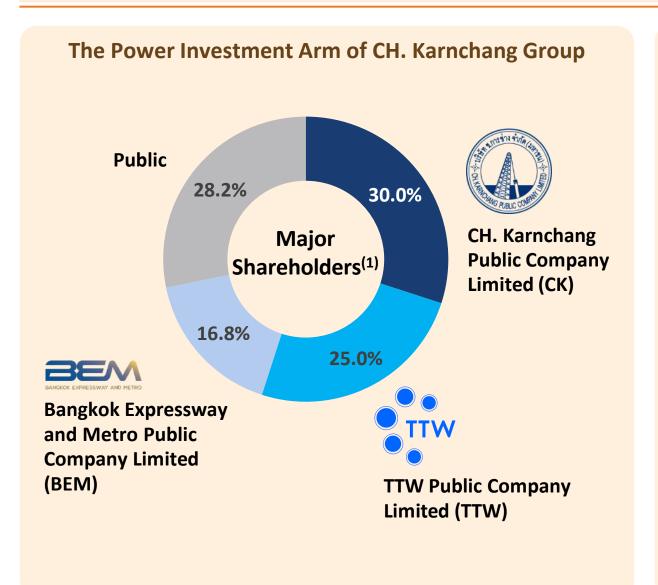


1. Corporate Overview



Corporate Overview







General Information

Symbol : CKP

Established Date : 8 June 2011

Listed Date : 18 July 2013

Paid-up Shares : 8,129,382,729 shares

Par : Bt 1.00 per share

Registered Capital: Bt 8,129 mn

Market Cap : Bt 42,679 mn⁽²⁾

Indices : SET 100

SET THSI

SET CLMV

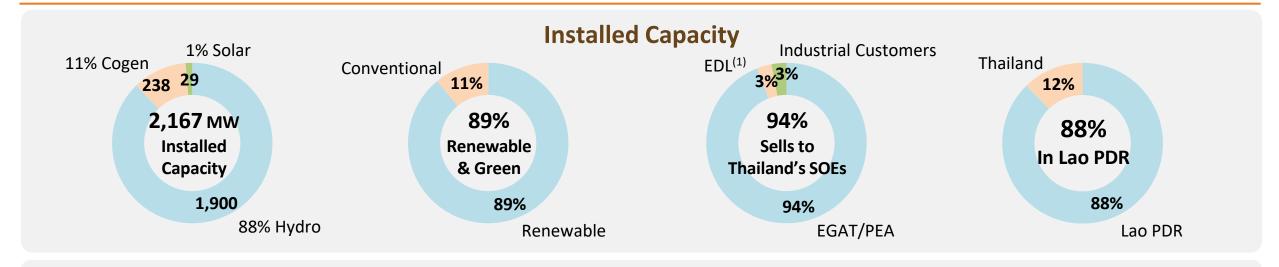
Sector: Energy

TRIS Rating: A / Stable

CG Score : $\triangle \triangle \triangle \triangle \triangle$

Portfolio Snapshot





Project Highlights



Nam Ngum 2



COD ⁽²⁾ :	2013
Ownership:	46.0%
Capacity MW:	615
Equity MW:	283



Xayaburi



COD:	2019
Ownership:	42.5%
Capacity MW:	1,285
Equity MW:	546





COD:	2013, 2017
Ownership:	65.0%
Capacity MW:	238
Equity MW:	155



Solar Projects



COD: 2012-2020
Ownerships: 30%-100%
Capacity MW: 29
Equity MW: 19

CKP Long-term Corporate Strategy

TO BE ONE OF THE REGION'S **LARGEST PRODUCERS**OF ELECTRICITY FROM **RENEWABLES** WITH ONE OF THE **LOWEST CARBON FOOTPRINTS**



