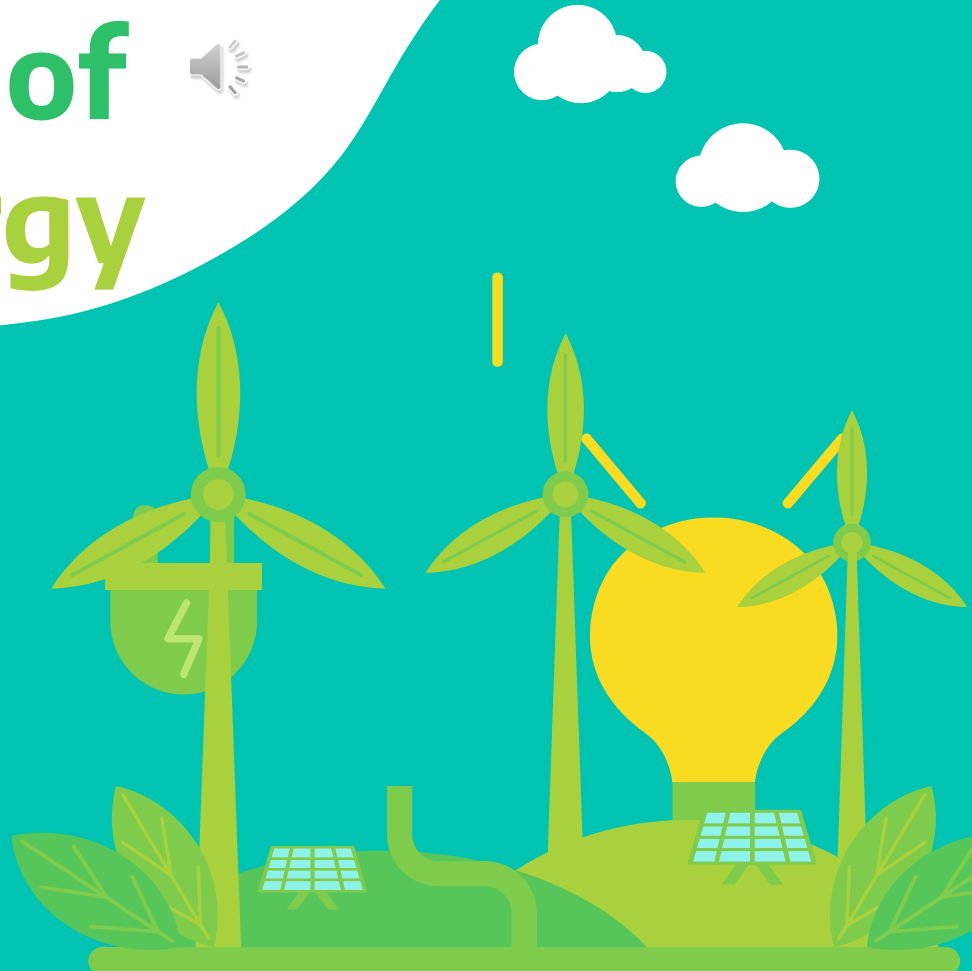


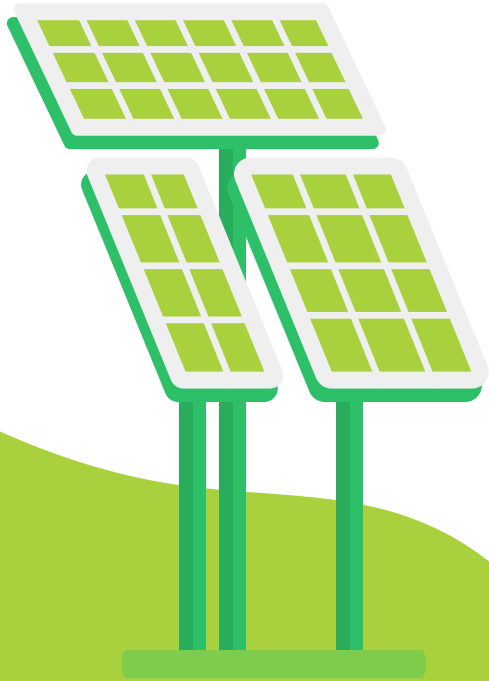
A Case Study of Moment Energy





01

Introduction



Introduction



Overview

A Canadian-owned and operated green energy company founded in 2019.



Company Goal

To provide reliable and environmentally friendly battery energy storage system for customers.

02

Initiatives

to help achieve the city's net zero future





Repurposing end-of-life EV batteries to provide clean, affordable, and reliable battery energy storage systems (BESS)



BESS: rechargeable batteries that can store energy from different sources and discharge it when needed

Why Retired EV Batteries?



Large Potential

- 80% original capacity left when retired from the car
- Can deliver an additional 7-10 years of service



Large Source


- Millions of EVs will be retired in the next few years
- Many end-of-life lithium batteries can be used



03

Projects

God's Pocket Scuba Diving Resort



Installation

In 2023, Moment Energy installed the Flora system at the off-grid God's Pocket Resort near Port Hardy, British Columbia.



After Installation...

96 kWh

Total Charging Capacity
of Flora System

75%

Diesel Generator Runtime
Reduced

04

Evaluation



Strengths of BESS



No Geographical Limitation

Other storage technologies can only be installed in a few places



Reduce Energy Costs

Allows businesses to avoid higher tariff charges, reduce operational costs



Reduce Grid Dependency

Guarantee a continuous energy supply even under extreme weather



Improve Power Quality

Smooth out voltage fluctuations



Reduce Carbon Emissions

Contribute to a net zero future

Limitations of BESS



Higher Upfront Costs

Comparing to other energy storage solutions



Integrate with Existing Grid Infrastructure



Maintenance and Monitoring

To maintain its safety



Lower Reliability

When compared to traditional power generation sources

Possible Solutions

01

Research and Development

Overcome technical
challenges

02

Common standards and Protocols

Facilitate data exchange
between different devices



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Thanks!

Do you have any questions?



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