

SR Feasibility & Site Selection: Electricity Storage CPD Seminar

In association with









Welcome & Chair







Storage on the Network







Gary Bartlett Scottish and Southern Electricity Networks

SR Feasibility and Site Selection: Electricity Storage CPD Seminar



Storage on the network

Application activity to date

Making the right choices when applying for a connection

- Heatmaps
- Contract Manager
- Online resources

When you are ready to apply

Next steps and further engagement on storage



Application activity to date



4.7 GW of applications received in our SEPD area

Around 500MW of these have been accepted

The majority of this was in response to the National Grid EFR tender, which was only seeking 200MW's across GB

In our SHEPD area, we have only received 125MW of applications to date, but interest has been growing in recent months





Making the right choices with Storage



Check our generation and demand Heatmap tools



Speak to our Contract Manager for that area



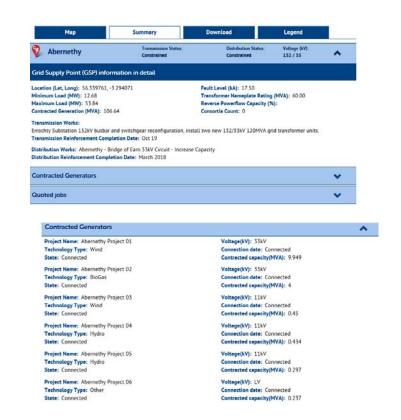
Use the online resources and guides available





Heat-maps





Speak to our local Contract Manager Commercial Contract Team - North





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Shetland Islands and North East Scotland – North Caledonia

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South Caledonia

South Caledonia

Head of Region -

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Connection Delivery Manager -

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Customer Relationship Manager -

David Morrissey - 07767 852093

Customer Connection Manager -Asante Mtalimanja - 07979 854433

Use the online resources available



Electricity Storage

IET storage guide

https://www.regensw.co.uk/storage-towards-a-commercial-model



Energy Storage - Towards a Commercial Model 2nd edition https://www.regensw.co.uk/storage-towards-a-commercial-model



Guide to connecting electricity storage guide for communities and independent developers

https://www.regensw.co.uk/guide-to-connecting-electricity-storage-guide-forcommunities-and-independent-developers

When you are ready to apply for a connection





Provide as much information as possible on the intended use and mode of operation for your storage project



Storage applications currently follow the 'DG application process', however there are currently plans underway to finalise a specific process for storage



Be clear in your application whether your storage project will be 'new', or whether it is being paired with an existing connection



Where you are pairing with an existing connection, we will need to consider whether the request is a 'material change'



The Active Power, Reactive Power and Apparent Power characteristics are very important when completing your ENA application form for storage



Introduction of new milestones specific to storage technology: -SO contract award such as EFR

Newsletters and Events

nsure your security and the security rejister for access. This also gives us the rant documentation, website and polic

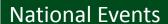








We have a full calendar of events lined up to engage with our customers in 2017



Engagement days

Connections Surgeries

Online

View our events calendar on the SSEN website to find out where we will be next......

www.ssen.co.uk/stakeholderevent/basicsearch







Thank you

Engage with us online

Stay updated with the latest news and improvements by following us online:

Search 'SSEN Connections Engagement'

(C) Twitter.com/ssencommunity

(f) Facebook.com/ssencommunity

(A) www.ssen.co.uk

connectionsfeedback@sse.com











SP Energy Networks

Euan Norris – Senior Project Manager

SP Energy Networks Storage Applications



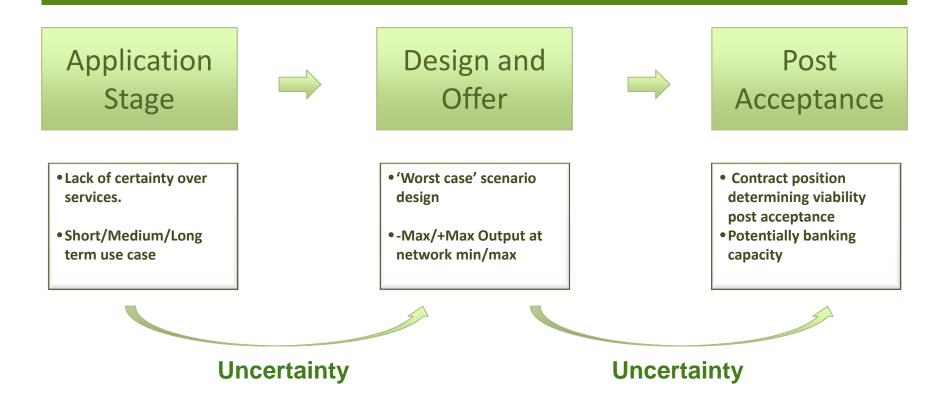
900 MW applications in 2016



200MW accepted offers



Storage Application Process – Challenges



Need to work together to manage uncertainty





Application Stage – Balancing Mechanism market

By understanding the services that you seek to provide we can better understand the system impact of your connection