TO GENEREATE AN OPTIMAL STABLE AND FAIR RETURN FOR SHAREHOLDERS



TO BE RESPONSIBLE TO THE ENVIRONMENT COMMUNITY AND ALL STAKEHOLDERS

GROWTH

DOUBLE CAPACITY IN 3 YEARS



4,800 MW Total by 2024

95% Renewable



Wind

Solar

ASEAN Focused

PROFITABILITY

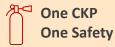
OPERATIONAL EXCELLENCE



Zero Downtime Operation



Regional Hydro Forecasting & Shared Service Center



Green Financing

SUSTAINABILITY

STRENGTHEN BUSINESS SUSTAINABILITY, CLIMATE CHANGE STRATEGY, CG AND RISK MANAGEMENT











Energy management and Climate Change

- 100% Renewable Electricity Consumption within Organization Including REC (1) by 2043
- > 95% Renewable Energy Capacity by 2043
- Net Zero GHG Emission by 2050

Biodiversity

- Develop Biodiversity Roadmap by 2023
- Assessment of Residual Impact at all operation sites by 2025
- Strive toward No Net Loss (NNL) of Biodiversity and Ecosystem Services by 2040



Partnership for Life
Governance

Kind Neighbor

Respect for Human Rights

- Develop the Human Rights Roadmap for our business by 2022
- Raising Awareness for Human Rights cover 100% for Employee by 2022
- 100% Assessed Human Right Risk and Impact Assessment throughout our Value Chain
- Zero Cases of Human Rights Violation

Social and Community Care

- Zero unresolved Complaints
- Develop CSR Strategy/Corporate Citizenship Strategy by 2022
- Creating Value for Society and Ecosystem with Renewable Electricity by 2026



Partnership For Life

Business Model Resilience

- Explore New Customers & Geographies within ASEAN
- Integrate Digital Transformation & other Innovations



2. Business Challenges & Resilience

การบริหารจัดการธุรกิจท่ามกลางแรงกดดันทางเศรษฐกิจ



Business Challenges in Power Business



Two Main Business Challenges for CKPower are (1) Global Trends in Power Business and (2) Technology Disruption.



Global Trends in **Power Business**



Business Challenge #1: Global Trends in Power Business





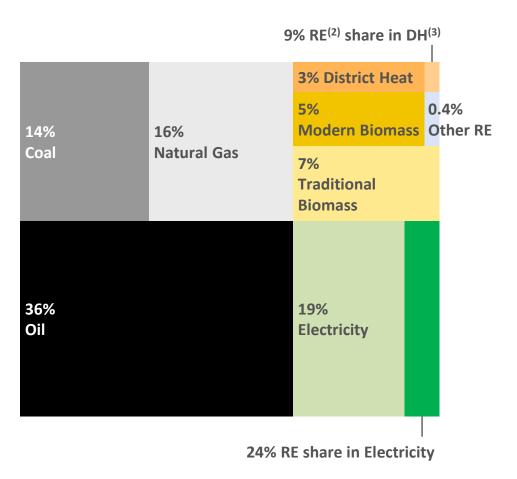
Global Trends in Power Business

- Fossil fuel shortage & depletion driving price & inflation
- GHG Emissions from fossil fuel power plants cause more climate changes
- Accelerate action towards Net Zero GHG Emissions (COP26)

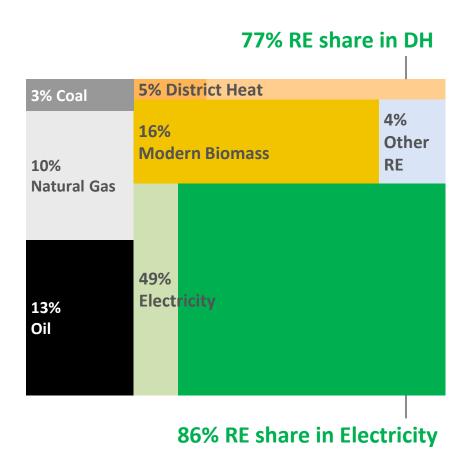
Business Challenge #1: Global Energy Use Trend



