



Results and Benefits

The benefits received by the Electricity Generating Authority of Thailand (EGAT) include:

1. Increased revenue to EGAT's subsidiaries: **263.73 million THB**
2. Dividends received by EGAT: **9.6 million THB**
3. License fees received by EGAT: **9.8 million THB**
4. Valuation of EGAT's Know-How: **82 million THB**
5. Support EGAT's policy as a driving force for achieving its strategic goals

The benefits to the nation include:

1. Response to government policy by supporting the development of infrastructure for electric vehicle and charging stations across the country
2. Development of Know-How in charger technology, with national ownership of the intellectual property
3. Promoting Carbon Neutrality
4. Reduction in imports and capital outflow
5. Domestic production by Thai workers, creating jobs and distributing income among the local population

Award

- **Excellence** Prize, EGAT Invention and Innovation contest 2024
- Label No. 5 2024



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DC charger

INTRODUCTION

The Thai-made DC Charger is built with durable European-standard components and comprehensive safety features. The software supports IEC 61851-1, 23, and OCPP communication, with an analytic platform for performance monitoring to ensure efficiency and reliability.

To address the growth of electric vehicles, support EGAT's expertise and strategic goals, align with the government's 30/30 policy, and seize business opportunities, we have developed this innovation.

Flexxfast by EDS

MADE IN THAILAND



Implementation and Usage

November 2024, we have installed 220 chargers nationwide, with power capacities of 60kW, 120kW, 150kW, and 180kW.

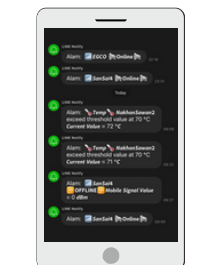
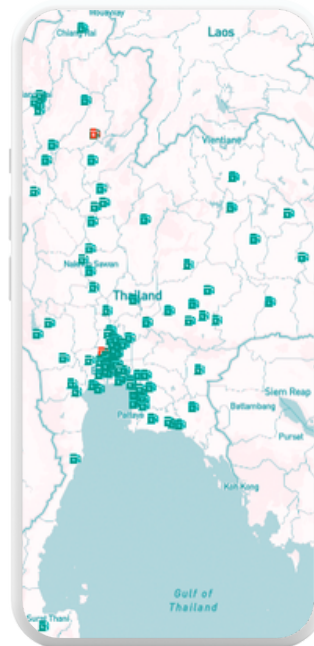


- EGAT
- PTG ENERGY PCL
- EGCO GROUP
- PRIVATE CUSTOMER

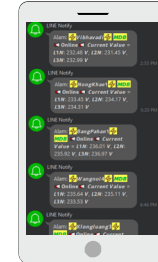
Conceptual Design

The DC Charger consists of four key components:

- **Protection Equipment:** Includes FUSE, RCBO, RCCB, AC Contactor, Motor Starter, Insulation Monitoring, Surge Protection, and Circuit Breaker.
- **Control Devices:** Utilizes PLC for power control, Raspberry Pi Industry for OCPP server communication, and Raspberry Pi 5 for fan speed control and power quality monitoring.
- **Control Software:** Supports dynamic charging and full safety interlock.
- **OCPP Software:** Ensures reliable server communication and data transfer for analytics using Raspberry Pi Industry.



TEMPERATURE & OFFLINE



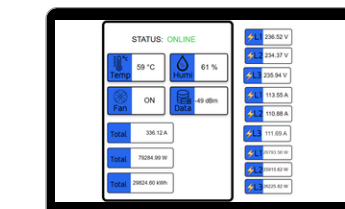
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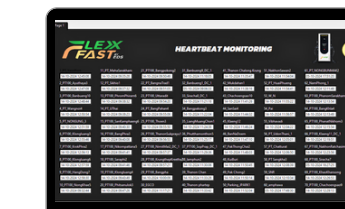
TEMPERATURE MONITORING



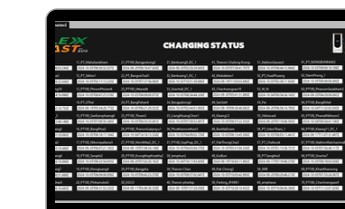
STATION MONITORING



MBD MONITORING



HEARTBEAT MONITORING



CHARGING MONITORING

