

# PEC Technology (Thailand)

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Company Profile & Project References

# About Us



**30 Years**  
Established in 1995.  
One of the very first  
Thailand battery vendor



**30+**  
More than 30 staffs  
including battery  
specialists



**~200**  
Average yearly revenue  
of 200 Million Thai Baht.



**ISO 9001-2015**  
QA Certified as battery  
service provider



## UPS References



Suvarnabhumi Airport



CS-LoxInfo



DTAC-TRUE



CAT (NT)



โครงการ  
นาลมลิเกอร์



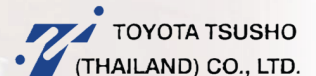
โครงการ  
Microgrid เกาะพะลวย



Mae Hong Sorn  
Smart Grid



PTTEP S1



Toyota Tsusho (Thailand)

## RE+BESS Integration

# Services & Products

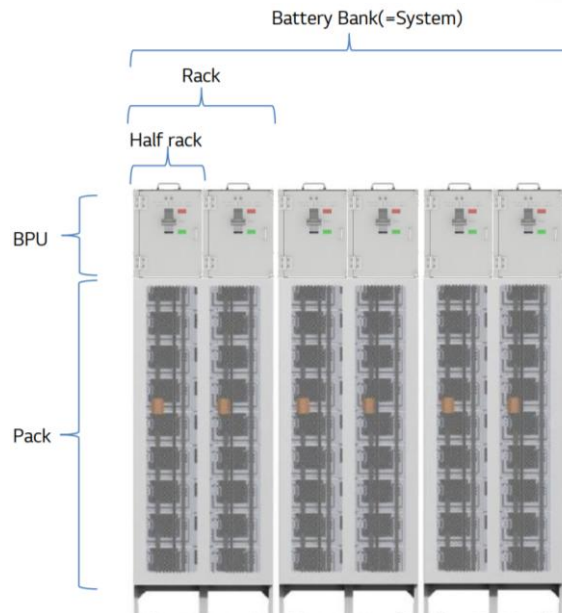
## Uninterruptible Power Supply (UPS)

ให้บริการครบวงจรสำหรับธุรกิจระบบไฟฟ้าสำรอง  
ทั้งแบตเตอรี่ VRLA และ Li-ion

C&D  
TECHNOLOGIES

TROJAN

LG CNS



## Battery Energy Storage System (BESS)

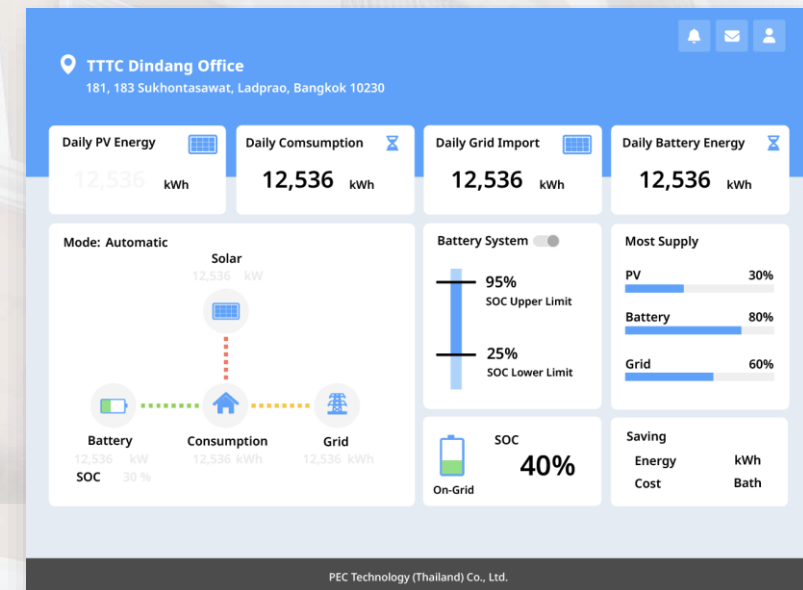
ออกแบบ ประเมินความคุ้มค่าการลงทุน และ ติดตั้ง  
ระบบกักเก็บพลังงานแบตเตอรี่สำหรับพลังงาน  
ทดแทน (RE Integration)