Wide range of services currently procured by National Grid



Application Stage – Distribution Balancing

Deferral of reinforcement

Storage developers could provide a service to DNOs as an alternative to conventional reinforcement. However there are a number of barriers currently in place:-

- No established market trials have taken place but not an established price for the service
- Needs to complete with both conventional and Smart solutions over whole lifecycle
- Communication from DNOs on where this would be a valuable service e.g. heatmaps

Example

Add 20% capacity (4.8MW) to an existing 12/24MW Primary substation
4.8MW/9.6MWhr battery

Conventional Reinforcement Costs

FFR service

- £4.0M

£17/MW/hr

(up to £148/kW per year)

10-year deferral of £4.0M investment

= £100k/year

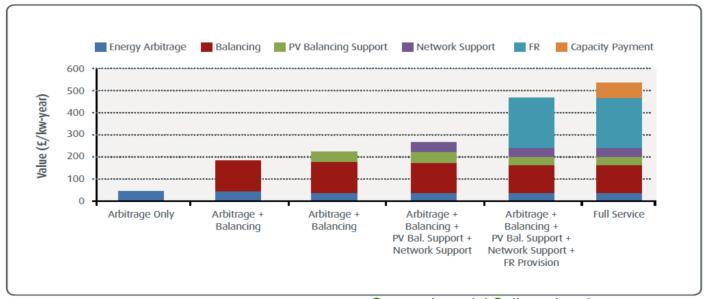
= £20/kW



Application Stage – Stacked Services

It will often be critical for developers to 'stack' services in order to make a project financially viable. It is key that:-

- we understand how a storage site will be operated
- the range of services of any site are complementary and not mutually exclusive



Source: Imperial College, London



Design Stage – 'Worst case' design approach



It is our duty as a network operator to operate an economic, safe and reliable network

- We need to ensure that assets we connect to the network to not negatively impact the existing network or those customers already connected to it.
- That is why to date we have designed to this principle
- We recognise a need to change and be more flexible but we need to manage risk, physically, contractually or through the use of smart network control

We recognise that this is not an optimal approach but need to work with developers to manage uncertainty





Design Stage – Network Impacts

Fault Level Impact

Storage solutions may alleviate thermal or voltage issues but will still contribute to fault level

- Clarity on battery characteristics is key
- We will explore a range of options with you to mitigate fault level issues/reinforcement
- We are also exploring a range of options to monitor fault level in real time as part of ANM solutions

Contract Duration

If the use case of a storage development changes this may affect your connection

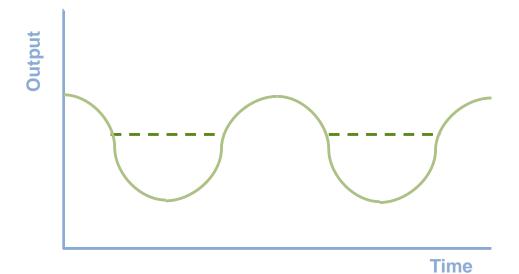
- Build for all eventualities is not a sustainable approach
- Material change process may be appropriate
- In some cases there may be a cost implication if there are adverse network impacts
- Alternative is that these network costs be covered by DUoS – unlikely to be see favourable by Ofgem



Design Stage – Behind the Meter Storage

We anticipate that storage will be considered as an option for flattening the output profile of intermittent generation technologies. It is key that:-

- We understand how the storage technology will be operated
- We are given the opportunity to assess its impact on our network
- A formal **Modification Application** is submitted to network operators





Post Acceptance

SPEN's Queue Management principles will be applied equally to accepted connection offers for storage. It is key that:-

- Accepted offers are able to progress in accordance with agreed progression milestones.
- Consented (shovel-ready) projects should be given the opportunity to advance where possible.

We cannot wait for the outcome of future tender processes

| Project Initial Queue Position | | itial Queue Position | Project | Revised Queue Position | | | |
|----------------------------------|---|----------------------|---------|------------------------|-------------|-----|--------------------------|
| Α | 1 | Stalled | В | 1 | Consented | | |
| В | 2 | Consented | Α | 2 | Stalled | | Subject to reinforcement |
| С | 3 | Stalled | С | 3 | Stalled | | |
| D | 4 | Consented | D | 4 | Consented* | | |
| E | 5 | In planning | E | 5 | In planning |] ` | , |
| | | | | | | - | |



Conclusions

Need to work together to manage uncertainty

Better information on the use case will result in better connection offers

The short duration of service contracts is a challenge

Storage has a significant role to play in system balancing





Site Selection







Anthony Price Swanbarton

Site selection

How can you maximise the value of your asset through strategic site selection? What does the site selection process look like in practice?



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Swanbarton



- Consultancy specialising in the commercialisation of electrical energy storage systems since 2003
- Clients from North America, Europe and Asia
- Market trading devices for electrical energy storage
- Organiser of the International Flow Battery Forum
- Founder of the Electricity Storage Network
- Member of the ESA
- Business based on knowledge of electrical energy storage

08/03/2107



3

Site selection

Where do we put electricity storage?

