

## Results of Competition: Modernising Energy Data Access: Phase 2 (SBRI Competition)

Competition Code: 2007\_SBRI\_CGI\_MEDA\_PH2

Total available funding is £520,000

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Icebreaker One Limited	Open Energy	£259,141	£259,141

Note: you can see all Innovate UK-funded projects here: <https://www.gov.uk/government/publications/innovate-uk-funded-projects>

Use the Competition Code given above to search for this competition's results

## Project description - provided by applicants

Open Energy will modernise access to energy data across industry and address decarbonisation and the climate crisis via economic innovation.

In Phase One we demonstrated the potential for a sustainable, scalable, industry-led solution that will meet the needs of a highly complex market, and address interfaces with regulators. We gathered the support of a material and substantial set of stakeholders and embraced the other participants in the programme in our solutions, demonstrating a clearly extensible model that will interface across markets and clients.

This groundbreaking, forward-looking proposal addresses the organisational silos that work against information sharing. We have validated the need for Open Energy, to agree shared principles and practice to underpin our data infrastructure. Stakeholders repeatedly emphasised that there cannot be no 'single platform' in which 'all data is put' to address 'all use cases'.

Our proposal tackles multiple aspects of the MEDA challenge and the articulated user needs. To deliver taxpayer value-for-money, address public sector needs and catalyse innovation in the SME sector, two programmes of work will build upon and reuse existing, proven processes and systems that enable data-sharing in a parallel sector:

1. **Stakeholder engagement**

A three-month programme convening industry & the public sector to deliver a minimum viable Open Energy Standard based on user needs.

2. **Open Energy Governance Platform (OEGP) prototyping & testing**

Develop a prototype OEGP through which market rules can be applied in response to the needs articulated.

The prototype OEGP will be underpinned by the industry-led shared principles and practice that will be agreed through the industry working groups in our Stakeholder Engagement workstream.

Building on existing public and private sector investments (e.g. Open Banking) we will aggregate, repurpose and redeploy existing processes, practices and technologies which have already received £millions of investment from industry and the taxpayer.

**Our Phase Two roadmap will sequence development to**

1. Enable data publishing in machine-readable formats

2. Enable machine-discovery of data

3. Enable the 'pull' of specific data, subject to governance rules, by specific users for specific needs (e.g. a data platform for specific use-cases)

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SIEMENS PUBLIC LIMITED COMPANY	Your Online Digital Architecture	£259,706	£259,706

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The need for a zero-carbon future is clear. To achieve this, we must maximise the value of existing infrastructure, deploy proven sustainable and low carbon solutions, whilst developing innovative and disruptive ideas to secure a low carbon economy. Data will play an enabling role in achieving these goals, thus ensuring we fully utilise and benefit from the significant quantity of valuable existing and emerging data.

To realise the full potential of this value, the energy sector needs to embark on a data-enabled cultural evolution. This evolution must embrace open data and efficient data sharing, utilising data from multiple energy vectors, encompassing the breadth of the energy system and the plethora of stakeholders within. We need a true 'whole systems' approach to deliver to a secure and managed service, which will provide access to the central data exchange for stakeholders wishing to elicit positive, innovative and lasting change within the energy sector.

Siemens, together with our partners the Energy Systems Catapult (ESC) and National Innovation Centre for Data (NICD) will deliver 'Your Online Digital Architecture' (YODA), a 'digitally integrated energy system' which supports the Common Data Architecture concept.

YODA is underpinned by the implementation of a data platform, constructed upon the requirements of the users and employing a sector specific metadata standard to drive commonality, enabling data-exchange.

The platform will be constructed upon the three building blocks recommendations identified within 'Energy Data Taskforce: A Strategy for a Modern Digitalised Energy System':

- 1\ Data Catalogue
- 2\ Asset Registration
- 3\ Digital System Map

Throughout our YODA project we will actively collaborate and engage with all stakeholders, facilitating user requirement capture workshops alongside show and tell events. This will provide essential insight towards providing best practice guidelines and successful delivery of the project outcomes.

Our events will support organisations who aim to utilise and embed the insight and outcomes, covering topics such as data accessibility, data licensing and liability waivers. Each of which are reflective of the hypernetworks metadata model underpinning YODA.

The challenge is clear -- the true value in data, in support of the transition to a low carbon economy is in enabling visibility, access and insight throughout the energy value-chain.

Our industry must embrace this opportunity as a true catalyst for change, creating an open, yet secure, data marketplace which will create a modern, digitalized, energy system.

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