

Solar Energy UK (SEUK) and the Planning Advisory Service (PAS) present:



Workshop 6: Solar farms and Batteries

Thursday 10th October, 9:30-10:30



Agenda



Time	Topic
9.30am	Welcome and introductions, PAS
9.35am	Presentation: Solar farms and Batteries, Dan Corcoran & Tom Johnston, RWE
9.50am	Q&A – Panel discussion
10:25am	Closing remarks, SEUK
10:30am	Session ends

An introduction to the organisations



Planning Advisory Service

PAS supports local planning authorities to provide effective planning services and works with national and local government to help implement changes in the planning system.

Solar Energy UK

Since 1978, Solar Energy UK has worked to promote the benefits of solar energy and to make its adoption easy and profitable for domestic and commercial users. A not-for-profit association, we are funded entirely by our membership, which includes installers, manufacturers, distributors, large-scale developers, investors, and law firms.

Our mission is to empower the UK solar transformation. We are catalysing our members to pave the way for 50GW of solar energy (and 30GW of storage) by 2030 and 70GW of solar energy by 2035. We represent solar heat, solar power and energy storage, with a proven track record of securing breakthroughs for all three.





Solar farms and Batteries



UK Energy Storage

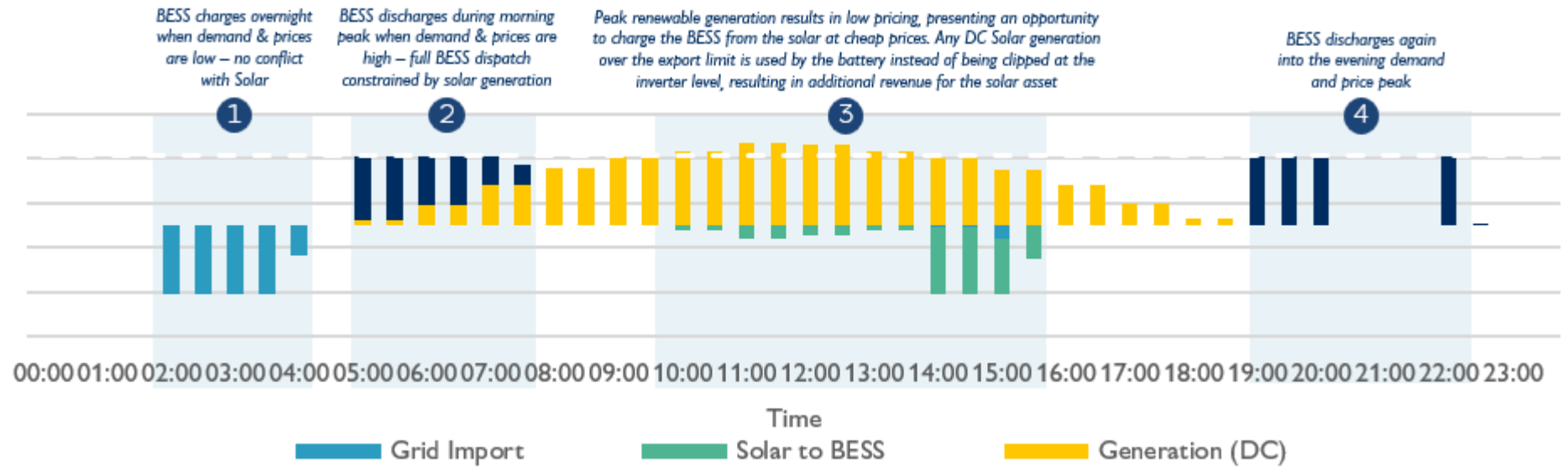
- Today: 4.3GW installed

- 2030 Target ~30GW

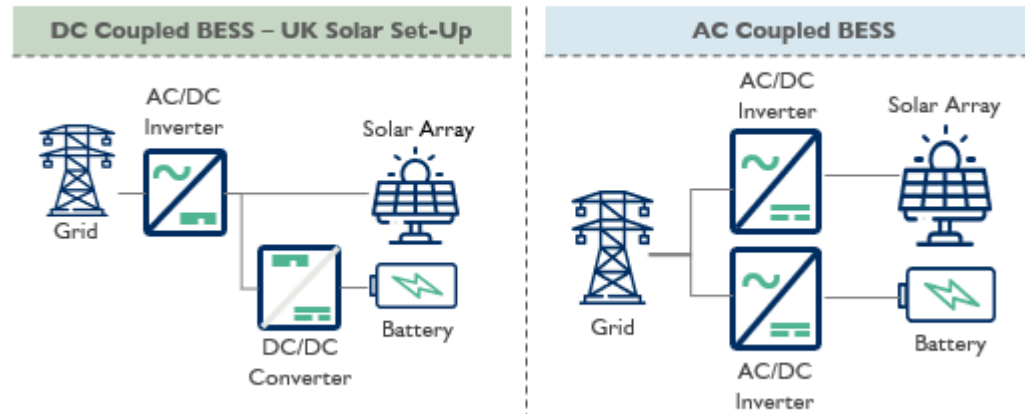
Stand alone or Co-located?



