



## **Building a case for value stacking**

### Rolls-Royce @ get enspired! 2023

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Note: Exemplary display of key solution space and applications - non-exhaustive



# Solution offering | Battery energy storage systems

EnergyPack QS

### "Small and sturdy"



#### 313 kWh 625 kWh

USPs

- Factory-tested plug-and-play design
- Black-start capability
- Sheltered environment with high robustness
  - Relocatable container
  - Digital connectivity



- Seamless integration of a power plant's diverse assets
- Automated control of power generation, storage and demand
- Optimised operation: lifts efficiency and saves money, fuel and emissions

- Seamless integration, scalability & fast commissioning
- Black-start capability
- Up to +40°C without de-rating
- Ultrafast response, 100% instant load acceptance
- Digital connectivity



Plant manager EnergetlQ The "brain" of the power plant

- Seamless integration of a power plant's diverse assets
  - Automated control of power generation, storage and demand
- Optimised operation lifting efficiency and saving money, fuel and emissions





Broad range of applications with different level of complexity

Stacking of applications with additional potential to customer's business cases





Through peak shaving with battery energy storage and an intelligent control system, energy consumers can reduce their peak load to reduce grid costs or avoid grid reinforcement







In the peak-shaving case, an energy storage asset would be available 71% of the time to create additional value.







In an optimized business case, grid cost reductions make up about half the benefits of the BESS use case.

Grid services make up the other half.



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Value stacking is key for the efficient use of resources assets:

Increase utilization, reduce payback time

![](_page_7_Figure_3.jpeg)

![](_page_7_Picture_4.jpeg)

![](_page_7_Picture_5.jpeg)

![](_page_8_Picture_0.jpeg)

## Key take-aways

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- Value stacking improves business case of storage asset significantly
- Customers need to be consulted on possibilities
- Close partnership between asset provider, project developer and trading technology provider is key

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Thank you

![](_page_10_Picture_0.jpeg)

![](_page_10_Picture_1.jpeg)

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