

Kingston installs solar energy storage in winter





Overview

What is the Kingston solar project?

The Kingston Solar Project is a 100 MW solar facility located in the City of Kingston and Loyalist Township. The facility is one of the largest solar projects in North America.

Why is seasonal energy storage important?

These low-carbon energy sources also tend to abate during the fall and winter months. To accommodate the use of this variable energy throughout the year the grid may benefit from economically viable seasonal energy storage to shift energy from one season to another.

Can seasonal energy storage be economically viable?

To accommodate the use of this variable energy throughout the year the grid may benefit from economically viable seasonal energy storage to shift energy from one season to another. Storage of this nature is expected to have output durations from 500 to 1000 hours or more.

Are seasonal energy storage technologies limiting commercial deployment?

This paper reviews selected seasonal energy storage technologies, outlines potential use cases for electric utilities, identifies the technical challenges that could limit successful commercial deployment, describes developer initiatives to address those challenges, and includes estimated timelines to reach commercial deployment.



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