



Photovoltaic ESS cost breakdown in Canada 2025

What rebates are available for solar panels in Canada?

Offers up to \$5,000 in rebates for solar panel installation. Available to homeowners across Canada. Zero-interest loan up to \$40,000 for energy-efficient upgrades, including solar panels. Must be repaid over 10 years. Net metering available, but no direct rebates. Solar incentives for First Nations communities, plus net metering.

How much does an ESS system cost?

Increased competition in the commercial ESS space Government incentives (e.g., tax credits in the U.S. and Europe) make systems more affordable. For example, in 2022, a 100 kWh system could cost \$45,000. By 2025, similar systems could sell for less than \$30,000, depending on configuration.

What are the cost forecasts used in IESO's 2022 P2D study?

The cost forecasts used in this module are updated from the values that were used in the IESO's 2022 P2D study and are based on the 2023 NREL ATB report. NREL provides capital cost projections for wind generation and both utility-scale and distribution-scale installations of solar and storage.

How do IESO forecast the cost of new renewable resources?

The IESO currently bases most of its forecasts for the cost of new renewable resources on the US National Renewable Energy Laboratory's (NREL) Annual Technology Baseline (ATB) report¹. The ATB is an annual survey of resource cost projections that is a common reference point for both industry and academic studies.

What solar rebates are available for First Nations communities?

Solar incentives for First Nations communities, plus net metering. Varies by municipality, but up to \$5,000 in rebates available in some areas. Up to \$7,000 in solar grants under the Réno climat program. SolarHomes program offers up to \$3,000 in rebates. Up to \$5,000 in solar rebates for residential systems.



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