Storing the UK Sun



SOLAR PV + BESS CO-LOCATION CONFIGURATIONS





The Need for Batteries in the Energy Transition

From Load Shifting Renewables to System Services

UK Government Targets



**50GW Offshore
Wind by 2030**



**45GW Solar PV
by 2030**

Making Renewable Generation Dispatchable

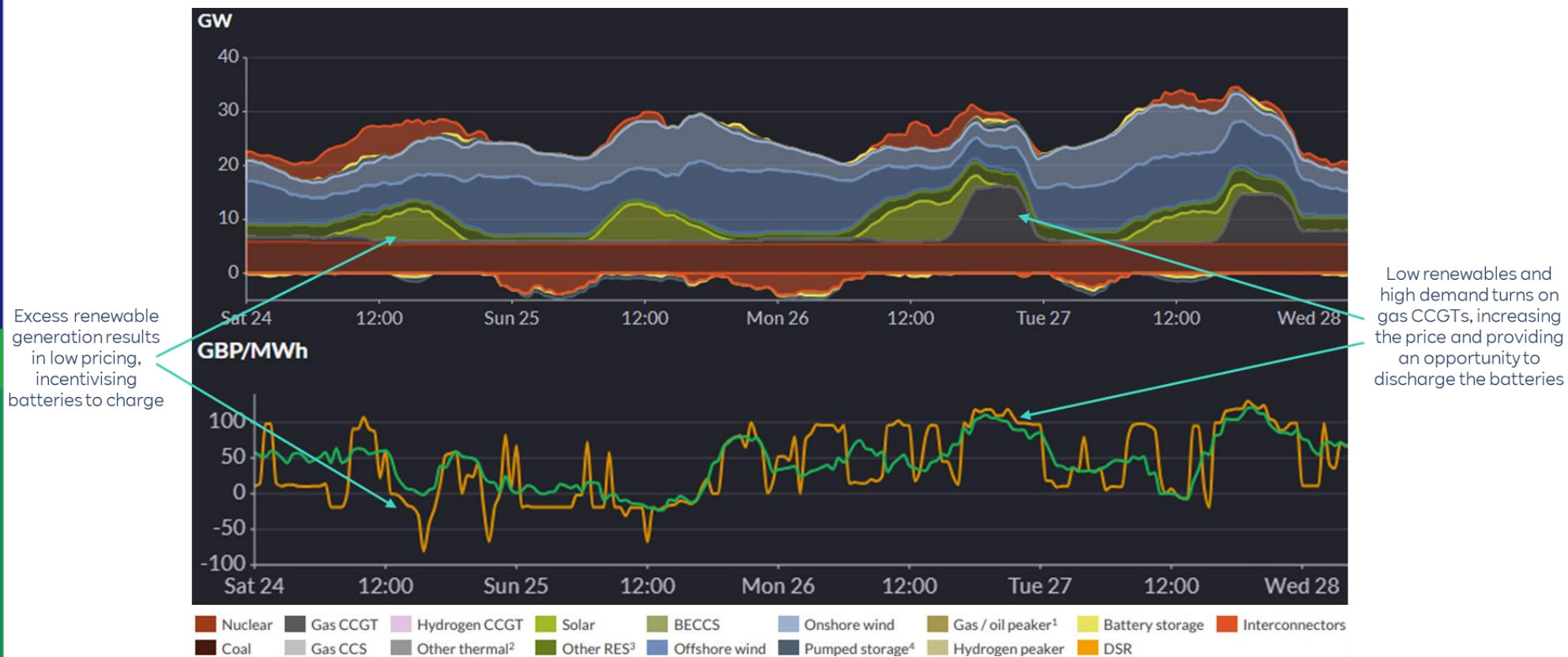
- Batteries will balance the supply of renewables with demand
- Already in 2024, there have been days where demand is fully met by renewables and nuclear

Keeping the Lights on

- Batteries can provide **capacity** when the energy system is tight
- They can respond quickly to **regulate the grids frequency (Hz)**