- Maximising value: choice of site, application and situation
- The site selection process

09/03/2017



If storage was a warehouse

- Put the warehouse in the best place to optimise the supply chain
- Only one warehouse in each supply chain
- Make the doors in and out as big as possible
- Build the warehouse as low cost as possible
- Link the warehouse to other parts of the supply chain to increase its value

09/03/2017



Project issues

- Connection voltage and power rating
- Availability of connection
 - Technical constraints on the connection
- Ownership & licensing issues
- Consenting and permitting
- Ownership and remuneration
 - sharing benefits
 - Predictability of income
- Practicality
 - O & M
 - Decommissioning

- Contracting choice
 - Self design / build
 - EPC
 - Bespoke / commodity
 - Financiers' requirements
- Technology choice
- Site



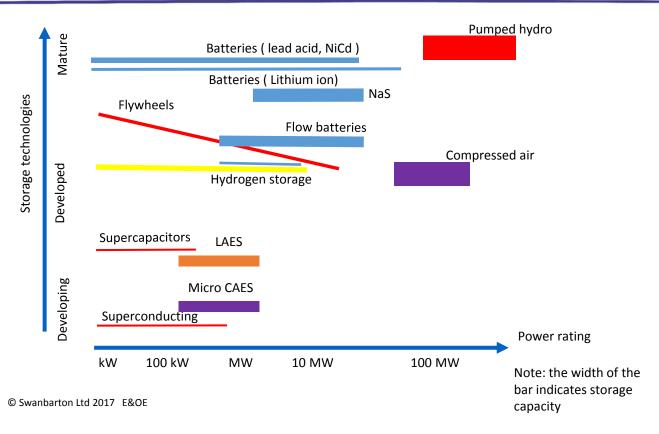
Storage types

| Туре | Sealed systems | | | Separate power / energy | | |
|-------------------------|----------------|----------|---------------------|------------------------------------|------------------------------|--|
| Mechanical / kinetic | Flywheels | | | Pumped hydro | | |
| Thermodynamic | Heat engines | | | Compressed air | Cryogenic storage | |
| Electrical | Capacitors | SMES | | | | |
| Batteries | Lead acid | Lithium | High temperature | | Flow Batteries | |
| Hydrogen / electrolyser | | | | Electrolyser / fuel cell or ICE | H2 / organic cycle | |
| Thermal | Molten salt | Ceramics | Ice | | Pumped heat, heat engines | |

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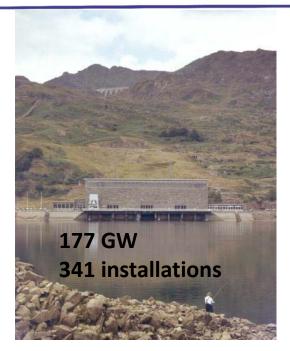


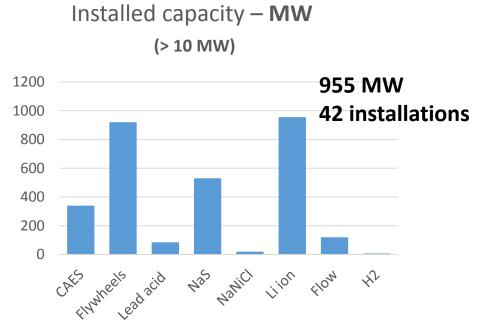
Development status



5

Grid connected energy storage





Source: US Department of Energy, accessed 1 Mar 2017





New build

- 50 MW threshold does it apply?
 - Planning act
 - Join BSC
 - Expenses and time
- Below 50 MW
 - Relatively simple
- Behind the meter
 - Commercially simple

Existing site

- IPPC is there a significant change?
- Change to EIA
- Update fire assessment
- Change to COSHH or COMAH
- Business rates
- Change to connection
- Change to generation status if close to threshold