Today: 395 EJ⁽¹⁾ Total Final Energy Use



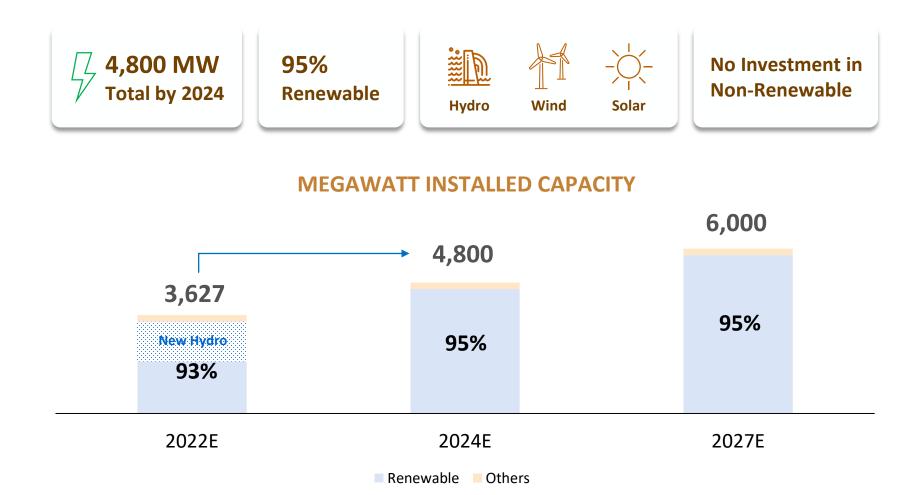
2050: 351 EJ Total Final Energy Use



Business Challenge #1: Growth Strategy



Our Corporate Strategy is to invest only in renewable power plants with no plan for additional investment in cogeneration or fossil fuel related power plants to mitigate and minimize our reliance on depleting fuel sources.



Business Challenge #2: Technology Disruption





- Technological disruption causing changes in demand patterns
- Innovation driving down investment cost and intensifying competition
- Rising demand of electricity from sustainable and environmentally responsible sources

Business Challenge #2: Key Technological Trends in Power Industry



The following key technological developments are driving the changes and disruptions to the power generation industry.



Green & Renewable Energy Focus

- Environmental concerns
- Demand for social responsibility
- Limited suppliers of fossil fuels



Electric Vehicle & Digital Devices

Electricity demand and usage behavior driven by:

- Shift in automotive industry towards electric vehicle
- Proliferation of digital devices, cloud computing, etc.



Battery Storage

 Volatile renewable power sources such as solar & wind driving development of battery storage as buffer / load management



Off-grid Power Generation

- In-house power production i.e. solar rooftop bypassing national grids
- Bilateral tariff negotiation, independent from national price



Smart Grid & 3rd Party Access

- AEC / EEC driving development of more advanced grid & transmission system
- Cross-border electricity sales with Thailand as center
- Extra High Voltage transmission & HVDC









Hydro Power is an Absolute Solution for Technology Disruption

Business Challenge #2: Construction & Management Strategy for Our Investments



All our power plants are designed, constructed and managed with world-class highly-experienced contractors and operators and are based on long-term historical and statistical analysis of renewable resource to ensure long term adequacy of such natural resource availability, and consequently, long-term investment returns.



World Class
Design &
Equipment



Zero
Downtime
Operation



Regional
Hydro
Forecasting
Center



Operational & Financial Risk Management



Environment & Social

- World Class Engineering
 Design, Construction,
 Equipment, & Technology
- Proven Long-term Historical Hydrology and Geology Data
- Synergy through Vertical Integration with EPC⁽¹⁾ Contractor
 - Quality & CostCompetitiveness

