

Christiani & Nielsen Energy Solutions Co., Ltd.



Developing **A**ssets by **S**aving & **S**ustaining **E**nergy



Brief Introduction

Eastern Energy Ltd



MAJAN MINING



CHRISTIANI & NIELSEN



eka

Eka Software Solutions Ltd



Golden Lime PCL



AVANI
Atrium Bangkok



MJETS



Alva Aluminium Ltd



Precious Shipping PCL



GeePee Air Service Ltd

AMBIKA
TOUR AGENCY LIMITED



Ambika Tour Agency Ltd



DELIVERING QUALITY WORLDWIDE



A part of GP group

What can we do for you

Turnkey Service Provision including:

- *Engineering*
- *Procurement*
- *Construction*
- *Project Finance*
- *Operation & Maintenance*
- *Monitoring & Reporting*



Key services and projects

2021



Developing Assets by Saving
& Sustaining Energy

Turnkey EPC

Operating
subsidiary

Developer



Tentative
Incorporation;
Q4-2021

ESS Battery Storage

Tentative Incorporation; Q4-2021
Development of C&I Solar projects for
Indorama

CNES Indonesia
CNES Philippines

CNES China

CNES EU

2020

Solar Market Share :

17%

2019

Solar Market Share :

6%

Growth in Project Acquisition:

7x
Growth

2019 : 3MWp
2020 : 22MWp



Our structure and growth

Services in the Solar PV Sector

Services in the Solar PV Sector

15-25 Years PPA with
significant Discount from Avg. PEA
/ MEA rates

Purchasing System

Turn-key services with :

- Targeting Zero Capital Investment solutions
- All-inclusive support including BOI
- Provision of performance guarantees
- Provision of project financing support



Our structure and growth

Financial Growth 2019-2020

2021 Projections

Key financial figures

10x

Growth in
Revenue

10m

Registered
capital

2.3x

Growth in backlog
carry forward to 2021

(Unit : THB mil)

Financial items	2019	2020
Registered capital	10.0	
Revenue (M THB)	0.7	79.7
Net Profit (M THB)	(19.6)	1.9
Backlog (M THB)	13.9	340.34

Project bid status

Nature	Installed Capacity (MWp)	Projected Budget (M-THB)	%
Contracts Signed/Documentation underway	9.04	213.32	15.34
Projects with high certainty	16.62	356.12	28.21
General Bid	33.254	726.35	56.45
Grand Total	<u>58.914</u>	<u>1295.65</u>	100.0



Key financial figures & Growth

Main Supporting Service Providers



Selected Clients / Facility Owners



Asia Industrial Textile Co. Ltd.
We Structure Strength



*CNES Solar PV Project
Reference*



Projects being Acquired / Executed



Operational



- Client: BayWa R.E.
- Owner: Tetrapak
- Location: Eastern Seaboard
- Capacity: 1,000 kWp
- Year: 2018
- Type: EPC – Roof



Operational



- Owner & Client: Golden Lime
- Location: Lopburi
- Capacity: 2,000 kWp
- Year: 2019 - 2020
- Type: EPC + O&M – Ground



Operational



- Client: Aero Engineering
- Owner: Sheico (Thailand)
- Location: Eastern Seaboard
- Capacity: 1,000 kWp
- Year: 2019
- Type: EPC – Roof



Installation Finished



- Client: Cleantech
- Owner: Kellogg's
- Location: Eastern Seaboard
- Capacity: 997 kWp
- Year: 2020
- Type: EPC – Roof



Operational



- Owner & Client: Christiani & Nielsen
- Location: Bangna
- Capacity: 60 kWp
- Year: 2020
- Type: EPC + O&M – Roof



Operational



- Owner & Client: Christiani & Nielsen
- Location: Sriracha
- Capacity: 216 kWp
- Year: 2020
- Type: EPC + O&M – Roof

Projects being Acquired / Executed

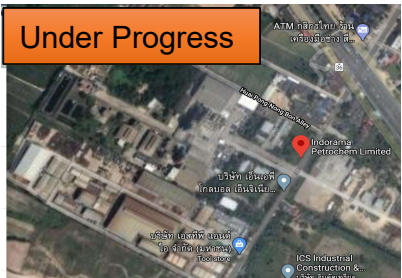
Under Progress



INDORAMA
VENTURES

- Client: CNES D1
- Owner: Indorama Ventures
- Location: Nakhon Pathom
- Capacity: 4,445 kWp
- Year: 2020-2021
- Type: PPA Project

Under Progress



INDORAMA
VENTURES



- Client: Glow Group
- Owner: Indorama Ventures
- Location: Rayong
- Capacity: 2,962 kWp
- Year: 2020-2021
- Type: EPC + O&M – Roof/Ground

Under Progress



INDORAMA
VENTURES

- Client: CNES D1
- Owner: Indorama Ventures
- Location: Rayong
- Capacity: 1,145 kWp
- Year: 2020-2021
- Type: PPA Project

Under Progress



INDORAMA
VENTURES

- Client: CNES D1
- Owner: Indorama Ventures
- Location: Lopburi
- Capacity: 1,446 kWp
- Year: 2020-2021
- Type: PPA Project

Final Negotiation



INDORAMA
VENTURES

- Client: CNES D1
- Owner: Indorama Ventures
- Location: Korat
- Capacity: 800 kWp
- Year: 2021
- Type: EPC + O&M – Roof

Operational



- Client: Kulthorn Kirby
- Location: Labkrabang
- Capacity: 64 kWp
- Year: 2020
- Type: EPC + O&M – Car parking
- Executed in 20 days

Projects being Acquired / Executed

Under Progress



- Owner & Client: SRF Industries
- Location: Rayong
- Capacity: 5 MWp
- Year: 2020
- Type: EPC + O&M Project

Under Execution



- Owner & Client: PTTLNG
- Location: Mataput
- Capacity: 280 kWp
- Year: 2020
- Type: EPC – Roof

Operational



- Owner & Client: Indian Embassy
- Location: Bangkok
- Capacity: 59 kWp
- Year: 2020
- Type: EPC – Roof

Under Execution



- Owner & Client: DOD Biotech PCL
- Location: Samut Sakhon
- Capacity: 476 kWp
- Year: 2020-2021
- Type: EPC +O&M – Roof

Under Execution



- Owner & Client: Siam Environmental Technologies
- Location: Rayong
- Capacity: 950 kWp
- Year: 2020-2021
- Type: EPC +O&M – Floating

Under Progress



Asia Industrial Textile Co. Ltd.
We Structure Strength

- Client: CNES D1
- Owner: Asia Industrial Textile
- Location: Nakhon Pathom
- Capacity: 960 kWp
- Year: 2020-2021
- Type: PPA Project

Projects being Acquired / Executed

Under Progress



INDORAMA
VENTURES

- Client: CNES D1
- Owner: Indorama Petrochem
- Location: Rayong
- Capacity: 1380 kWp
- Year: 2021
- Type: EPC to Own Subsidiary

Under Progress



INDORAMA
VENTURES

- Client: CNES D1
- Owner: Indorama Ventures
- Location: Lopburi
- Capacity: 5,400 kWp
- Year: 2021
- Type: EPC to Own Subsidiary



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