Storage projects



Leighton Buzzard





Pellworm





Yokohama



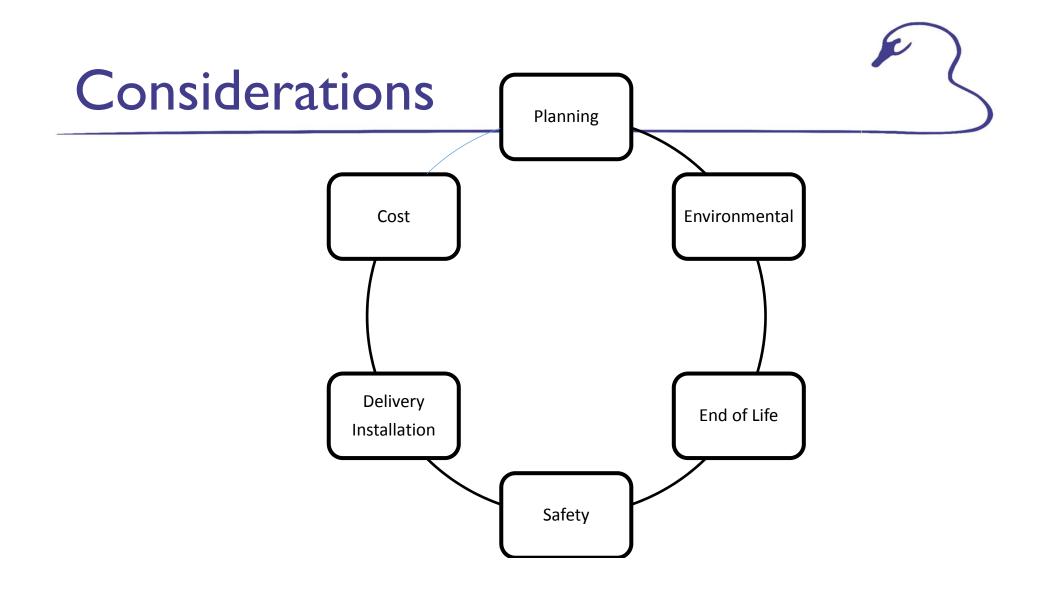


Slough





Photograph: Highview Power Limited







Building

- Permanency Full planning application required
- Visually acceptable in residential areas
- Business rates applicability

Containerised

• Perhaps considered temporary



Delivery / Installation

Building

- Significant construction project
- Larger development footprint for site
- Longer construction timescale



Installation of Leighton Buzzard building housed battery

Containerised

- Fewer workers on site and for less time
- Smaller construction site, but larger footprint
- More off-site work (Longer lead time)
- Not necessarily lower shipping/delivery co



Installation of Pellworm containerised battery





• Building

- Environmental protection for whole installation
- Extra divisions required to protect key equipment
- Battery warranty protected by good internal environmental control



Containerised

- May require additional environmental protection between containers
- Containers require protection from weather
- Battery warranty can be reduced







- Building
- Efficient fire suppression and HVAC systems
- Containerised
- Duplication of fire suppression and HVAC systems
- Requirement for space between containers requires a greater footprint than expected
- Low cost second-hand containers are not viable



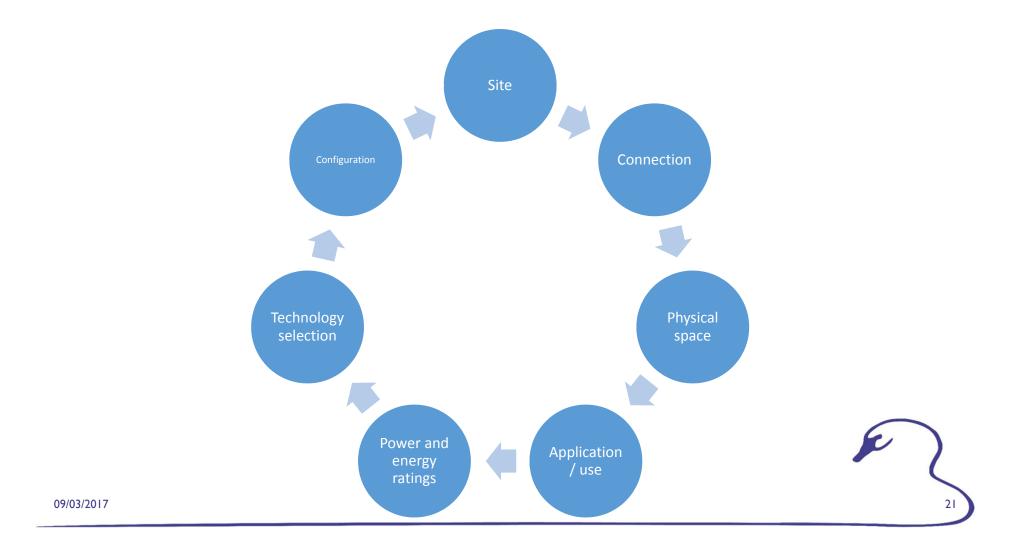




End of life

- Building
- Relocation difficult individual modules can be decommissioned easily
- Building could repurposed
- Containerised
- Easier relocation
- Decommissioning
 - Reduce weight of container
 - Ensure container is undamaged and ready for transport





Site selection

- Land available
- Connection capacity and capability
- Planning consents and acceptability

Site

Use requirements

- Power rating
- Energy rating
- DNO requirements and acceptability
- Co-location / host benefits

- Technology choice
- Cost
- Timescale
- Look ahead
- Change of applications
- Future plant investment

Implications



Site selection in practice

- Luck
- Wisdom
- Planning
- Good advice

Swanbarton Limited www.swanbarton.com

Anthony Price 01666 840948









Networking Break















Nick Brown MRTPI Environmental Planner

8th March 2017



Who are LUC?



Environmental Planning, Design & Management Consultancy

Registered Town Planning Practice

Offices in Glasgow, Edinburgh, Bristol and London

Working within the energy sector in Wind, Solar, Grid and Storage.







Evidence base

Technology

Pumped hydro and battery storage most widespread in planning

Battery storage gaining the most momentum but still few applications in Scotland

Scale

Mostly small to medium scale

Below Section 36 (up to 49.9 MW)

Battery Storage sub EIA





Evidence base

Location

Next to existing Grid

Co-located with other technology

Storage element within broader proposals (e.g. mixed use)

Success

Moderate success rate

Much faster decisions (+ & -) in Battery Energy Storage

Higher success if principle of development is clearer(co-location, energy parks, mixed use)

LUC

What can you expect?

