SKYLINE

CASE STUDY

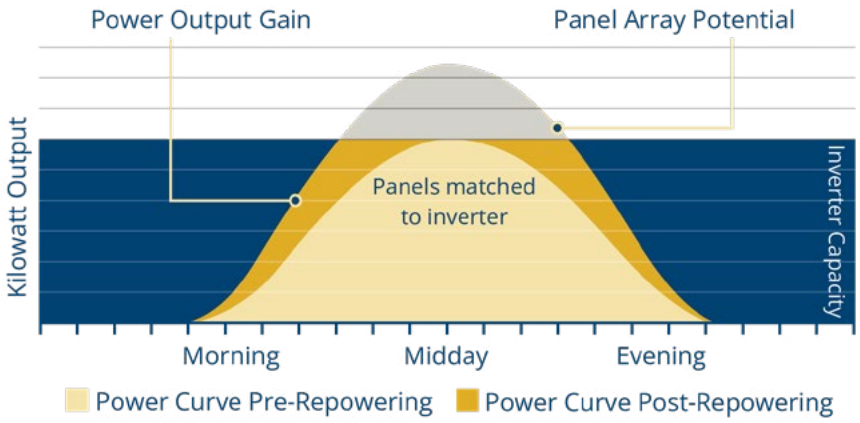
Repowering Solar Success: Falconer

Skyline Clean Energy Fund is undertaking a **$68MM re-investment project** to repower select solar assets in its portfolio. This is both to increase value for investors and position the Fund to meet the projected increased demand for renewable energy in the future.

Falconer is a small-scale rooftop solar project located in **Teeswater, ON**, and was one of the first successful repowered solar assets owned by the Fund.

What is repowering?

Repowering solar assets refers to upgrading and replacing existing equipment to maximize electricity generated for sale, thereby increasing revenue and potential value for investors.



The focus of the repowering project is to maximize the amount of direct current (DC) electricity that is generated and turned into alternating current (AC) electricity, which the Fund sells under the government contracts in place. This is accomplished by replacing and upgrading equipment on the assets to ensure that the amount of DC electricity and, consequently, revenue generated is maximized throughout the day. Skyline Energy, the asset manager for the Fund, established criteria to determine which solar projects in the portfolio were ideal candidates for repowering.

Falconer

By the numbers

Repowering status

Completed June 2025

Contract details

Type: Government-backed Ontario Feed-in-Tariff (FIT 1)

Fixed rate: $0.713/kWh

Time remaining: Expires 2032, with a potential lease extension option

Capacity

	Pre-repowering	Post-repowering	Increase
Current size	100 kW AC / **128 kW DC**	100 kW AC / **175 kW DC**	37%
Overbuild	29%	75%	46%
Projected annual earnings	$87,000	$146,000	69%

Investment snapshot

Estimated Internal Rate of Return (IRR): 15.32% | **Estimated value created:** $79,422*

Project considerations

As with all of the solar projects targeted by the asset manager for the repowering initiative, Falconer is backed by an IESO Feed-in-Tariff 1 (FIT 1) contract, which purchases the alternating current (AC) electricity generated by the asset. Under the contract, Skyline Clean Energy Fund is not allowed to increase the system footprint outside the engineering design that was approved when the system was initially constructed. For rooftop assets, this means repowering is limited to the amount of open space available on the rooftop. As such, the Falconer expansion can only be accomplished by swapping older solar panels and inverters (the equipment that turns the direct current (DC) electricity generated by the panels into AC electricity) for newer, more efficient equipment that will not exceed the rooftop space but would increase the DC-electricity-generating capacity of the system.

Project plan

The asset manager subcontracted an experienced clean energy solutions and installation company based out of Walkerton, ON, to develop a repowering plan that would maximize Skyline Clean Energy Fund's return on investment. Working together, the final proposed repowering plan for Falconer included:

- Replacing the current 190-watt (W) panels with new 605W panels
- Replacing the 16 current PVI 5000 and 2 current PVI 6000 inverters with 7 new Fronius Primo 15.0-1 inverters

The subcontractor also worked diligently with the asset manager to mitigate any risks around the in-place contract and cash flow for the generated electricity.

Specifically, the contractor supported the asset manager in preparing and submitting a connection impact assessment to the IESO, even though expanding the DC-generating capacity of the solar panels is allowable under the FIT 1 contract and is **protected by legal precedent**. As a result, Skyline Clean Energy Fund maintained approval of Falconer's authorization to generate with the local utility, with no interruptions.

Additionally, the contractor worked with the asset manager to prepare all required materials to receive an updated connection authorization and certificate of inspection from the Electrical Safety Authority (ESA) before construction began, thus further ensuring the success and profitability of the repowering.

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*As at June 4, 2025. Value created is the net present value (NPV) of the project's incremental cash flows, net of the capital investment.

Falconer project results

Falconer was fully repowered and has been producing energy at the new system size as of June 4, 2025.

After the changes were implemented, the system maintained the same kW AC capacity (as required under the FIT 1 contract) but increased the system to 175 kW DC, a 37% increase. Projected earnings also increased, rising from $87,000 per year to $146,000 per year with the new panels and inverters installed, marking a $60,000 or approximately **69% increase in revenue per year**.

With regard to how this measures up in Skyline Clean Energy Fund, the projected IRR for the asset is 15.32% and the estimated value created is $79,000,* which represents the added value from the investment and has a direct impact on the unit value for investors, with all earnings from the assets being re-invested within the Fund.

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Power your portfolio with Skyline Clean Energy Fund today

Invest with Skyline and help repower solar assets for future value.

Scan/click now to speak to an expert about how **Skyline Clean Energy Fund** can strengthen your portfolio for the long term.

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