

Business Overview

Naturanix Co., Ltd.



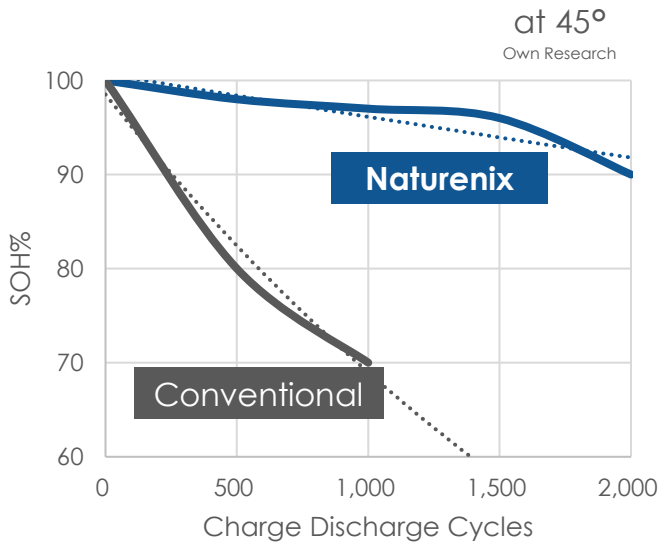
September/2024



Battery Performance: Even in the High-Temperature Climates (45°C)

Longevity: **10_{x+}**

Charging Speed: **20_x**



✓ Problem of e-motor cycle share business in Thailand market.



Bangkok, Thailand

1. Out side temperature

Out side temperature is very high all year round in ASEAN area. Usually, battery pack for e-motor cycle don't have a cooling system.

Life Cycle of conventional battery pack for e-motor cycle is less than **2 year**.

Therefore, battery waste is increasing in Thailand.

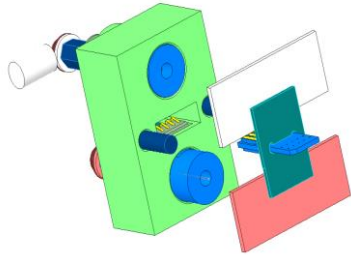
2. Long charging time

Charging time of conventional battery pack is about **2~3 hour**. Conventional battery swapping system require 3 batteries per bike.

Therefore, size of conventional battery swapping system become big size. Initial cost for conventional battery swapping system is high.

Product - Technology

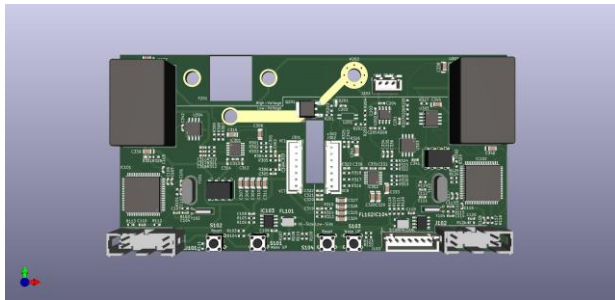
Examples of Long life and fast-charging tech: Complex batteries, diverse alliances



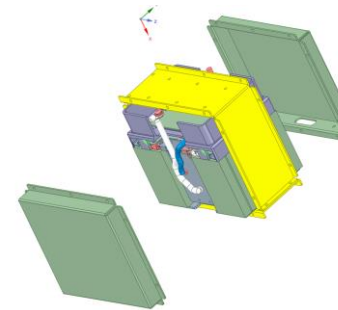
Low-resistance connector
(patent pending)



Low-resistance GaN semiconductor
relay (co-developed)



