



# ENERGY PLUG

Decentralized Energy Technologies

Q4.2024



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- Global Power outages market **\$473 billion** An.
- Global Energy Management market **\$112 billion** An.

## 2030

- **\$4.1 trillion** for maintaining existing electricity grids
- **\$17.3 trillion** for expanding grids to meet demand
- **\$3.1 trillion** needed for grid infrastructure upgrades

<https://about.bnef.com/blog/global-net-zero-will-require-21-trillion-investment-in-power-grids/>  
<https://www.fortunebusinessinsights.com/industry-reports/energy-management-system-market-101167>

# Power Outages

*Affecting sectors such as manufacturing, services, transportation, IT services, agriculture, & mining*





# Market Gap

Commercial & Industrial Market  
20 kWh - 500 kWh



Residential 5- 13.5 kWh



Grid Scale - 5 MWh +



Pad & Pole Mounted Battery Systems





# Market Solution

Powering Homes, Businesses, and Utility-Scale Applications

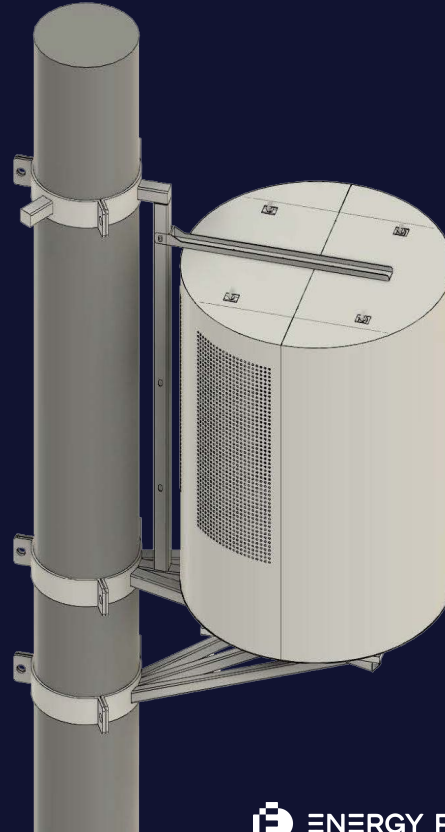


## 20 kWh Energy Pack

*Reimagined power solution*

### Interoperable Design

Standardized air cooled components across products simplifies inventories, maintenance, and increases uptime.



## 20 kWh Energy Pole

*Re-thinking energy infrastructure*

### Modular

Common battery modules, inverters and EMS allow for easy expansion and broader system coordination from residential to utility-scale networks.

### Certifications

- UL 1973 - Safety standard for battery energy storage systems
- UL 60730 - Standard for Automatic Electrical Control
- UL 916 - Standard for Energy Management Equipment
- UL 62619 - Standard for lithium-ion batteries.
- UL 9540 Pending - Standard for Energy Storage Systems

Proudly Canadian





# 20 kWh Energy Pack

*A reimagined simple power solution*

## Features

**20 kWh Capacity:** Ideal for plug and play backup power, peak shaving, improved power quality, and energy arbitrage.

**Integrated PCS:** Built-in bi-directional inverter for seamless grid and renewable energy management.

**Automatic Backup:** Ensures uninterrupted power during outages, and generator downtime, perfect for critical loads.

**Solar-Ready:** Easily integrates with solar PV systems for enhanced energy independence and reduced charging costs.

**Remote Monitoring:** Customizable EMS for real-time control and optimization via dashboard.

**Durable:** Robust, weather-resistant design for reliable outdoor use.

Proudly Canadian





# 20 kWh Energy Pole

Energy Plug *Re-thinks* storage and infrastructure with batteries

## Features

**Arbitrage:** Utilities can proactively balance their power supply and demand curves.

**Load-Leveling & Peak-Shaving:** Smooths out energy usage, reducing strain on the grid and cutting peak energy costs.

**Grid Stability:** Responding to grid fluctuations improves power quality and reduces outages by absorbing demand spikes.

**Durable:** IP 65, -40 to +55 degrees Celsius

**Efficient:** Reduces infrastructure costs to improve power quality for Rural & Remote communities



<b>Battery Type</b>	<b>LiFePO4</b> – Long-lasting, safe, and environmentally friendly.
<b>Cycles</b>	<b>6,000 - 8,000 cycles</b> – Supports daily charge and discharge, providing reliable performance for 16 to 22 years under normal conditions (at 90% Depth of Discharge).
<b>Output Power</b>	<b>10 kWh continuous</b> – Supports critical systems and steady energy supply.
<b>Output Voltage</b>	<b>240VAC</b> – Suitable for distribution and commercial applications.
<b>Size</b>	<b>1205mm (h) x 900mm (d)</b> – Similar in size to a typical pole-mounted transformer, offering compact, space-efficient installation.
<b>Weight</b>	<b>240 kg</b> – About one-third the weight of a typical pole-mounted transformer, allowing easier installation with standard equipment.

