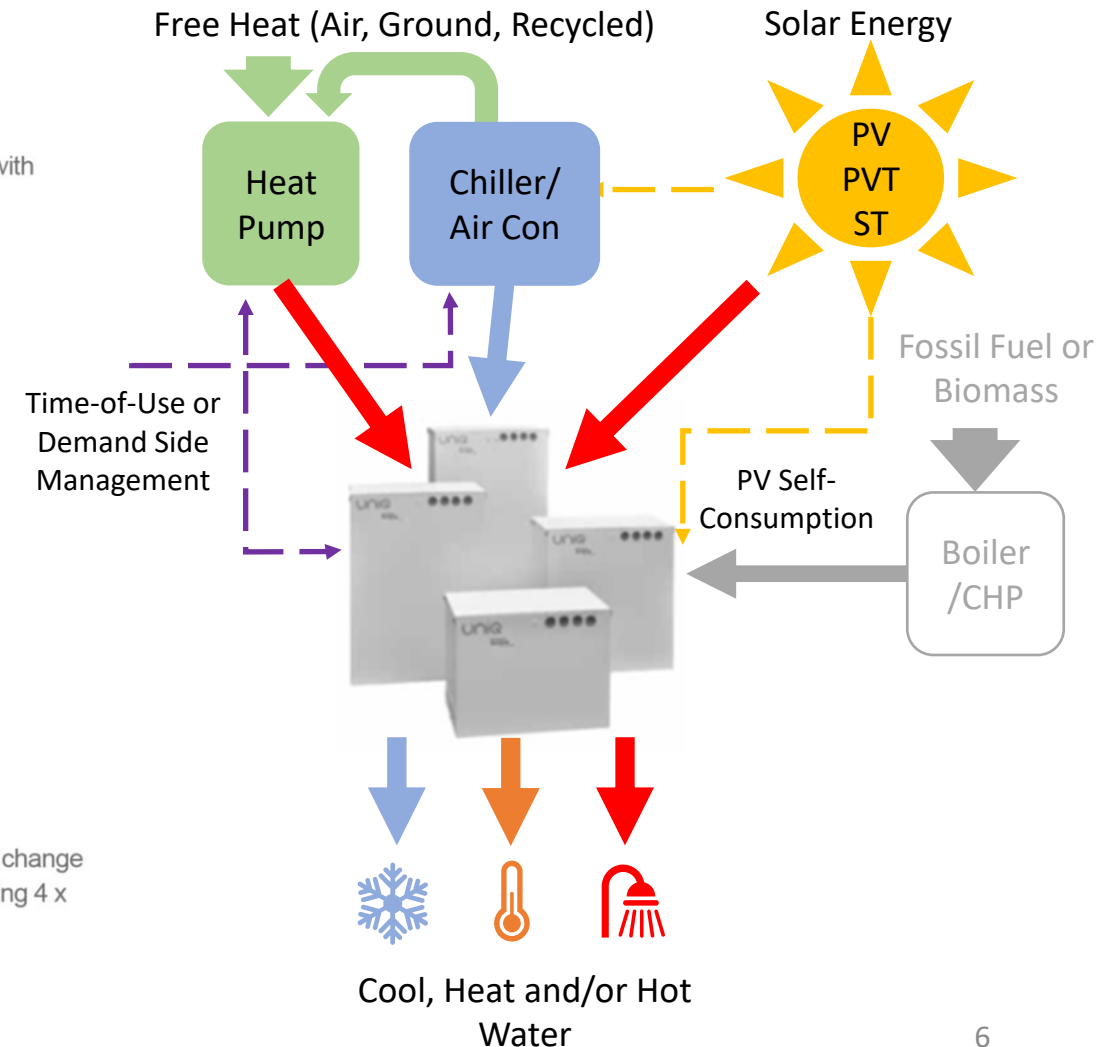
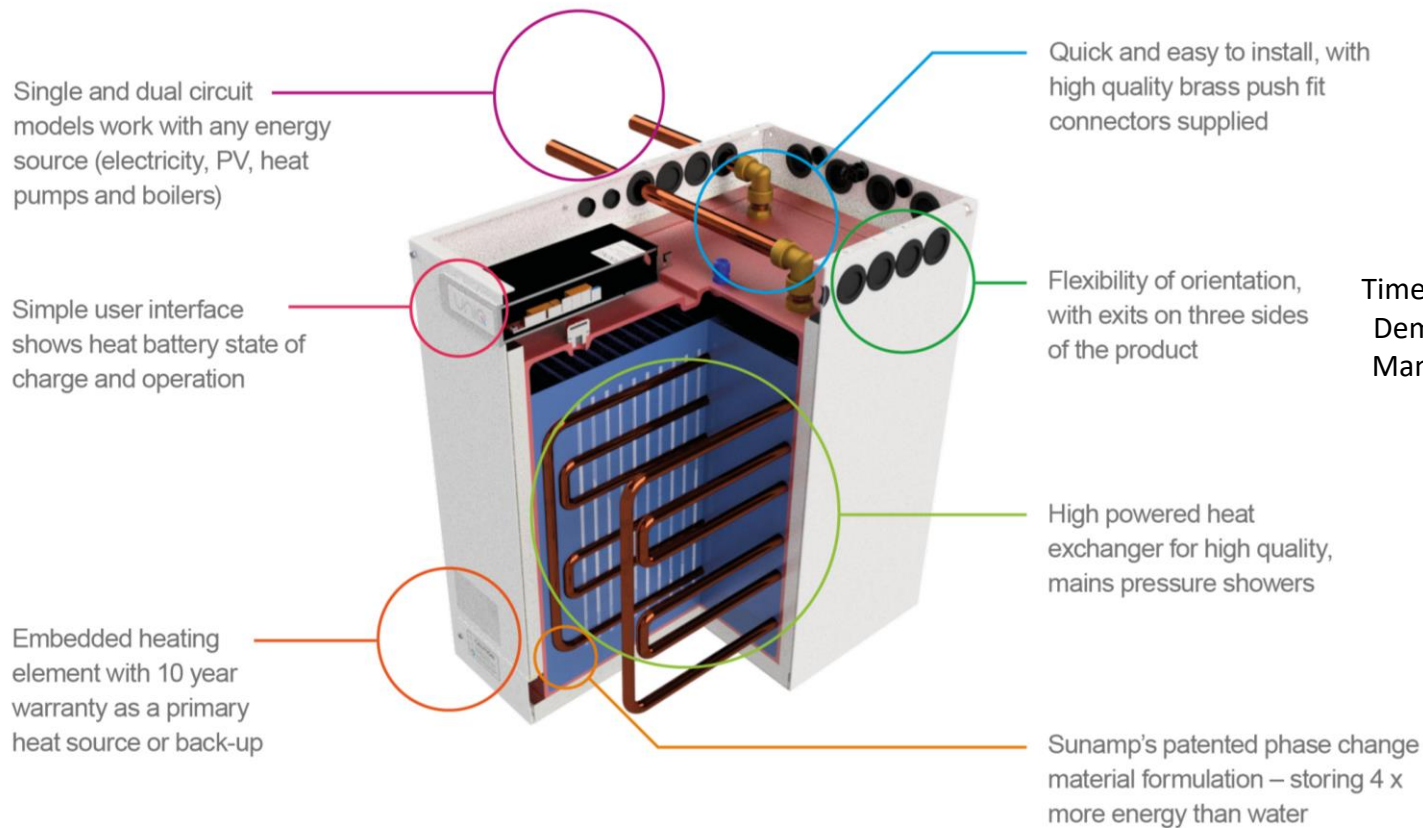
Mains pressure with high flow rates

No maintenance

No legionella risk

Reduced life cycle costs

Compatible with almost any heating apparatus, HVAC system & renewables









World leading thermal storage technologies

Thank you for listening

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