Solar PV Investment Decision Flow

STEP 1 Identify Your Energy Needs

Identify your ICP* number

Find out your current electricity usage and peak times
(Check your electricity bill or ask your provider)

Consider future energy needs (e.g. EV's, heat pump…)

Information:
*ICP-number: (Installation Control Point Number) is a unique, 15-digit number that identifies your specific electricity connection point to the local area power network. You can find your ICP-number on your power bill.

STEP 2 Understand Your Site Potential

Check your solar energy potential a in your location, along with the best panel orientation and tilt angle.

Check whether land or roof space is available, and determine the size of the area that can be used.

Check the roof pitch and structural stability of building.

Check if there is shading from trees or other buildings

Information:
As an initial indication of Global Tilt Irradiation in your area, please see: *Assessment of Solar Resources – Southland* by Great South at **greatsouth.nz/energy**

STEP 3 Technical, Regulatory, & Financial Feasibility

Engage with a technical advisor / installer to find out about grid connection feasibility

- https://www.mysolarquotes.co.nz/solar-quotes/
- www.powernet.co.nz/future-energy/generation-and-storage/get-connected/
- www.powernet.co.nz/future-energy/generation-and-storage/solar

Determine about export tariffs or net metering

- www.mysolarquotes.co.nz/about-solar-power/residential/solar-power-buy-back-rates-nz

Compliance with your local regulations

- www.mysolarquotes.co.nz/blog/new-zealand-solar-legislation/do-you-need-council-consent-for-solar-panels-in-new-zealand-let-s-clear-the-air

Calculate your upfront cost vs. your long-term savings

Determine your payback period and operational savings

- www.mysolarquotes.co.nz/solar-calculator
- www.pricemysolar.co.nz
- www.rewiring.nz/calculator
- www.calculate.rewiring.nz
- www.rewiring.nz/electrification-guides/solar

Check your available financing choices (no interests or low interest loans etc.)

- www.anz.co.nz/agribusiness/agri-finance/good-energy
- www.asb.co.nz/business-banking/asb-smart-solar-loan.html
- www.bnz.co.nz/business-banking/loans-and-finance/green-business-loans
- www.kiwibank.co.nz/personal-banking/home-loans/getting-a-home-loan/sustainable-energy-loan
- www.westpac.co.nz/agribusiness/sustainable-farm-loan

Seek quotes for solar investment (Request quotes from multiple suppliers)

STEP 4 Other Factors

Consider brand reputation benefits for your business / your farm

Are the emissions reduction targets (if any) of the business, sector, and region in alignment? For example: Are you supplying to an exporter?

Optional Further Information:
Emission reduction potential: (Amount of energy you plan to cover by solar in kWh) x emission factor (0.11 kgCO2e)/kWh) = emission reduction potential in kgCO2e

STEP 5 Decision Point

Proceed with detailed design and procurement or

Revisit assumptions and reassess

Residential Solar Checklist

- www.eeca.govt.nz/assets/EECA-Resources/Product-regulations/Residential-Solar-Checklist.pdf
- www.eeca.govt.nz/regulations/voluntary-guidance/best-practice-guidance-documents/best-practice-guidance-for-residential-solar-pv-and-battery-storage-systems
- www.eeca.govt.nz/insights/eeca-insights/commercial-scale-solar-in-new-zealand