

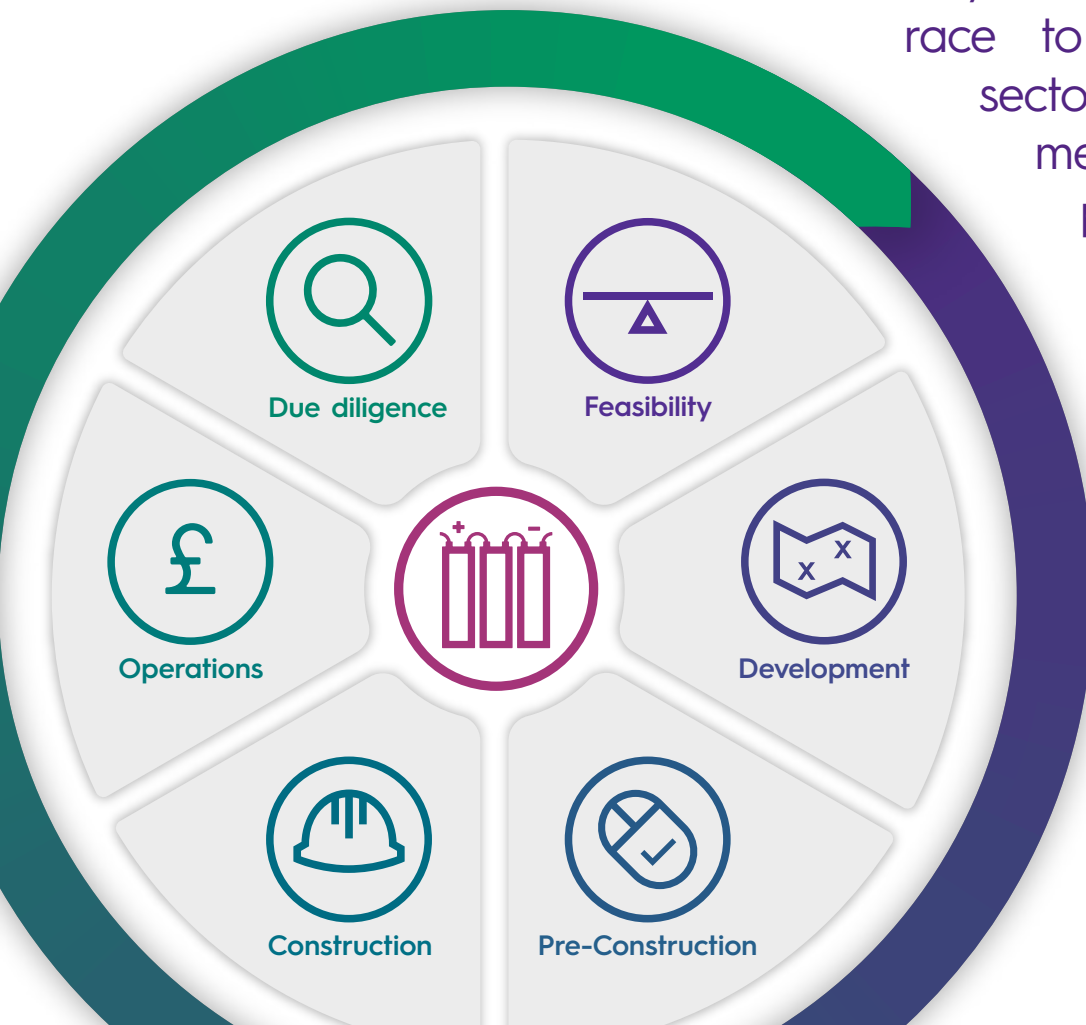
STORAGE QUALIFICATIONS



Energy storage now provides an effective means of managing the peaks and troughs in energy generation from renewable sources.

Not only does this continue the race to decarbonise the sector, it also helps meet the demand for predictable, reliable sources of energy.

In response, Natural Power has built a team of international experts to advise on the how to include this technology into new and existing sites.



Key energy storage services

Our team can support you across all key stages of your energy storage project, including the following:

Developing

- Site selection
- Feasibility
- Land/lease agreements
- Environmental assessments
- Planning application & consent management
- Procurement
- Electrical and grid engineering services
- Due diligence

Constructing

- CDM compliance
- Safety reviews
- Design & advisory
- Grid & earthing studies
- client representative/owners engineers
- community liaison
- Project management
- Due diligence

Operating

- H&S management
- Aggregation services
- Inspections & maintenance
- Monitoring the health of assets
- Management of grid outages and constraints
- Due diligence

Energy storage key resources

Key Senior Staff	Credentials	Project Management	Site Assessment	Environment & Planning	Health & Safety	Design	Procurement & Contracts Review	Construction	Due Diligence	HV & Site Operation Services
John Woodruff	MRICS, FCAAV	X		X						
Euan Hutchison	MRTPI	X	X	X		X			X	
Chris Robinson	MSc	X		X						
Morgan Houtmeyers	BEng, NEBOSH, APM	X			X		X	X		
Alan Knight	BEng, MIET	X			X	X	X	X		
Meriadeg Charlou	MSc	X			X	X	X	X	X	
Hannah Staab	MSc	X							X	
Neil Marshall	MPhys, MSc	X							X	
Kelly Wyness	MSc	X		X						
David Armour	MIOSH				X					
Craig Cunningham	BSc, CSCS, CDM certified, Prince 2	X	X			X	X	X		
Alistair Parlett	SAP, SRAO	X				X	X			X
Ralph Spernagel	BEng	X			X	X	X	X	X	
David Stroud	BEng, MSc, SAP	X			X		X		X	X
Andy Precious	BSc	X	X	X					X	

Our Clients

We are proud to work with a wide range of clients including utilities, community funds, independent developers and investors. A partial list can be found in the table opposite and contacts can be provided upon request.

