Canada energy storage research and development

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Projects funded through our programs focus on influencing the pace and direction of energy system transformation and targeting the most impactful technologies, in order to maximize environmental and economic outcomes. OERD’s programs target “missions” to realize a clean energy future and a sustainable natural resources sector.

The energy system is complex, and constantly changing. OERD connects through funding clean energy projects and developing partnerships with stakeholders with the goals of reducing harmful emissions, and supporting innovation and economic opportunities in the energy sector.

OERD leads Canada"s involvement in both domestic and international energy innovation activities, including as a founding member of Mission Innovation and through energy technology activities with the International Energy Agency. Find out more about our work with the IEA and other International Agencies.

OERD also works with partners, such as Breakthrough Energy Ventures, the Business Development Bank of Canada and Alberta Innovates, to design and deliver innovative funding programs, for both the public and private sectors, to facilitate Canada’s transition to a clean energy economy. Breakthrough Energy Solutions Canada was launched in 2019 under our Energy Innovation Program, and continues to foster these types of collaborative partnerships.

Since 2016, OERD has invested over$1.4B in more than 850 energy innovation research, development, and demonstration projects.

Canada has all the resources needed to provide lithium, cobalt and nickel to the rapidly expanding battery industry. There is significant potential to increase resource production to develop a domestic battery industry that produces and exports battery materials and technologies.

Thebattery energy storagepillar of the National Research Council of Canada"s (NRC"s) Advanced Clean Energy program works with collaborators to develop next-generation energy storage materials, devices and applications.

By deploying our expertise in critical minerals, battery materials, battery cell prototyping and battery recycling, we enable the widespread adoption of energy storage technologies in various applications within Canada.

This pillar is home to the NRC"s Critical Battery Materials Initiative, which aims to establish automated, AI-enabled platforms capable of discovering new critical battery materials and processes in a third of the time

it takes today, contributing to the growth of Canada"s battery supply chain.

NRC representatives will be reaching out to clients and collaborators directly, to understand their challenges and how we can best support them. We also continue to be available to discuss future projects.