



Nga Tai E Rua Paa

COMMUNITY ENERGY HUB CASE STUDY

*Harnessing renewal energy to strengthen paa resilience, support whaanau, and
create long-term community benefit*

Te Mana o te Raa – From Paa to Community Energy Hub

01 THE PAST

- Rising electricity costs
- Reliance on the national grid
- Greater emergency-response expectations
- Pressure on limited operating budgets

02 THE PRESENT

Investment in a solar and battery system that provides:

- Greater energy independence and resilience
- Long-term savings and support for local households
- Kaitiakitanga in action

03 THE FUTURE

A Community Energy Hub that:

- Generates and stores renewable energy
- Supports local households
- Strengthens emergency preparedness
- Reduces exposure to price increases
- Long-term financial value shared locally

KEY OUTCOME

Ngaa Tai E Rua Paa is transforming from an energy consumer into a resilient, community-focused energy hub.



BEFORE INSTALLATION • Site without solar panels



AFTER INSTALLATION • Site with solar panels

Financial and Community Benefits

FINANCIAL VALUE

-  **\$150,000** — forecast benefit over 10 years
-  **\$1,250** — monthly community benefit
-  **\$4,357** — annual fixed energy-rate savings
-  **\$134,000** — solar and battery asset value

COMMUNITY IMPACT

-  **5 local homes** — potentially supported through the community energy model
-  **64 kWh** battery storage — strengthens energy security and resilience
-  **54.04 kW** solar generation — renewable energy produced on-site

KEY OUTCOME A high-value energy asset that delivers lasting savings, community support, and greater resilience for Ngaa Tai E Rua Paa.



Values in Action



MANA MOTUHAKE

Reducing reliance on external energy providers
Strengthening self-determination and energy independence



KAITIAKITANGA

Using renewable energy to reduce environmental impact
Protecting resources for future generations



MANAAKITANGA

Ensuring the paa can support whaanau and the wider community during times of need



WHANAUNGATANGA

Sharing energy benefits beyond the paa
Keeping value within the local community

KEY OUTCOME The community energy model brings core Maaori values to life through greater independence, environmental guardianship, collective care, and locally shared benefits.



Acknowledgements and closing vision

WITH GRATITUDE Ngaa Tai E Rua Paa Trustees acknowledge the organisations, partners, supporters, and community members whose investment and commitment made this project possible.

FUNDING PARTNERS



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Foundation
North



PROJECT PARTNERS SUPA Energy • Project contractors and installers • Community supporters

OUR VISION

Through solar and battery technology, Ngaa Tai E Rua Paa is extending its tradition of manaakitanga and kaitiakitanga—creating lasting benefits for whaanau, strengthening community resilience, and leading toward a sustainable, self-reliant future.