Not a turnkey process...

Innovation = knowledge gaps (applicant and authority)

Guidance and policy vacuum (strategic and local)

SPP and NPF supportive but light touch

Use class confusion – Sui Generis, Class 5 (General industrial) or Class 6 (Storage and Distribution - See

APP/Y0435/X/09/2103771)

LPA's not geared to deal with storage applications

Planning Authority 'Energy' experience counts

Prepare to answer more questions/provide more detail

What can you expect?



Site sensitivities need to be considered fully

Ecology Flood risk Landscape

- May need to massage public opinion
- Non-material considerations creep in (e.g. Building Reg issues/H&S/Politics)
- Precautionary decision making
- Decisions focus on the principle of the development

LUC

Policy Considerations

Principle of Development

- Strategic significance
- Accordance with the LDP
 - Policy considerations
 - SPG
 - Material considerations
- Set your consent strategy!

Policies:

Drainage and Flooding

Ecology/Ornithology

Land/Ground Contamination

Renewable Energy

Security, CCTV and Privacy

Agriculture /Countryside

Design and Visual Impact

Residential Amenity Road Safety

Noise



Setting the Strategy

Know your region



Look at the Local Development Plan

Scheme of Delegation – 5/10/20 objections? likely for committee decision?

Elected Members - Politics/record

Check for precedence

Existing applications

Contentious decisions and outcomes

Submission materials



Planning for Storage Setting the Strategy



Know your Site

Land use

Sensitivities

Survey considerations – No EIA? but still policy requirements!

Assess any fatal flaws

Siting and Design principles – Modular/enclosed?

Weight & Balance

What constraints matter to the development

Are they relevant to planning? (consider material weight)

Predict the planning balance.



Planning for Storage Setting the Strategy



Engage





Evidenced justification

Justify

Planning , Design and Access Statement

Robust demonstration of principle for development

Rationalise exclusions (if there is a need to)







Future Planning What can be expected?

- Need to understand 'fit' with wider planning reform
 - Energy a key message but no means of implementation
- Development front end less cumbersome/less costly
 - Site selection and design practice more standardised
 - Guidance and policy will aid consenting speed
- Support for the decision makers
- Public understanding/perception engrained

Planning for Urban Storage?



What are the opportunities?

- Battery or 'modular' storage opportunities in urban settings
- Brownfield development
- Gap sites
- Synergies with commercial development
- Storage close to demand

Siting and Design Considerations

- Security issues & Integration issue
- Visual setting issues
- Interactions with housing/business
- Scalability
- Grid connections
- Change of use?





Matthew Grimwood Richard Turnbull TLT LLP



Introduction

- Energy Storage & TLT's experience
- What will we cover?
 - Our experiences of storage development activity
 - > Types of energy storage projects & legal pointers
 - ➤ Challenges/barriers to successful deployment
 - > Funding/Investment considerations for energy storage development



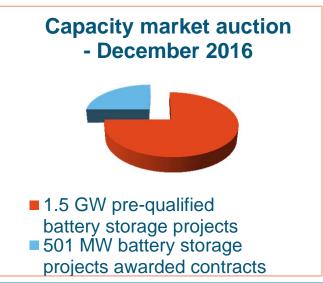
Battery Storage in Action

- Inaugural Enhanced Frequency Response (EFR) tender
- 200MW of EFR contracts (for 4 years) awarded across 8 projects
- Capacity Market Auction 501 MW battery storage projects covering
 28 sites were awarded 15 year contracts



Battery Storage in Action

- 5 sites that were successful in EFR were also successful in Capacity Market
- Over 1.4GW of Demand Side Response projects received one year contracts
- Clear indication of the crucial role battery storage will play in the future of the national grid



Project Structures

- Option Agreement
- Form of lease (or disposition if purchasing the land)
- Title due diligence
- Negotiation of key documents with suppliers
- Corporate structuring
- Tax structuring
- Fundraising debt v equity



Standalone Projects

- Greenfield and brownfield sites as well as conversion of solar option agreements for storage
- Capacity Market & revenue stacking
- Flexibility to terminate
- New Grid Connection
- Reinstatement
- Land Due Diligence Access & Verges
- Lease footprint
- Ownership of equipment
- Rent



Behind the Meter Projects

- Electrically connected to a customer with a significant energy demand at its site
- Significant potential with industrial manufacturers, data centres, hospitals, supermarkets
- Benefits arbitrage, peak shaving, Triad avoidance, uninterruptable power supply
- Revenue streams ancillary services to the National Grid

Behind the Meter Projects

- Key legal considerations:
 - > Ownership is the site operator the owner of the land?
 - ➤ Counterparty strength this may be fine on day 1 but what happens if they decide to sell the site during the term of the Lease?
 - ➤ Grid connection will this continue to be in the name of the Landlord what Landlord covenants do I need?
 - ➤ Export if the site operations are discontinued do you need the ability to export directly to the grid?
 - ➤ Network will BTM storage be connected to a constrained network?

