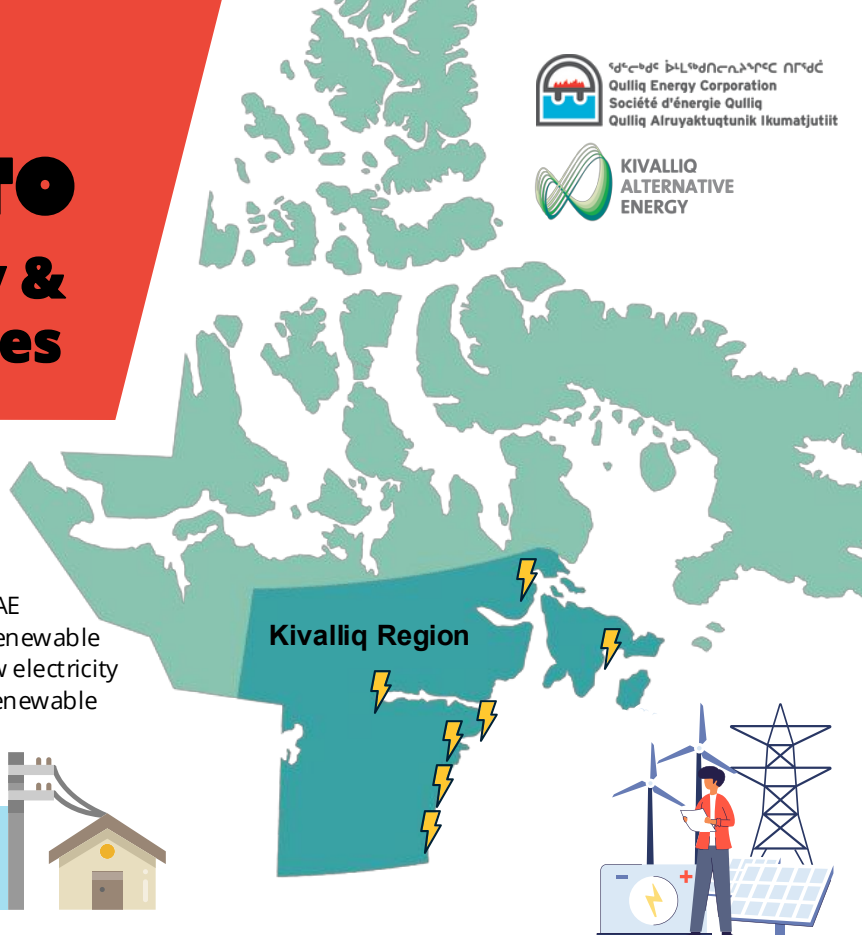




Renewable Energy & QEC Customer Rates

Kivalliq Alternative Energy (KAE) and Quilliq Energy Corporation (QEC) are working together to bring renewable energy to the Kivalliq Region. QEC is committed to providing safe, reliable, and affordable electricity to all Nunavummiut, and KAE supports this commitment. As we transition to renewable energy sources, it's important to understand how electricity rates are determined and what the addition of renewable energy means for you, the customer.

HOW are electricity rates determined?



QEC's electricity rates are influenced by two main factors:



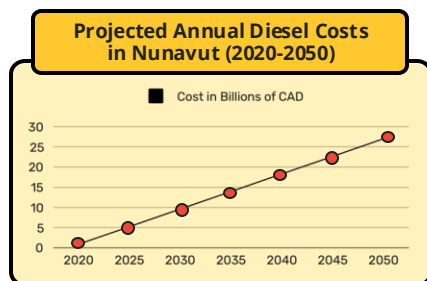
- 1 Fixed Costs:** Costs associated with QEC's infrastructure, capital investments, and ongoing operations.
- 2 Variable Costs:** Primarily determined by the price of diesel fuel, which can fluctuate significantly.

As of October 2022, QEC shifted to a territory-wide rate design to ensure equitable electricity rates for its customers.

The **TRUE** cost of diesel



Even with subsidies, Nunavut's reliance on diesel is expensive, costing nearly \$1 billion annually. By 2050, that cost could reach \$27 billion. This means less funds available for other community essentials.²



RENEWABLES

& rate impacts

Renewable energy projects by Independent Power Producers (IPP) are designed to be **cost-neutral** and will not increase electricity rates for QEC customers.¹

Renewable Energy Benefits:

- Reduces fuel use and reliance on diesel
- Stabilizes variable costs of electricity rates
- Lessens generator wear, cuts maintenance
- Local energy sources foster economic growth

FAQS



Q: Will renewable projects increase my electricity bill?

