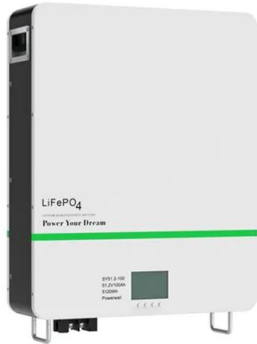


# New Zealand batteries and secure energy transitions





## New Zealand batteries and secure energy transitions



### Batteries and Secure Energy Transitions

In this new report, we provide an in-depth examination of a technology that is a linchpin in delivering clean energy transitions and protecting energy security. Batteries will be critical to achieving the energy goals agreed by nearly 200 countries at the COP28 climate change

### Future security and resilience

Energy storage systems like batteries (including in electric vehicles), and controllable demand (like electric vehicle chargers), can be harnessed to provide the services to the power system ...



### Advancing New Zealand's energy transition

o When and how should we transition from fossil gas to help meet New Zealand's emissions reductions objectives, while maintaining security of supply and the energy ...

### IEA Batteries and Secure Energy Transitions - World Energy Transition

In the NZE Scenario, about 60 per cent of the CO2 emissions reductions in 2030 in the energy



sector are associated with batteries, making them a critical element. Batteries in EVs and storage installations reduce the need for imported fossil fuels, increasing self-sufficiency in many countries.



### Executive summary - Batteries and Secure Energy Transitions - ...

Batteries are key to the transition away from fossil fuels and accelerate the pace of energy efficiency through electrification and greater use of renewables in power. In transport, a growing fleet of EVs on the road displaces the need for 8 million barrels of oil per day by 2030 in the Net Zero Emissions by 2050 (NZE) Scenario, more than the

### Batteries and Secure Energy Transitions - Analysis

The IEA's Special Report on Batteries and Secure Energy Transitions highlights the key role batteries will play in fulfilling the recent 2030 commitments made by nearly 200 countries at COP28 to put the global ...



### Opportunities and challenges to the future security and resilience ...

As New Zealand transitions to 100 per cent renewables it is critical that these requirements can still be met with a changing generation mix and an increase in demand. Clearly, these ...



### Future security and resilience

Energy storage systems like batteries (including in electric vehicles), and controllable demand (like electric vehicle chargers), can be harnessed to provide the services to the power system that have traditionally been delivered by just a



### Unlocking the potential for batteries to contribute to security of

Grid-scale batteries maximise the benefits of renewable energy and provide extra resilience during times of tight electricity supply. Additionally, these batteries, alongside more renewable generation, will help off-set the retirement of thermal generation and support New Zealand's transition to a low-emissions economy.

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## Advancing New Zealand's energy transition

o When and how should we transition from fossil gas to help meet New Zealand's emissions reductions objectives, while maintaining security of supply and the energy system? o What is the role for alternative renewable gases like biomethane and hydrogen?

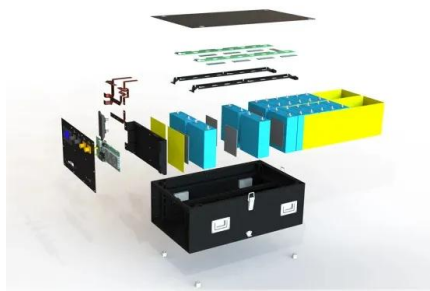


## New Zealand Energy Strategy

The Government is developing the New Zealand Energy Strategy to support the transition to a low emissions economy, address strategic challenges in the energy sector, and signal pathways away from fossil fuels.

## Opportunities and challenges to the future security and resilience ...

As New Zealand transitions to 100 per cent renewables it is critical that these requirements can still be met with a changing generation mix and an increase in demand. Clearly, these changes will impact generation, transmission, distribution and consumption of energy in



## Batteries and Secure Energy Transitions - Analysis

The IEA's Special Report on Batteries and Secure Energy Transitions highlights the key role batteries will play in fulfilling the recent 2030 commitments made by nearly 200 countries at COP28 to put the global energy system on the path to net zero emissions. These include tripling global renewable energy capacity, doubling the pace of energy



## IEA Batteries and Secure Energy Transitions - World Energy ...

In the NZE Scenario, about 60 per cent of the CO2 emissions reductions in 2030 in the energy sector are associated with batteries, making them a critical element. Batteries in ...



## Energy strategies for New Zealand , Ministry of Business, ...

The government's energy strategies set the policy direction and priorities for the New Zealand energy sector and focus on transitioning to a net zero carbon emissions by 2050, while building a more productive, sustainable and inclusive economy.

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