UL CERTIFIED	SEISMIC CERTIFIED	VDE-AR-N 4110 CERTIFIED
VDE-AR-N 4120 CERTIFIED	IEC CERTIFIED	IP65 CERTIFIED

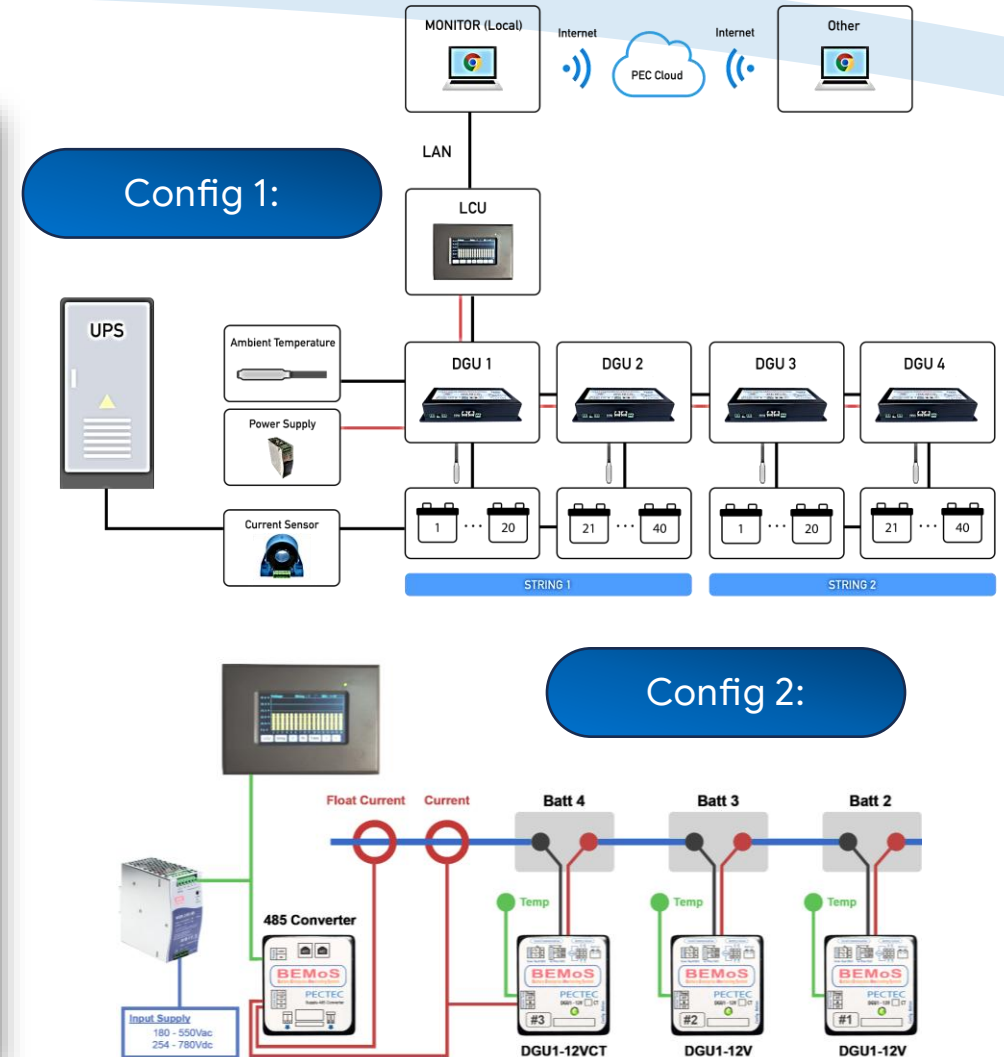
## Energy Management System (EMS)

การพัฒนา Solution เพื่อการควบคุมการทำงาน  
ของ RE+BESS ให้ทำงานร่วมกันได้มีประสิทธิภาพ  
และ ปลอดภัยกับผู้ใช้งาน