Proudly Canadian







# Blue Ocean - Decentralized Utility Energy as a Service Business Model

## EaaS Model Highlights:

### 1. Subscription Fees:

Affordable access without upfront costs.

### 2. Energy Savings Sharing:

Revenue via efficiency gains and blackout prevention.

### 3. Peak Shaving/Demand Response:

Supporting grid stability with cost-sharing incentives.

- **Lower Energy Costs:** Peak shaving, demand response, and energy efficiency reduce utility bills and earn incentives.
- **Blackout Savings Sharing:** Avoid costly downtime with shared savings on blackout prevention.
- **No Upfront Costs:** Subscription-based access eliminates capital expenses while delivering long-term savings.





# Blue Ocean - Decentralized Nodes Cryptocurrency Business Model

## Decentralized Energy Nodes

Peer-to-peer energy trading, reducing reliance on centralized grids and enhancing resilience.

**Real-Time Trading:** Enables secure energy transactions, creating revenue streams by monetizing surplus energy and managing fluctuating needs.

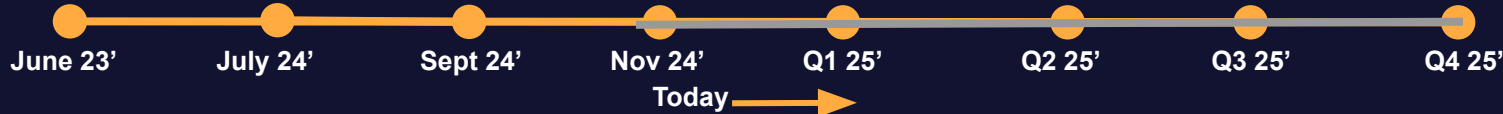
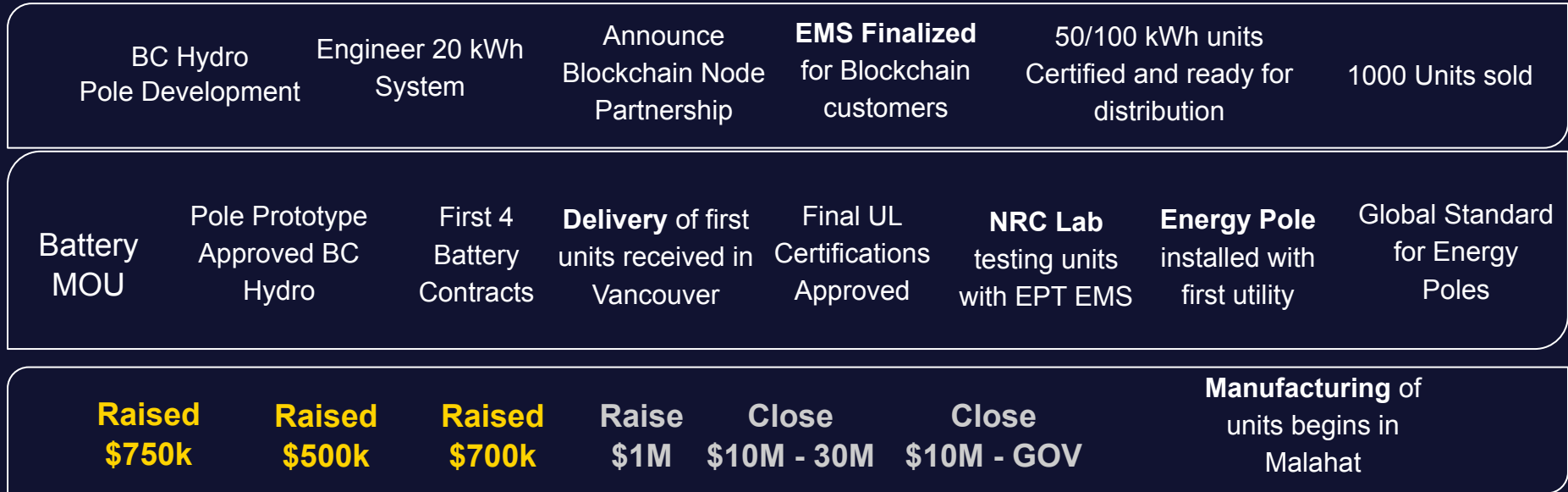
**Enhanced Connectivity:** Supports base stations, satellites, AI, and blockchain nodes, ensuring reliable energy for critical infrastructure.





