

## Hydro quebec battery materials

Hydro-Québec and the Gouvernement du Québec announce the opening of the center of excellence in transportation electrification and energy storage, with the mission of maintaining and enhancing Québec's global leadership in the field of battery materials.

The center of excellence will commercialize Hydro-Québec technologies, protected by 800 patents. It will also create new research partnerships and develop new technologies.

With 70 employees, including 27 researchers, its 2018 operating budget is of \$20 million, sourced entirely from outside revenue, generated chiefly by the sale of licenses to use its technologies.

The center of excellence is headed by Karim Zaghib, an expert of international renown. Dr. Zaghib was recently named one of the World's Most Influential Scientific Minds for the third year running.

For 40 years, Hydro-Québec's research institute (IREQ) has been recognized around the world for its technological expertise and its portfolio of intellectual property, especially in the area of lithium-ion, lithium-sulfur and lithium-air batteries. This is the portfolio that the center of excellence will commercialize and expand.

"To achieve Québec's energy transition, we need to leverage the strength of our expertise to foster innovation, especially in the area of energy storage," said Minister of Energy and Natural Resources Pierre Moreau. "Opening the center of excellence will help Québec become a leader in energy storage and transportation electrification. This is a concrete illustration of our willingness to provide increased support to research and development, as set out in our Energy Policy 2030."

"The establishment of this center is a new milestone that will enable us to further develop our expertise in battery materials and derive value from our patents," said Éric Martel, President and Chief Executive Officer of Hydro-Québec.

Our major breakthrough involving ultrathin lithium anodes and remarkable advances in polymer technology have positioned Hydro-Québec as a world leader in the development of solid-electrolyte batteries.

This advanced technology can be used in conjunction with solid-state batteries developed by Hydro-Québec, as well as in the design of batteries currently on the market.

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