# Service Improvements = Our Key Success

## VRLA Battery Monitoring System (BEMoS)





# ขั้นตอนการปฏิบัติงานที่ถูกต้อง = ลดความผิดพลาด

## ACMDB

- ACB
- MCCB สำหรับ PCS
- MCCB สำหรับ Load
- Incoming Power Meter

## ระบบแบตเตอรี่ (Li-ion Battery System)

- Local HMI
  - Local plant operation
- Monitoring
  - Battery V/A
  - SOC, SOH
  - Temperature
- Auxiliary System
  - A/C
  - FFS + Gas detection

## Visual Check

ตรวจสอบสภาพอุปกรณ์ต่าง ๆ ว่าอยู่ในสถานะพร้อมใช้งาน

## EE Check

ตรวจสอบคุณสมบัติทางไฟฟ้า (กระแส แรงดัน ความต้านทานภายใน ฯลฯ)

## CC Check

ตรวจสอบอุปกรณ์สื่อสารหลัก และ การสื่อสารระหว่างอุปกรณ์

## Function Check

ตรวจสอบการทำงานของอุปกรณ์ (แยกตามความสามารถ) เช่น ความสามารถในการตัดวงจร หรือ ความสามารถในการทำความเย็น

## Operation Check

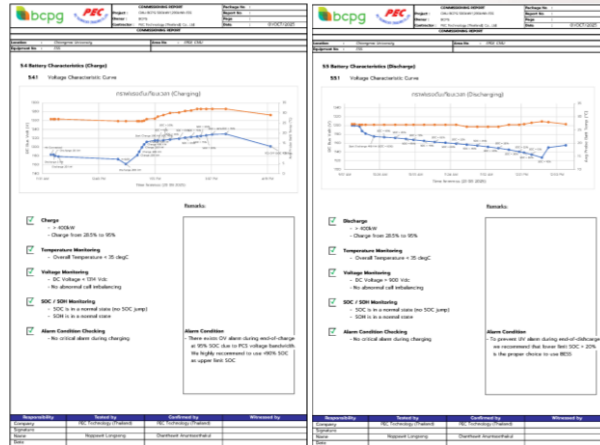
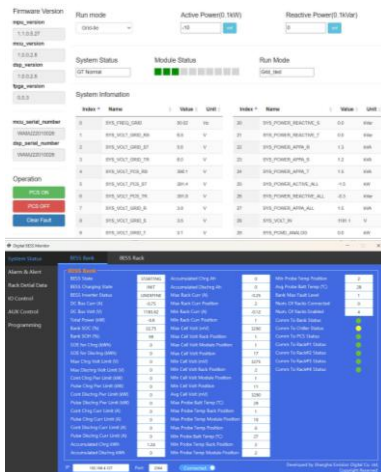
ตรวจสอบการทำงานของระบบในภาพรวม ทั้งภาคกำลังไฟฟ้า และ ภาคสื่อสาร เช่น การทดสอบ full charge/discharge หรือ การทดสอบประสิทธิภาพไปกลับ (Roundtrip Efficiency)

## PCS

- 5 x 100kW PCS
- Local HMI
- Local plant operation
- Manage kW via HMI or MODBUS TCP/IP

## Chiller

- 30kW Liquid-cooling system
- Local HMI
- Parameter Setup
- Operation



2/10/2026

Classified as confidential

# Meet Our MD & Founder



## Kasiean Sukemoke (Managing Director)

- Education: M.Eng. in Electrical Engineering, Chulalongkorn University (Thailand)
- Experiences: 30 years experience in power electronics and battery business, including VRLA and Li-ion batteries.
- Professional Societies:
  - Expert in evaluating research products and development for ENTEC/NSTDA in Energy Storage.
- Active Involvement:
  - A general speaker of the IEEE Power & Energy Society, having the privilege of sharing insights in the field of BESS.
  - Key contributor to the battery system and subcommittee of the national standard for solar rooftops of The Engineering Institute of Thailand (EIT)
  - Dedicated member of the Thailand Energy Storage Technology Association (TESTA).