# Milestones & Road Map

Where we've been and where we're going



CSE: PLUG OTCQB: PLGGF FSE: 6GQ

# Partnership Matrix



## Energy Management



*Scaling energy savings business model  
w/ agnostic EMS Battery & DER integrations*

## Battery Solutions



*Pairing long duration and LFP chemistry  
together to provide a robust global market solution*



*Indigenous Power Opportunities, Data Centres, & PPP*



*Adding long duration storage to EPT manufacturing plans  
Group synergies to fast track strategic market SKD assembly*

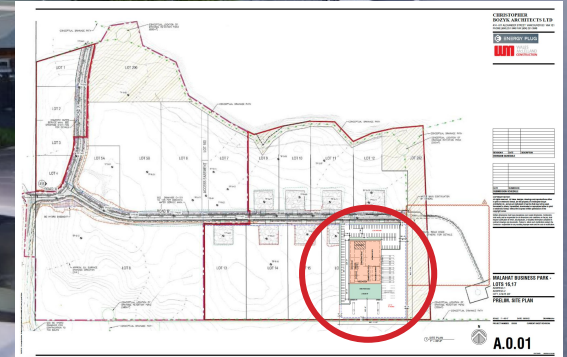
## Energy Programs

## Manufacturing

# Indigenous Manufacturing Partnership

Clean Energy and Grid Stability

Targeting 1 GWh of annual production - Q4 2025

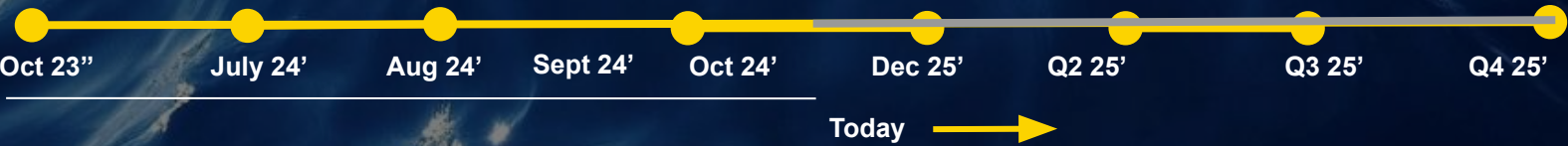




# Milestones

Our Path to Innovation and Growth

<b>Grid Scale 5 MWh</b>	MOU Seetel	Sales Pipeline \$700M+	Grid Scale Planning	Commercial Contracts Cells & Offtake Partners	Manufacturing of 5 MWh unit begins			
<b>Commercial 20 kWh</b>	Design of prototype model finalized	Delivery of first units received in Vancouver	EMS Finalized for Commercial customers	Manufacturing of commercial units begins in Malahat				
<b>Utility 20 kWh</b>	BC Hydro Product Developed	Design of prototype model finalized	NRC Lab testing units with EMS	Canada NRC-CNRC	Manufacturing of the 20 kWh units begins in Malahat			
<b>BC Hydro</b>	MOU Siemens Canada	<b>SIEMENS</b>	<b>FNFA</b>	First Product Installations	Energy Pole First utility			
<b>Partnership Malahat Nation &amp; EPT</b>	GP/LP Established Malahat Nation & EPT	Ground Blessing Construction begins	FNFA \$24M Loan Approval	Financing Strategic Partners Join	Long Lead Capital Expenditures	Construction Building Shell Completed	Manufacturing Initial Production line build out	Production Training, First Production runs





# Ground Breaking Ceremony

Gigafactory Ground Blessing - August 28, 2024



As featured in...

**Global NEWS**

**ELECTRIC AUTONOMY**  
CANADA

**VANCOUVER SUN**

**NationTalk**

**pv magazine**

**TIMES**

**COLONIST**

**Energy Storage NEWS**

**THE GLOBE AND MAIL**





# Customer Pipeline

Early Product Traction While we Prepare for Mass Production

## \$206M

## Total Sales Pipeline

@ October 31, 2024

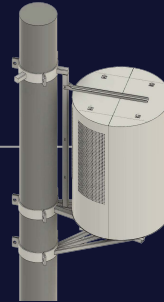
**Small Scale**  
**20 kWh - 100 kWh**

\$4.08M



**Utility Scale**  
**20 kWh - 100 kWh**

\$1.59M



**Grid Scale**  
**1 MWh +**

\$200.2M





# IP, Supply Chain & Partnerships

*Leading the Charge in BESS Manufacturing and System Integration*

## INTELLECTUAL PROPERTY

- Exclusive License Energy Pack
- Exclusive License Energy Pole
- Exclusive License Data Centres
- Exclusive license of Energy Management Syst.
- Exclusive license of Power Management Syst.