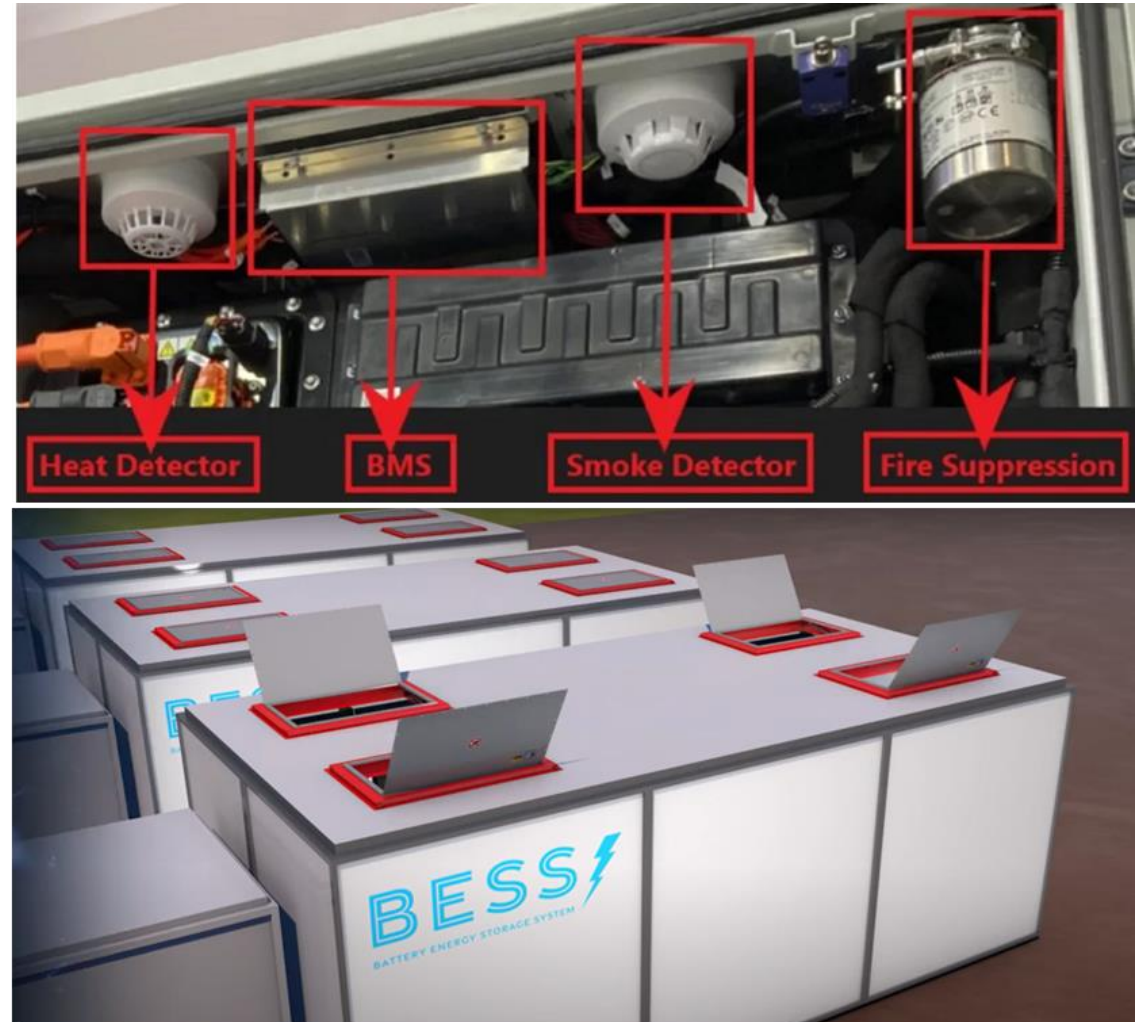
Load shifting

Batteries move excess renewables to times of low renewables, offsetting gas generation



Battery Safety

- Cell level monitoring
- Liquid Cooling
- Remote isolation
- Site Information Points
- Higher operating temperature design
- Internal suppression devices
- DC coupled where possible
- Deflagration Panels



Panel Discussion



Rich Jones
Director at Quod



Dan Corcoran,
Development Project
Manager, RWE



Alex Minhinick
Partner at Burges
Salmon



Claire Curtis,
Area Planning Manager
(NSIPs) and Lead Officer ,
South Norfolk Council and
Broadland District Council



Tom Johnston,
Investment Analyst,
RWE

Please submit any questions for the panellists via slido:





Many thanks to all the attendees, panellists and presenters who have joined the workshop sessions over the last 6 weeks!

We will share the presentations, recordings and FAQs from the sessions shortly.

