



# Nauru battery management systems

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Embracing diversity of identity, thought, background and experience helps us develop imaginative and responsive solutions for our clients that create lasting community benefit.

The City of Toronto is continuing to implement Renewable Natural Gas (RNG) projects to support the City's 2030 targets identified in its Net-Zero strategy. Outlined in this strategy is the goal to reduce approximately 107,700 tonnes of carbon dioxide (CO<sub>2</sub>e) per year.

To support our vision of making water, energy and communities sustainable for generations to come, this is how we're helping you stay ahead in a changing world.

With communities facing compounding pressures - change, complexity, uncertainty - charting a course to an equitable future has never been more challenging. At this critical juncture, how do we promote fair and fit-for-purpose infrastructure, from one generation to the next?

We're dedicated to creating positive impacts through innovative projects that span the globe. Embrace exciting challenges, unlock your potential, and grow your career in an inspiring and supportive environment.

With a surface area of just 21km<sup>2</sup>, and a population of around 13,000 people, Nauru is the world's smallest island nation. Currently, Nauru relies on imported diesel fuel for energy, which is costly, vulnerable to market changes, and has significant environmental impacts.

GHD is supporting the Asian Development Bank (ADB) and the Government of Nauru to reduce the country's reliance on diesel, by sourcing nearly 50 percent of the country's energy from renewable sources.

Together, GHD teams New Zealand, the Philippines, Australia, and the UK, with support from local team members in Nauru, have prepared a Solar Expansion Plan and Feasibility Study for a grid-connected solar power plant and a battery energy storage system.

The plant will also enable local people to develop the technical skills necessary to operate and maintain the planned facilities independently, without the need for support from foreign staff or companies.

"Solar will help provide energy security, vital to Nauru's social and economic development. It also puts the "power" back in the hands of the local community, empowering local people, including women and vulnerable groups, to run and manage the plant's day-to-day operations."

A 6 MW solar plant and 5 MW/2.5 MWh storage system are set to increase the share of renewable electricity on the Pacific island of Nauru from 3% to 47%. The \$27 million project is being supported by the Asian



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Development Bank (ADB).

However, the government has decided raise the share of renewables in the power mix of the 21km<sup>2</sup> nation from 3% to 47% with a large-scale solar-plus-storage project.

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