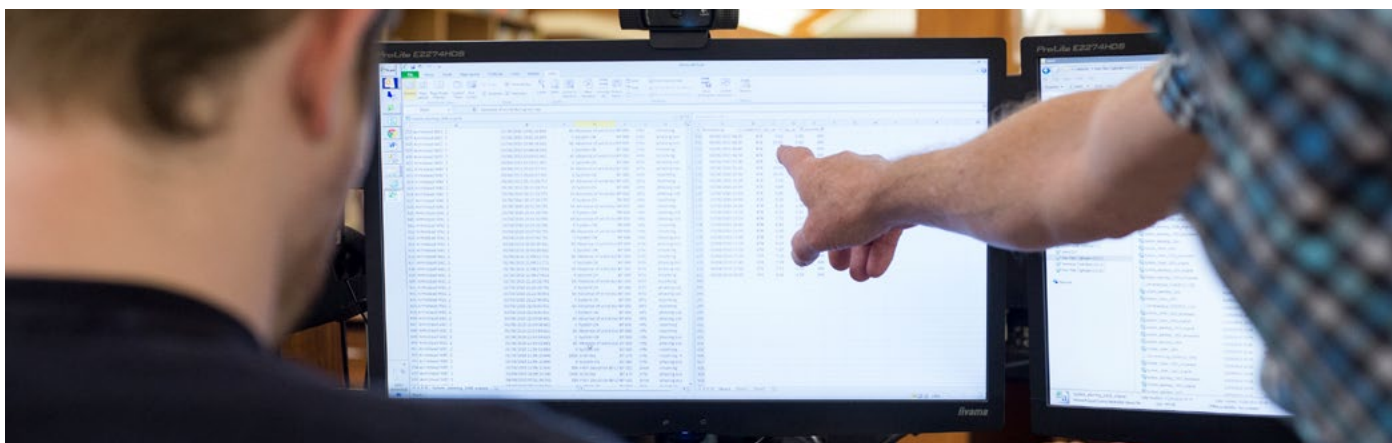
Selected storage experience

Client	Year	Project	Services
Grid Battery Storage Limited & Gravis Capital	2017	Dorking: Development of 6MW battery storage project	Natural Power delivered pre-financial close due diligence to the lender, developed the Employer's Requirements and produced and managed the invitation to tender documentation for the civil works contract. Natural Power also acted as the engineer for the civil works contract.
Vattenfall	2017	Pen y Cymoedd and Ray: co-located battery and wind farm project	Natural Power delivered the planning application and consent management services for the client.
Valorem	2017	Co-located battery and wind project Saint Rose wind farm, Guadeloupe	Technical due diligence for a 16MW wind farm in Guadeloupe including utility scale storage system, production forecast and energy management system.
Carsphairn Community Council	2016-17	Feasibility study for community battery storage solutions.	A feasibility study of a commercial scale centralised battery and decentralised domestic scale installations at all properties within the parish was undertaken, followed by the development of a business case.
RES	2017	Early stage feasibility of 100MW battery storage site	A feasibility assessment of a proposed 100MF battery storage site in Ireland was delivered.
Client - confidential	2017	Feasibility study across a range of renewable energy options on a Scottish estate	The feasibility of a range of flexible storage options was assessed together with their suitability to support the local grid. A financial model was then prepared to establish project viability.

Case Studies



Project:	Ray Wind Farm battery storage colocation project – 5MW
Client:	Vattenfall
Project Description:	Planning application and consent management
Services Provided:	High level confirmatory feasibility review, consultation and liaison with stakeholders, site visit and input into site layout, screening report, attendance at public exhibitions, environmental considerations report, completion of full application and managing subsequent further information requests through to decision; as well as general advice to the client throughout the process.
Added Value:	Natural Power delivered planning application and consent management services for the Pen Y Cymoedd and Ray projects. Careful design and site assessment combined with detailed stakeholder engagement ensured both projects gained consent within tight timescales.



Project:	Dorking Battery Storage Project – 6MW
Client:	Grid Battery Storage Limited and Gravis
Project Description:	Due diligence and civil works
Services Provided:	Natural Power delivered pre-financial close due diligence to the lender. The team produced and managed the invitation to tender documentation for the civil works contract, including the Employer’s Requirements. Following receipt of tender returns a tender assessment was completed followed by a series of technical and commercial clarifications and finally contractor selection and award. Natural Power managed the production of the final contract documents including the schedules of contract and particular conditions. During the site works Natural Power acted as the engineer under the civil works contract.



Project:	Saint Rose Wind Farm, Guadeloupe. Co-located battery and wind project – 16MW
Client:	Valorem
Project Description:	Due diligence
Services Provided:	Natural Power delivered technical due diligence for a 16MW wind farm in Guadeloupe including utility scale storage system, production forecast and energy management system.

Natural Power is a leading independent renewable energy consultancy with experience throughout the development, construction and operational cycles. Established in 1995, we have over 350 staff based in 11 offices across the globe.

For full details on our ISO and other certifications, please visit: naturalpower.com/company

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