

References

Below is an indicative sample of ESC projects relevant to this assignment:

International projects

- Working as the Alternate Delegate to ISGAN and leading the ISGAN Annex (now Working Group) related to flexibility,
- Supporting the launch of a new international Mission on Power – Green Powered Future Mission – under the second phase of Mission Innovation (MI 2.0) and leading the development of Mission Roadmap and Action Plan (Ref: <http://mission-innovation.net/wp-content/uploads/2021/11/Power-Mission-Joint-Roadmap-of-Global-Innovation-Priorities.pdf>),
- Mapping opportunities for UK flexibility firms in European energy markets (<https://es.catapult.org.uk/report/europe-smart-energy-and-flexibility-market-study/>),
- International Research Organisation workshops conducted with the Nordic countries where ESC hosted multiple workshops in order to identify the challenges associated with system flexibility in each country as well as propose potential solutions (RTO Reference) (<https://es.catapult.org.uk/report/enabling-smarter-and-more-flexible-energy-systems/>).

UK Projects

- Leading the Future Power Systems Architecture (FPSA) project to identify the new capabilities required by the UK power system to be fit for purpose in 2030,
- Working on a network innovation project with UKPN related to Cold Start,
- Managing contractor for BEIS for the Electrification of Heat UK Demonstration Project,
- Working on BEIS funded Demand Side Response projects, such as FRED (Flexibly Responsive Energy Delivery) alongside Evergreen Smartpower and other partners. This project was provided as part of a BEIS grant fund and informed the consumer appetite for smart demand side response),
- Research into electricity market reform (<https://es.catapult.org.uk/report/rethinking-electricity-markets-the-case-for-emr-2/>),
- Leading the Energy Data Task Force commissioned by UK Gov. and Ofgem to develop an integrated data and digital strategy to help unlock the opportunities of a modern, decarbonised and decentralised energy system for the benefit of consumers (<https://es.catapult.org.uk/case-study/energy-data-taskforce/>),
- Leading the Energy Digitalisation Task Force focused on modernising the energy system to unlock flexibility and drive clean growth towards net zero (<https://es.catapult.org.uk/news/energy-digitalisation-taskforce-publishes-recommendations-for-a-digitalised-net-zero-energy-system/>),
- Long Duration Energy Storage projects. ESC has worked with different storage technology providers and advised them on revenue models, technical requirements, metering arrangements and optimal location based on aims of the provider and the state of the GB market anticipated within the next 30 years,
- Locational Margin Pricing and ESC contribution to OFGEM market consultation, where alternative power markets, their impact on SMEs, Net Zero and long term electricity prices have been assessed (<https://es.catapult.org.uk/news/locational-pricing-could-save-30bn/>),
- Proposal of long-term system operability without large coal deposits and suggesting storage strategies for future low carbon system operation (<https://es.catapult.org.uk/report/zero-carbon-energy-system-the-operability-challenge/>),