# Engineering-driven Team Lead



Kasiean Sukemoke (EE)  
Managing Director



Suksaksit  
Limluecha (EE)  
Engineering Manager



Warinthorn  
Sirichotebowornpat (EE)  
System Engineer



Chanthawit  
Anuntasethakul (EE)  
Product Manager



Nantiya  
Limluecha (EE)  
Technical Sales  
Support



Phimnaphat  
Phonthani (EE)  
System Engineer





# Project References

UPS & BESS



## UPS References

- UPS
- Inverter/Rectifier

1. SUVARNABHUMI AIRPORT
2. CS-LOXINFO
3. DTAC
4. CAT Telecom

## PROJECT REFERENCE

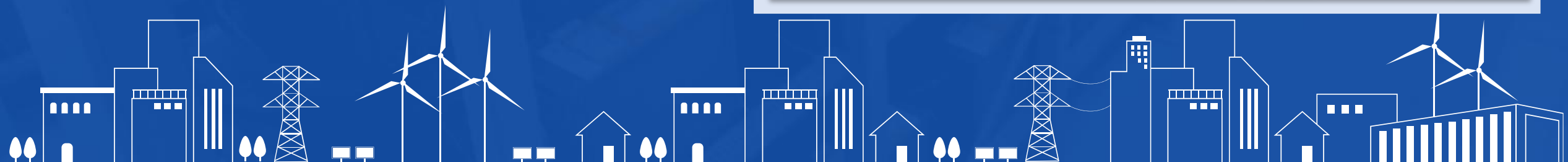
# SUVARNABHUMI AIRPORT



- Current status: Active (COD: 2021)
- Scope of work: Long-term EPC contracts of **3,550 kWh VRLA UPS** (total) under various requirements from AOT.

## DESCRIPTION

Power backup for *Suvarnabhumi International Airport*, the largest international airport in Thailand.



## PROJECT REFERENCE

### CS-LOXINFO

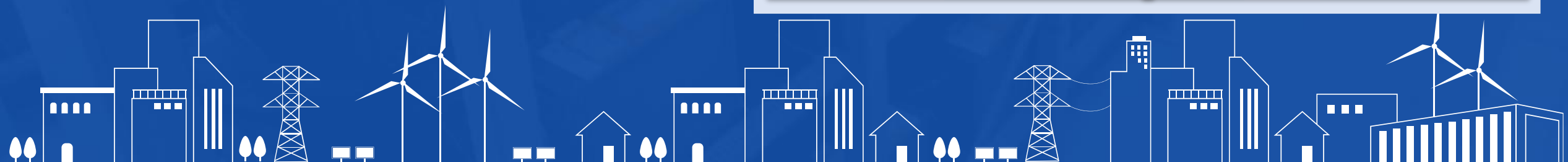


One Stop ICT Service

- Current status: Active (COD: since 2015)
- Scope of work: PC contract of 500 kVA/30 minutes Li-ion UPS in 2016 and PC contract of 1,000 kVA/30 minutes Li-ion UPS in 2017.

## DESCRIPTION

Power backup for a *data center of CS-Loxinfo*, joint venture company of CAT Telecommunication (CAT) and Thaicom (THCOM).



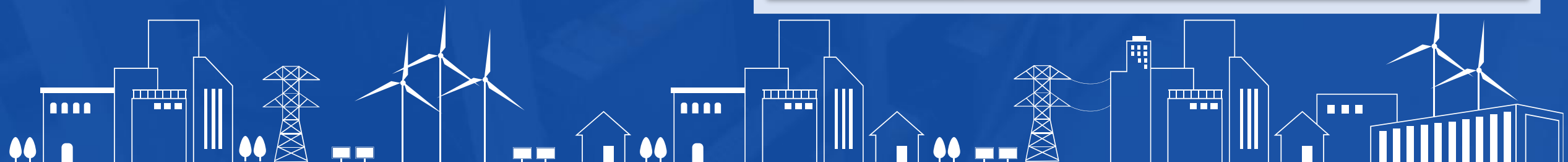
## PROJECT REFERENCE



- Current status: Active (COD: since 2007)
- Scope of work: Long-term EPC contracts of **12,715 kWh VRLA UPS** (total) under various requirements from DTAC.