Co-location of Storage

- Existing project structure:
 - ➤ Ownership
 - > Funding constraints
 - ➤ Do sufficient rights exist for storage?
- Shared grid connections and other infrastructure
- Mitigating risks arising from a temporary loss (de-energisation) of the shared

connection

- Termination of arrangement
- Revenue Sharing Agreement
- Grid Sharing Agreement

Challenges

- Storage doesn't fit within UK legislative & regulatory framework
- Potential for double-charging of system use charges
- Is planning permission required?
- Lack of current Health & Safety Standards
- Complex nature of revenue streams and regulatory uncertainty –
 Ofgem Embedded Benefits Consultation

Funding/ Investment Lease Considerations

- Funding remains challenging due to revenue uncertainty what is a bankable revenue model?
- Flexibility to assign/ change of ownership
- Notification to funder on termination events/ irritancy
- Step in/ direct agreement provisions
- Tenant break provisions
- Rights over wider landlord's property/ standard security
- Consents/ property rights in place for grid to point of connection.



Conclusion

- Secure land rights (and prior exclusivity)
- Careful legal structuring around co-location projects
- National Grid tender requirements
- Future proof project documents for funding (and sale)
- Emerging Scottish storage market/ opportunities post subsidy



Thank You

Questions/Further Information:

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The Outlook for Storage Co-located with Renewables



Catherine Cleary TNEI



Otnei

A specialist energy consultancy

The outlook for storage co-located with renewables

Catherine Cleary 8th March 2017

Overview



- 1. Why co-locate with renewables?
- 2. Key barriers to deployment
- 3. Storage revenue streams
- 4. Irish approach a view of the future?
- 5. A case study: modelling a co-located battery
- 6. Opportunities

Why co-locate storage with renewables?



Co-location of energy storage behind the meter on renewable

energy generation sites offers certain benefits:

Reduced development CAPEX

By sharing grid connection assets and land costs

Increased capacity factor

For sites with a constrained grid connection

Accessing additional revenue streams

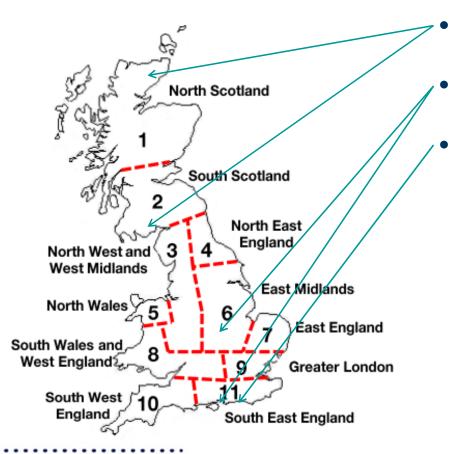
Through charge avoidance and ancillary services



Why co-locate storage with renewables?



Strong correlation between locational ancillary service requirements and high renewables penetration:



Transmission constraint management

Voltage Control

DNO reinforcement deferral

Key barriers



Barriers to storage in general have been widely discussed already:

- Cost
- Regulatory uncertainty
 - Interaction with ROCs and CfDs
 - Definition of storage
 - Network charging
- Grid connections worst case assessment
- Accessing revenue streams from benefits to network
- Revenue stream stacking
- Suitable contracts
- Lack of experience

Some are key to unlocking co-location potential

GB storage revenue streamsFor now...



| Revenue stream | Туре | Contract with | Procurement process | Contract duration |
|---|---|---------------------------|--|-------------------------|
| Energy arbitrage | Through PPA or direct action in BM | PPA or BM | Electricity trades. Bids and offers in the BM | Variable |
| Super-red tarrifs | Embedded benefit | DNO | Automatic (result of the charging structure) | Project duration |
| EFR | Balancing service | National Grid | Market tender | 4 years |
| FFR | Balancing service | National Grid | Market tender | 1 – 24 months |
| Constraint management / Reinforcemen t deferral | Balancing service (Future DNO service?) | National Grid (or DNO) | Bilateral agreement or tender | Annual (or variable) |
| Reactive power | Balancing service | National Grid | Market tender | Annual (or variable) |

GB storage revenue streamsFor now...



A sensible "shortlist" of services for a battery development in the next 2-3 years:

Stand-alone Frequency Response concept

- EFR or FFR (excluding peak time periods)
- Triad avoidance
- Super-red DNO Use of System charges

Revenues not location specific.

Clear prioritisation of Frequency response

OR

Co-located "flexibility" concept

- Time-shifting constrained generation output
- Wider transmission/distribution constraint management
- Energy arbitrage
- Network charge avoidance
- Reactive power (Voltage control) tneigroup.com

Revenue is location specific

GB storage revenue streamsThe future...?