A: No, these projects are designed to be cost-neutral, meaning they do not increase your electricity rates.

Q: Can renewable energy lower my electricity bill?

A: While immediate reductions in rates aren't projected, renewable energy will stabilize and potentially reduce rates over time by lessening reliance on external diesel prices.

Sources:

(1) Oulliq Energy Corporation. (2023). [Independent Power Producer Policy](#), 9.01.

(2) Ricchetti et al. (2023). The True Cost of Diesel in Remote Communities of Nunavut. University of Calgary.

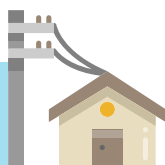
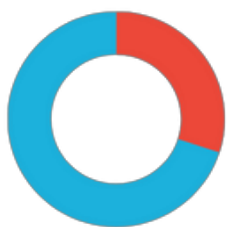
Learn more about renewable energy initiatives in Kivalliq:

Qullig Energy Corporation: www.qec.nu.ca

Kivalliq Alternative Energy: www.kivalliqalternativeenergy.com



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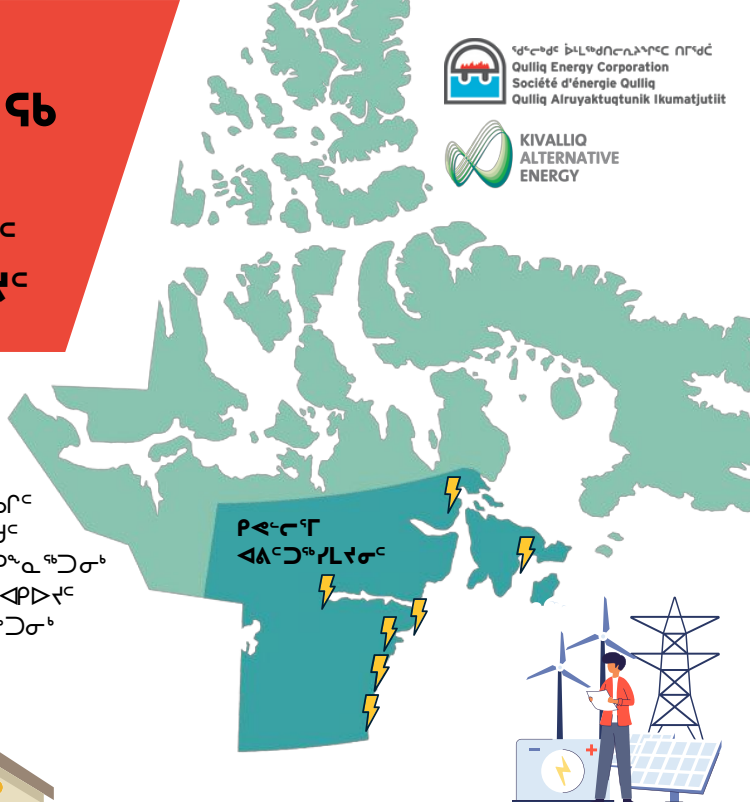
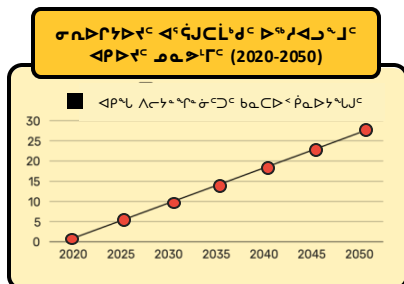
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(2) Ricchetti et al. (2023). $\Delta p_{cc} \propto C^{\frac{1}{2}} V_D^{\frac{1}{2}} / \Delta z \propto D^{\frac{1}{2}} V_D^{\frac{1}{2}} / \delta t \propto D^{\frac{1}{2}} \sigma_c$. $m_{cc} \propto \sigma_c$, $m_{\text{gl}} \propto r_c \propto D^{\frac{1}{2}} V_D^{\frac{1}{2}} \Delta t^{\frac{1}{2}} \propto P \Delta^{-\frac{1}{2}} J_n$.

$\Delta r^C \cap b^a \cdot \sigma n^C$

$\Delta \Gamma^0 \approx \frac{1}{2} \Delta \Gamma^1$

^cd^c-^bd^c: www.gec.ny.ca

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www.kivalliqalternativeenergy.com