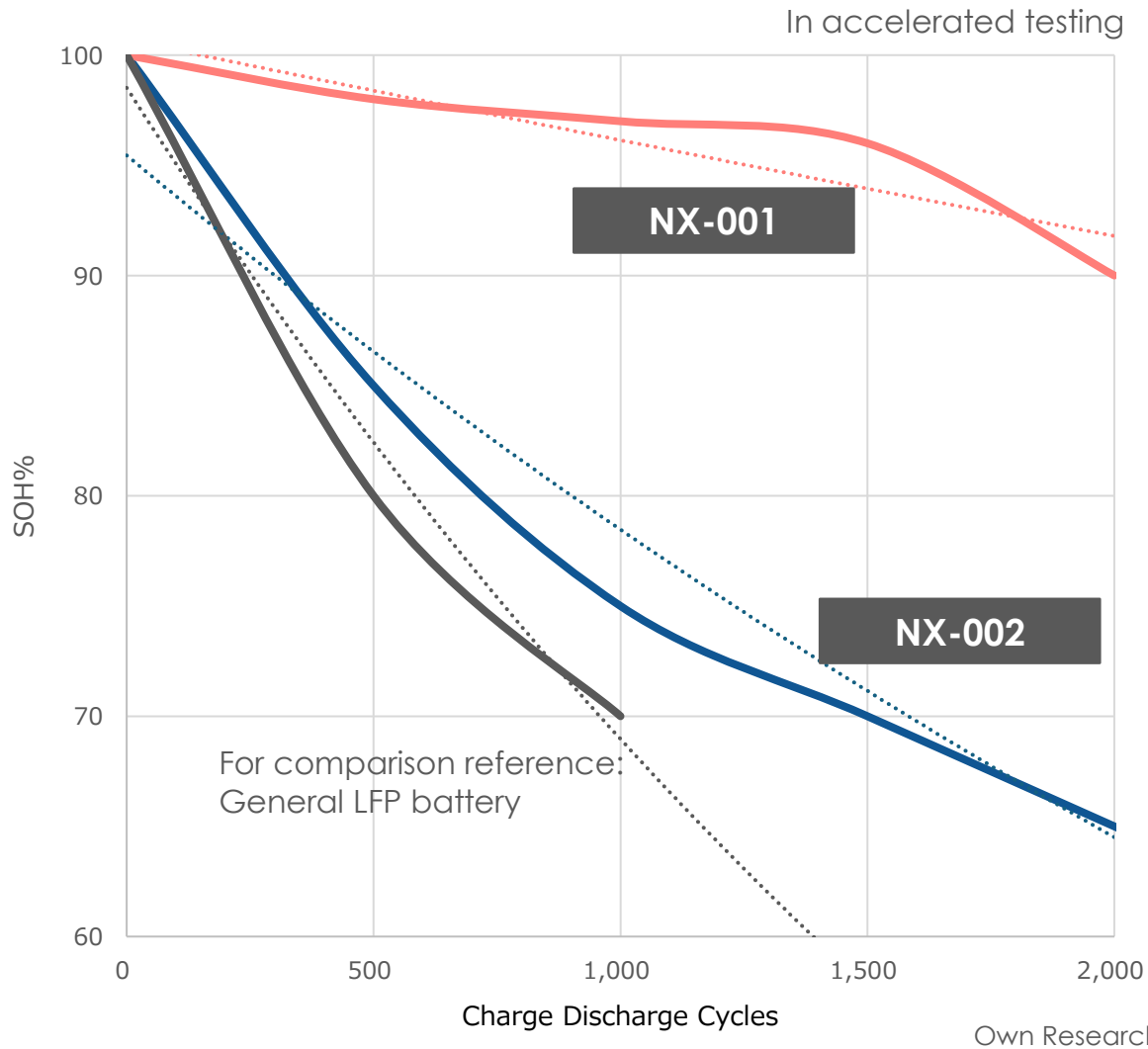
Low-resistance semiconductor BMS
(co-developed, patent pending)



Battery pack air-cooling technology
(patent pending)

Product - Technology

charge-discharge cycle testing (45°C. 1C/1C)

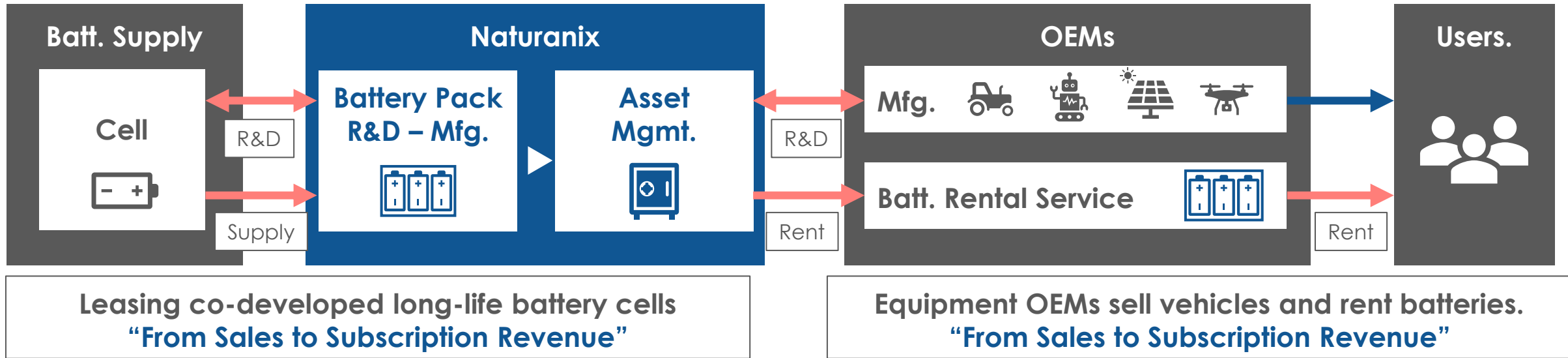


Batteries for diverse applications

	NX-001	NX-002
Life	10x+	1.5x
Heat Resistance	◎	○
Charge Speed	20x	4x
Safety	◎	◎
Cost	High	Slightly Higher