More "flexibility" services aimed at resolving local network issues (DSO level)

Network Reinforcement Deferral **Phase Balancing**

Power Flow Optimisation

Dynamic voltage control

Simplified National Grid balancing services

Pre-Fault
Post-Fault
Margin

Voltage Services

System Security Services



In Ireland, Eirgrid have undertaken a major review of system services:

Part of SEM DS3 programme:

- Intention to operate securely at up to 75% instantaneous penetration of wind and other renewable generation
- 14 new and existing services
- System services will be procured from all providers using a auction based market
- Services of interest to energy storage <u>and</u> renewables.

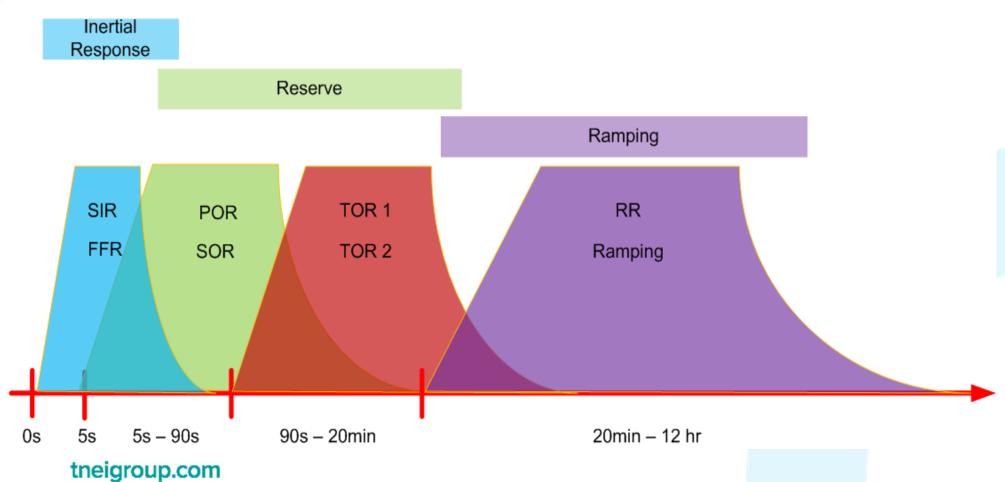




| | New services | | Existing services |
|-------|--|------|------------------------------|
| SIR | Synchronous Inertial Response | SRP | Steady State Reactive Power |
| FFR | Fast Frequency Response | POR | Primary Operating Reserve |
| DRR | Dynamic Reactive Response | SOR | Secondary Operating Reserve |
| RM1 | Ramping Margin 1 Hour | TOR1 | Tertiary Operating Reserve 1 |
| RM3 | Ramping Margin 3 Hour | TOR2 | Tertiary Operating Reserve 2 |
| RM8 | Ramping Margin 8 Hour | RRD | Replacement Reserve (Dyn) |
| FPFAR | Fast Post Fault Active Power Recovery | RRS | Replacement Reserve (Syn) |



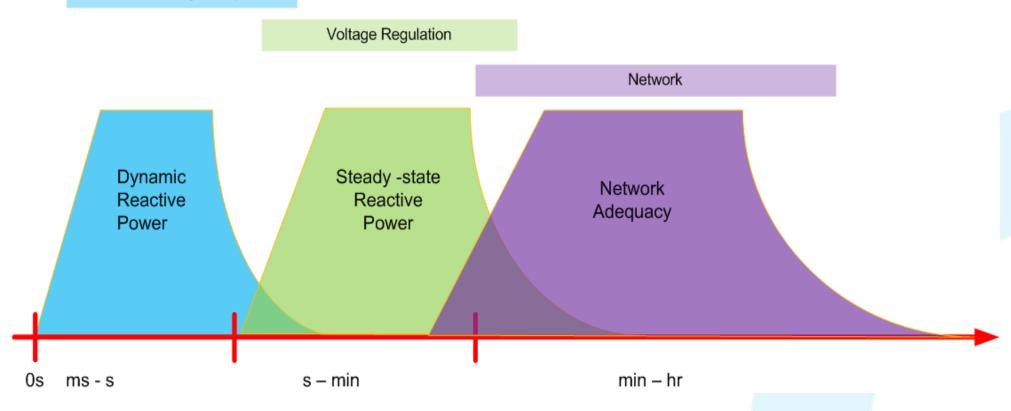
Frequency / inertia services





Voltage services

Transient Voltage Response



Storage accessible services



| | New services | | Existing services |
|--|-------------------------------|------|------------------------------|
| SIR | Synchronous Inertial Response | SRP | Steady State Reactive Power |
| FFR | Fast Frequency Response | POR | Primary Operating Reserve |
| DRR | Dynamic Reactive Response | SOR | Secondary Operating Reserve |
| RM1 | Ramping Margin 1 Hour | TOR1 | Tertiary Operating Reserve 1 |
| RM3 | Ramping Margin 3 Hour | TOR2 | Tertiary Operating Reserve 2 |
| RM8 | Ramping Margin 8 Hour | RRD | Replacement Reserve (Dyn) |
| FPFAR Fast Post Fault Active Power Recovery | | RRS | Replacement Reserve (Syn) |