- Predictive Maintenance
- BCM Business Continuity
 Management
- International Standard of Health and Safety
- Centralized Hydrology Center
- Integration between NN2,
 XPCL and Future Projects
- Coordination across Cascade (including Side Flow Projects)
- Long-term Secured PPA with Shortfall/Makeup Mechanism
- Cash Flow Management with Financial Covenant, Cash Reserve, and Credit Line Commitment
- Utilize World-class Proven Technology
 - XPCL: World's First & Largest Fish Passing Facility, Integrated Fish Lock and Fish Ladder
 - LPCL: Fish passing innovation using gravity in place of pump station in operation

In-house Engineering Expertise

Design, Engineering, Operation & Maintenance Capabilities within CKP

Exploration Team

Dedicated Engineering Team to Explore and Integrate New Technologies into CKP's Operations

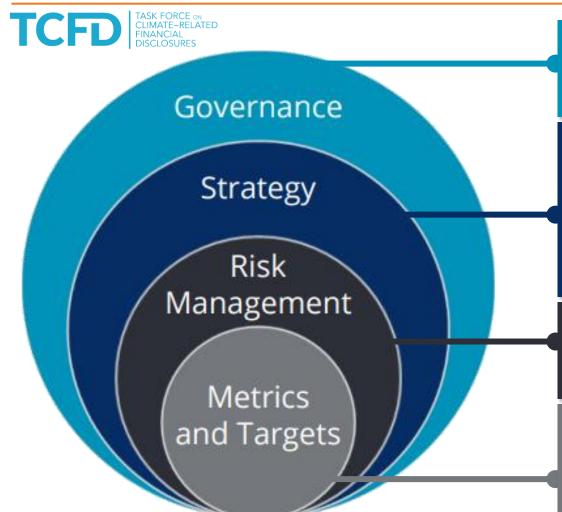
3. Climate Change

การบริหารจัดการธุรกิจท่ามกลางแรงกดดันทาง การเปลี่ยนแปลงสภาพภูมิอากาศ



CKPower Climate Change Framework





- Governance / KPI / Incentives
- Oversight on strategic business plan, budget, monitoring, and implementation
- Renewable energy growth plan
- No additional fossil fuel powerplant
- Carbon pricing
- Increase internal use of renewable energy
- Accelerate fuel switching
- Afforestation
- Risks and opportunities assessment
- Enterprise Risk Management
- Potential Opportunity for further development
- Direct GHG emission (Scope 1- tCO2e)
- Indirect GHG emission (Scope 2- tCO2e)
- GHG Intensity emission (tCO2e/MWh)
- Renewable Energy Capacity (MW)
- Renewable Electricity Consumption (MWh)





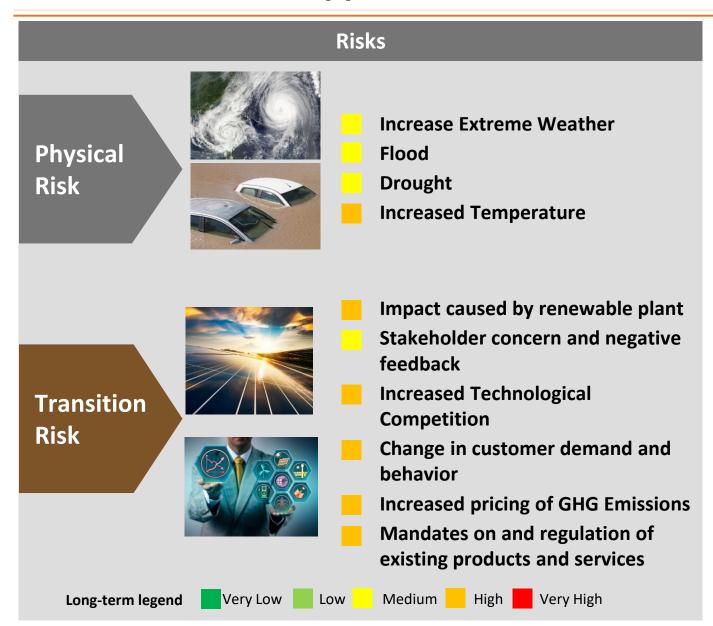






Climate Risks and Opportunities





Opportunities



Renewable Energy growth



Low carbon technology integration e.g. resource efficiency in production, energy saving program in owned assets