## DESCRIPTION

Power backup for headquarters and branches of *Total Access Communication (DTAC)*, the third-largest Thailand GSM network provider.





## PROJECT REFERENCE

# CAT Telecom



Sense of Communications  
CAT Telecom Public Company Limited

- Current status: Active
- Scope of work: Long-term EPC contract of **1,305 kWh VRLA UPS** (2020) under various requirements from CAT.

## DESCRIPTION

Power backup for headquarters and branches of *CAT Telecom*, state-owned enterprise running international telecommunications infrastructure of Thailand.



# Project References

- Energy Storage System
- Renewable Energy Integration

1. Microgrid at Phaluai Island
2. Mae Hong Sorn Smart Grid
3. PTTEP S1
4. Lomligor
5. Toyota Tsusho (Thailand)

## PROJECT REFERENCE

# Microgrid at Phaluai Island



- Current status: Active (COD: MAR 2024)
- Scope of work: EPC contract for **1.25MW PCS** as a main equipment for islanding grid operation including virtual synchronous generator and grid stabilization

## DESCRIPTION

Microgrid Project at Palhuai Island (MGPI) is under the operation of PEA. MGPI includes Diesel generator, and solar power plant. Key idea of the project is to use PV together with Battery Energy Storage (BESS) as a main power supply and diesel generator as a backup power supply to combine as off-grid microgrid to supply power to meet the 100% electrification target





## PROJECT REFERENCE

# Mae Hong Sorn Smart Grid



- Current status: Active (COD: NOV 2023)
- Scope of work: Working contract of BESS installation and EMS design for 5,175kW/6,192 kWh BESS (2022) under various requirements from EGAT.

## DESCRIPTION

Generation-site peak shaving, PV smoothing, voltage control, and emergency power backup for Mae Hong Sorn Smart Grid (MSPP) - EGAT, state-owned enterprise running power generation.





## PROJECT REFERENCE

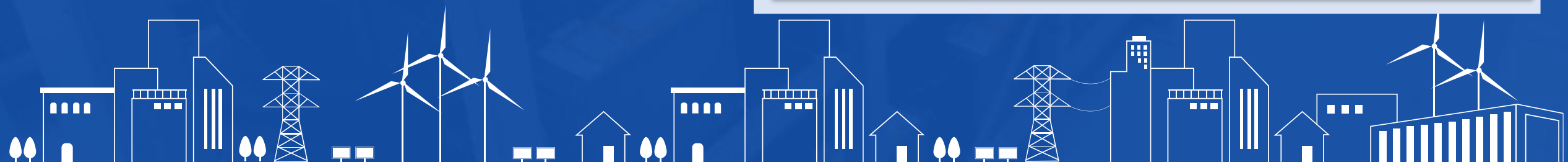
### PTTEP S1



- Current status: Active (COD: SEP 2023)
- Scope of work: EPC contract of 250kW/1740kWh BESS in 40ft all-in-one container solution (2022) under various requirements from Future Solar Technology (owned by PTTEP).

## DESCRIPTION

Self-consumption and emergency power backup for PTTEP S1 office, state-owned enterprise running petroleum exploration and production.



## PROJECT REFERENCE

# LOMLIGOR bcp g

- Current status: Active (COD: Dec. 2019)
- Scope of work: EPC contract of 729.6 kWh Li-ion batteries and 1,152 kWh advanced lead-acid batteries. The main application of the BESS is “generation-side peak shaving”.

## DESCRIPTION

*Lomligor*, owned by BCPG group, is a wind power plant with a size of 4x2.5 MW, located at Nakhon Si Thammarat, Thailand.



