



Futureproofing

Energy storage from an owner's perspective

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Batteries ain't renewables

1. Can provide multiple services – and change this over their life.



2. Often do not have the luxury of long-term contracts.

Year	EFR?	FFR?
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With batteries, you've always got **options**.
This is the swiss army knife of energy infrastructure.

The owner's challenge

OPTIONS

1. Multiple services




2. Short contracts

Year	EFR?	FFR?
1	Yes	Yes
2	Yes	Yes
3	Yes	No
4	Yes	No
5	No	No
6	No	No
7	No	No
8	No	No
9	No	No
10	No	No
...	No	No

The owner's challenge

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UNCERTAINTY

1. National Grid, Ofgem



2. Technology



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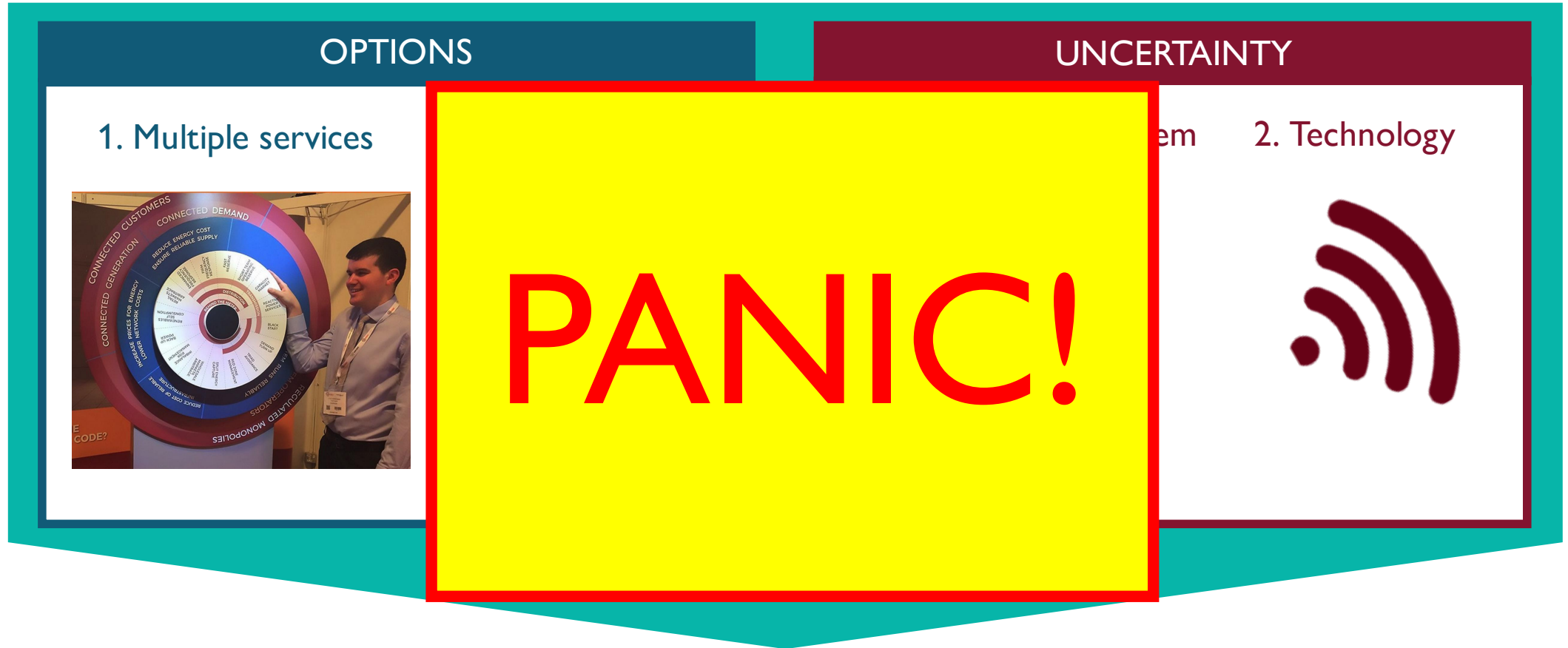
2. Technology



But in the run-up to Financial Close, you have to make fixed, irreversible decisions:

- Which sites to pick?
- Who to supply your kit, and what size?
- How to allocate risk between parties?

The owner's challenge



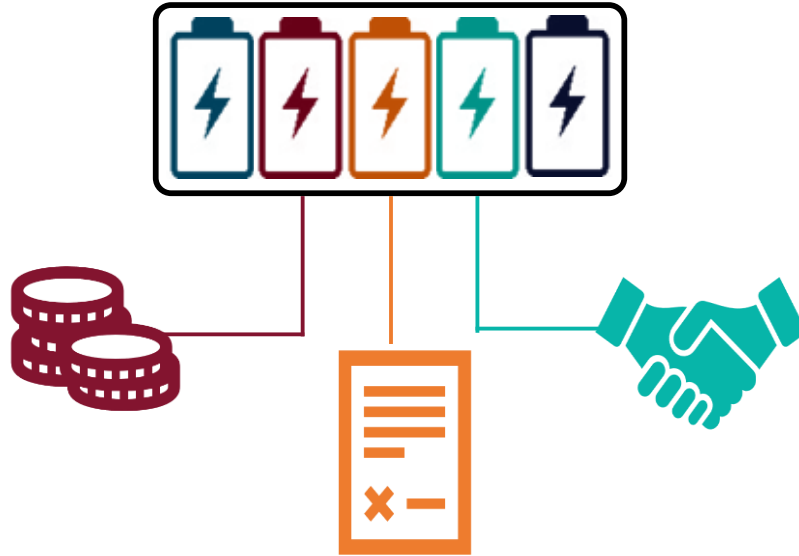
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Futureproofing tactics

1. Maximise your service options

Select location and design criteria carefully, ready to access a range of revenues



2. Negotiate robust yet flexible warranties

Test your warranties against a range of energy throughput scenarios

3. Program your energy management system carefully

Balance revenue maximisation against the need to protect battery health and minimise energy costs

The owner's challenge

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**You can't predict the future.
But you can futureproof your project.**

Thanks for listening

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