



Research case study > energy storage

NSERC Energy Storage Technology Network

Version 1 (Updated May 10, 2017)

Context: Modern grid-scale energy storage (ES) - such as large battery systems - are set to transform the electricity system in Canada, bringing immense benefits to industries, utilities, governments and consumers

Problem: Canadian transmission and distribution assets are aging and require significant investments, conservatively estimated to cost \$350B by 2030. ES can help reduce or eliminate these costs while providing a solution to renewable energy intermittency and improving grid resilience.

Solution: This pan-Canada network, funded by NSERC, brings together the brightest minds in academia, industry, utility, and government in four research themes aimed at developing and marketing the next generation of ES technologies.

Impact: NESTNet is poised to become the global leader in ES placing Canada at the forefront of this growing market. The Network will also train highly qualified personnel who will build and operate the next generation of electricity systems with ES.

CUE's role: CUE plays a central role in NESTNet leading its creation and managing the network. CUE researchers are also heading several projects within the four interrelated research themes and providing Ryerson students with hands-on experience.

Sponsors:

NSERC

Timeline:

June 2015-June 2020

Research Team:

Bala Venkatesh

Key stats

5	Years
27	Researchers
15	Universities
26	Industry and government partners