## PROJECT REFERENCE

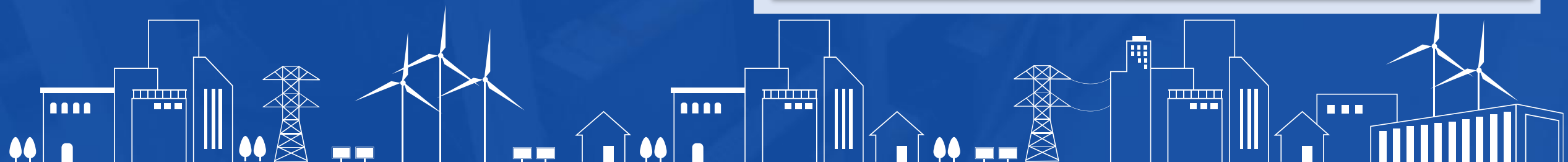
# Toyota Tsusho (Thailand)



- Current status: Active (COD: SEP 2024)
- Scope of work: EPC contract of 20kW/40kWh BESS indoor solution + Energy Management System (EMS) under various requirements from TTTC.

## DESCRIPTION

20kW/40kWh BESS for an office building integrated with 250 kW existing PV system. The EMS is designed by PEC, aims to serve battery energy application with customizability





## PROJECT REFERENCE

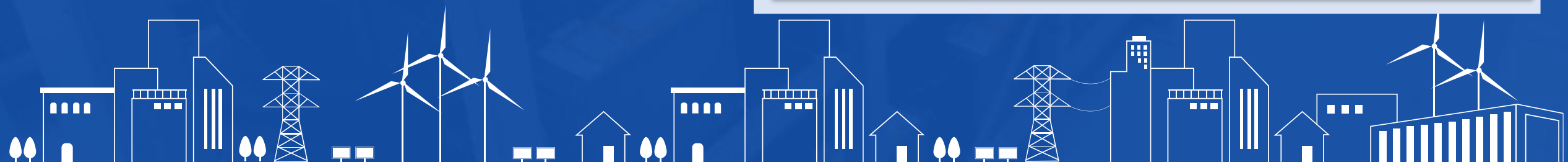
# EDRI-CMU



- Current status: Active (COD: OCT 2023)
- Scope of work: EPC contract of 50kW/45kWh BESS indoor solution under various requirements from EDRI-CMU and CCT.

## DESCRIPTION

Peak shaving and emergency power backup for Energy Research and Development Institute Nakornping - Chiang Mai University (EDRI-CMU) office.





## PROJECT REFERENCE

# EGCO SAI YAI1



- Current status: Active (COD: DEC 2021)
- Scope of work: EPC contract of 30 kW/64.8 kWh Li-ion BESS, coordinating with PV. The main application of the BESS is an “Net-zero operation”.

## DESCRIPTION

*EGCO Sai Yai 1 project* is an illustrative case study of renewable power plant under the MOU between PECTEC and ITE for Solarco.



## PROJECT REFERENCE

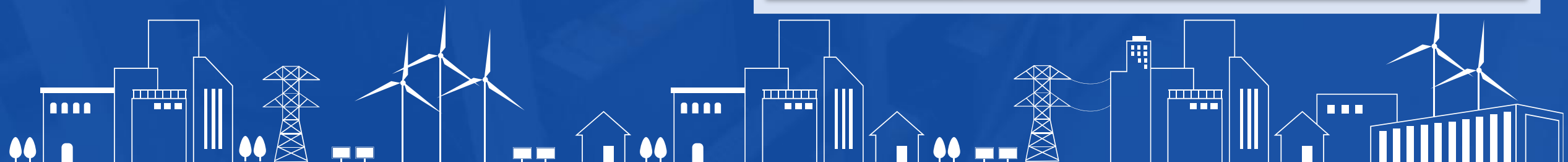
# PHULANKA



- Current status: Active (COD: JUNE 2020)
- Scope of work: EPC contract of 18 kW/67 kWh Li-ion BESS, coordinating with PV, a diesel generator, and a wind turbine. The main application of the BESS is an “off-grid operation”.


## DESCRIPTION


*Phulanka project* is an illustrative case study of renewable power plant under the MOU between PECTEC and King Mongkut's Institute of Technology Ladkrabang (KMUTL).



## Contact us

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