Comparing Common LFP Batteries

Use Case



Japanese Golf Carts

Replace lead-acid batteries with lithium.
 No initial investment; considering joint battery subscription.



AUS e-Motor Cycle OEM

Partnering with Southeast Asian entrants to rent costly batteries and shift from sales to support.



Thailand Rail electrification

Subscribing large train batteries with Japanese manufacturer, enabling CAPEX-free electrification in emerging markets.

Business Model – Cost Reduction

Traditional Gas. Costs
(Own Survey)

100%



Traditional Battery
Service

60%



Our Battery Service
(Include Energy Costs)

30%



Our Focus



EV



Others

Cooling Function

Yes

No

Tough Climates

Durable

Challenging

Warranty

150,000km
(300-500 Time)

Challenging

Key Market

First-World

Asia/Africa

Competitors

Red Ocean

Limited Solution

Applications



Go to Market

PoC with Toshiba in Tokyo
Achieved 20C



JV in BKK With Thai Parking Operator



Launched Own Battery Swapping Service in BKK for PoC, limit 100ea



Battery Pack Mass Production

Battery Leasing for MaaS/BaaS & OEMs



Expanding to ASEAN

Expanding to India / Africa

Achieving Revenue of 18 Bio JPY

2022

2024

2025

2026

2027

2028

2029

2030

■ Batteries in Operation (MWh)

1,000

500

0

Patented technology - Batteries realized through R&D

Longevity **Rapid Charge**

Invent the best combinations
= Joint patents

Batteries, Charger & Infrastructure

Open Innovation

Holds the most dynamic data on battery operations

Mfg.

Rent

Improve

Store
Analyze

By Battery Assetization

Low-cost battery integration into social infrastructure

Maximize Batteries in Operation

Data Storage & Engineering

Securing the asset value

Team

Expertise in supply chain, R&D, asset management, battery servitization, and IPO



Yusuke Kanazawa

Director, President & CEO

Founder: Engaged in battery research since university, with a focus on low-voltage, high-current electronics.



Hiroshi Yamaguchi

General Manger

Responsible for asset management, securitization, and microfinance in the finance business sector



Yuta Akakuma

Director & COO (Appointed)

Experienced in battery materials (separators) and BaaS/MaaS with NASDAQ listing. Southeast Asia Automotive market expert.



Koji Sato

Director & CTO (Appointed)

Former Representative Executive Officer and President of Hitachi Metals, Ph.D. from the University of California.



Kiyoshi Kanamura (Ph.D.)

Technical Advisor (Appointed)

Honorary Professor at Tokyo Metropolitan University, leading expert in lithium-ion battery research.



Kazuhiro Nishihara

Product Manager

Leverages experience in automotive engineering for mass production and vehicle integration.



Naturanix Co., Ltd.

Represents Yasuki Kanazawa

Established 25/May/2015

Capital 148,580,187JPY

Scope

- Li Ion Battery R&D
- Charging Infrastructure R&D
- Battery Pack Core Technologies R&D (BMS / Cooling / Connector / GaN Power Semiconductor)
- Battery / Mobility as a Service
- Battery Asset Management & Subscription
- Battery as an Infrastructure
- Battery Data Center and Data Engineering



Shimane
Data Warehouse & Engineering
(opening in 2025)

Tokyo
HQ - R&D
Asset Management



Bangkok
ASEAN Regional HQ

Samut Prakarn
Mass Production of Battery Packs (JV)
(opening in 2025)

Bangkok
BaaS/MaaS JV



Kuala Lumpur
Battery Lab / R&D
Software – IoT
(opening in 2025)

What we are looking for:

PoC Partner

Replace lead-acid batteries with lithium, or existing li-ion solution to subscription model.

Investor

Currently closing Series-A investment.
Aiming to be listed within 2030

Alliance Partner

Battery used application OEM, operator, MaaS / BaaS.
Finance or manufacturing, logistics.