Case study



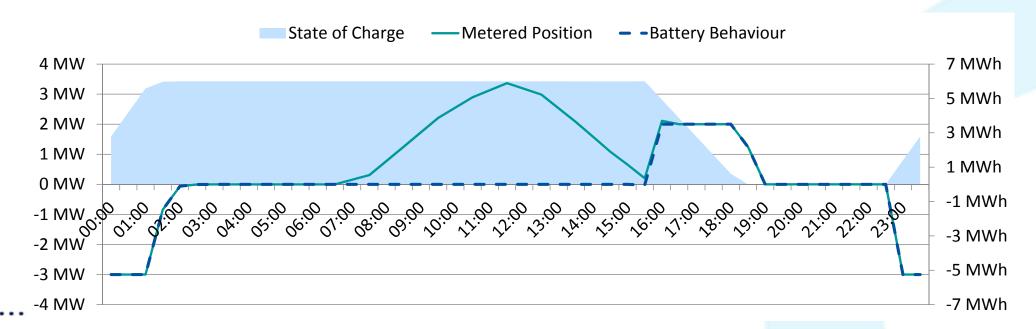
- Planned renewable energy site future development
- No RO / CfD
- Constrained grid connection
- Consider the benefit of adding X MW battery storage "behind the meter"
- Main revenues:
 - Arbitrage
 - Use of system triad avoidance and super-red credits
 - Capturing lost generation
 - Capacity market
- Revenue streams prioritised to optimise returns.

Case study: battery modelling



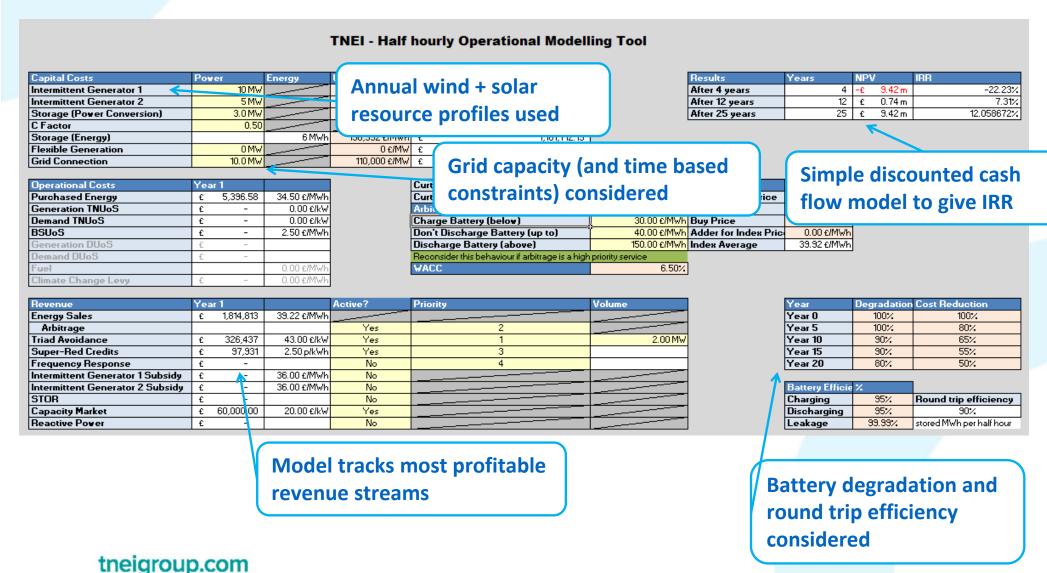
Excel based tool, can model multiple generation types + battery storage

- Behaviour over a year in 30 minute time steps
- Simple logic to determine battery behaviour
- What revenue stream is the site responding to? (service priority)
- Constraints of charging/discharging rate (MW) and capacity (MWh)



Case study: modelling tool





Case study: results



- 10 MW wind farm + 5 MW solar + 3 MW battery storage
- Constrained grid connection

Adding storage gives a modest increase in IRR for this project

- Main revenues:
 - Arbitrage
 - Use of system triad avoidance and super-red credits
 - Capturing lost generation
 - Capacity market
- Battery prices need to continue to decrease
- Viability depends on site specifics and optimising installed battery size.

Finding the opportunities



| Conditions where co-location of storage is most suitable | | | | | |
|--|---|--|--|--|--|
| Grid connection | Constrained or actively managed connection Connections delayed by upstream reinforcement | | | | |
| Regulation | • Subsidy-free future development – no RO/CfD conflicts | | | | |
| Network charging | Sites with high time-of-use credits available | | | | |
| Ancillary services | Location-specific revenue streams (e.g. reactive power) Tapping into trials / new local DSO services as they emerge | | | | |
| Onsite loads | Sites with high non-controllable demand Sites where onsite generation and onsite demand occur at different times | | | | |
| Site suitability for battery? | Physical space Low expected landscape impacts Low noise impact Low ecological impact Low flood risk | | | | |





Thank you

Any questions?



Q & A





SR Feasibility & Site Selection: Electricity Storage CPD Seminar

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