## SUPPLY CHAIN

- Enwind Power — Design and engineering partner in Taiwan
- Co-developed battery standard, UL 1974
  - Certified technology now in use globally
  - Data Centre compliant batteries
  - Reliable on-time manufacturing
  - Trusted by global brands
  - Enwind Power and Energy Plug untied in IP partnership
  - Manufacturing until Canadian factory opens



## PARTNERSHIPS

- Malahat Nation, world's first indigenous-led battery Gigafactory
- Siemens Canada - Technology Partner
- Johnson Controls - System Integration Partner
- BC Hydro - Joint developer Energy Pole for utilities
- Hydro One - Approved Battery Vendor
- Enwind Power - Global leader in UL Batteries
- Ximen Mining 20 kWh Battery Generator program for, reducing GHGs, operational costs and black-out resiliency
- Power Touch Data Centres, utilization of excess power in Energy Plug Batteries for ASUS AI global server network
- Elastic Energy - Battery Pack Partnership for 10 kWh Residential Batteries



# Leadership Team

Manufacturing, Batteries, Energy



**Broderick Gunning**

*Chief Executive Officer  
Board*

A seasoned leader in fintech and energy sectors, with expertise in fintech, EV infrastructure, and finance. Experienced in large-scale projects across North America and Asia, focusing on trust and growth.



**Ramtin Rasoulinezhad**

*Chief Technology  
Officer*

A seasoned executive in the energy sector, specializing in clean technologies, renewable energy, and energy storage. He excels in leading technology projects, decarbonization initiatives, and building high-performing teams.



**Chris Barnes**

*VP Ops*

Over 15 years of experience in renewable energy and technology, Chris has led large-scale operations and innovative wind and solar projects totalling nearly 400MW ac.



**Jonathon Redbird**

*Board - Indigenous  
Partnerships*

Over two decades of corporate and entrepreneurial experience, primarily working for First Nation Governments and Leaders of Corporate Canada



**Tony Kuo**

*Asia Partnerships*

A Taiwanese-born, North American-raised investment banker specializing in technology and energy sectors across Asia. Fluent in English, Mandarin, and Cantonese, focusing on Asia-Americas, in growth-stage ventures.



**Connie Hang** CPA, CGA

*Chief Financial Officer*

25 years of experience; senior officer and advisor for various private and public companies across diverse industries, including energy, mining, and technology.

FOXCONN

ASUS



TESLA



BC Hydro



# Board & Advisors

Batteries, Utilities, Energy, Entrepreneurs



**Benjamin Chen**

*Advisor - Product Quality & Safety*

Joined UL in 2000, served as Commercial Engineering Mgr for Energy Storage Systems & eMobility in Greater China, & co-developed the battery repurposing standard, now UL 1974.



**Roman Fontes**

*Advisor - Utilities*

Sr positions with AES, Motorola, & General Dynamics in Large-scale energy infrastructure. Former U.S. Department of Energy for independent power & transmission.



**Cec Primeau**

*Advisor - Finance*

Former Corvus Energy, Finance and entrepreneurial professional working with top Canadian companies in Battery Storage, Food Services & Clean Tech.



**Li Doyle**

*Board - Energy*

Executive roles in energy storage, renewable, energy trading, and energy transition sectors across the US and overseas.



**Adam Morand**

*Board - Manufacturing*

Serial entrepreneur and purpose-driven technologist with decades of experience in product development, eSports, financial systems and energy.



**Paul Dickson**

*Board - Crypto*

Executive management roles with public companies for 30 years, primarily in the technology sector specializing in SaaS platforms within the Crypto, VPN, Web3, Productivity and IoT space.



# Vision

*Building The world's largest decentralized utility network.*

Enhanced Connectivity  
Satellites, IOT, Infrastructure



Energy Trading & Tokenomics



Energy Plug Technologies ALL RIGHTS RESERVED

20 kWh  
Energy Pack

20 kWh  
Energy Pole

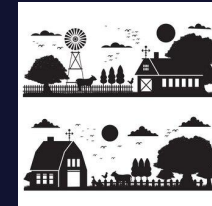


Advanced EMS w/  
Blockchain Node

Virtual-Power-Plant (VPP)



Diesel-fed Remote Community  
(Grid-connected & Islanded MG)



Transportation Electrification



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11.24