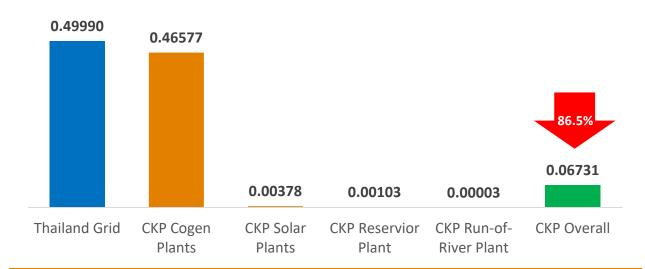


Environment Attribution Certificate (EAC) participation e.g. I-REC (1)

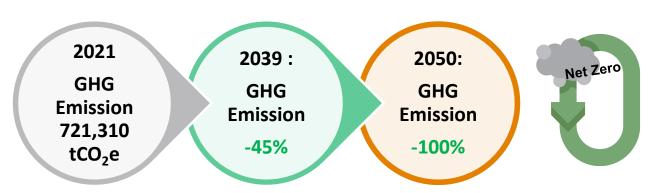
CKPower GHG Reduction Pathway



CKP GHG Emission Intensity VS Thailand Grid (tCO2e/MWh)



CKPower GHG Emission Pathway





CKP Avoided 4.6 MtCO₂e of GHG Emission in 2021 (Annually)

Power Plant Type	GHG Avoidance in 2021 (tCO2e)
CKP Solar Plants	11,621
CKP NN2	922,224
CKP XPCL	3,651,611
Total	4,585,456

- CKPower expects to achieve a net zero GHG emission by 2050
- Key initiatives to meet 100% renewable electricity consumption:
 - 100% Reduction of absolute GHG Emission (GHG Scope 1 and Scope 2 (tCO2e))
 - 100% Reduction of GHG Intensity Emission
 - o Reduction of non-renewable power plants in portfolio
 - Afforestation

4. Value Added to Communities & Environment

บทบาทของบริษัทในการสร้างการเปลี่ยนแปลงเชิงบวก

ต่อสังคม และ/หรือ สิ่งแวดล้อม



Core Competency to Create Social Value with Community & Partners (a) CKPower



COMPETENCY

Empower communities with our core competency and give a better quality of life through access to clean energy and essential utilities



co-create with community to improve processes, and develop innovations for a sustainable society



COOPERATION

Connect with value co-creation partners to sustainably strengthen and empower society

สร้าง сомместіом

cooperation with employees and communities to bring about development and advancement of society at large

Create a learning resource about renewable energy and bringing the competency to equip communities in the area surrounding the power plant with clean energy



6 Consecutive Years of CKPower's Hinghoi Project





2020 Hing Hoi 4

Ban Kang School in Luang Prabang District, Lao PDR and communities surrounding the Xayaburi Hydroelectric Power Plant

Employee Volunteers 100 persons

Children and Youth

Public benefits and

3 Public infrastructure

public properties

94 persons

Communities

Partnership and network

2 Partnerships

Learning center for

renewable energy

Learning center

2021-2022 Hing Hoi 6

Hin Hua Seua Kindergarten, in the vicinity of the Nam Ngum 2 Hydroelectric Power Plant in Xaisomboun Province, the Lao PDR

Benefitted Communities

Partnership and network

Children and Youth

Public benefits and public properties

Learning center for renewable energy

2016 Hing Hoi 1

Poo Kham Noi Village, Mae Pa Klang Village, Sop Moei District, Mae Hong Son Province







2 Public infrastructure 1 Learning center







2021 Hing Hoi 5

Wat Kudi Prasit School, Lam Sai Sub-district, Ayutthaya Province and communities surrounding Bangpa-in Cogeneration Power Plant



Employee

Public benefits

and public

properties



Communities

communities



Partnership





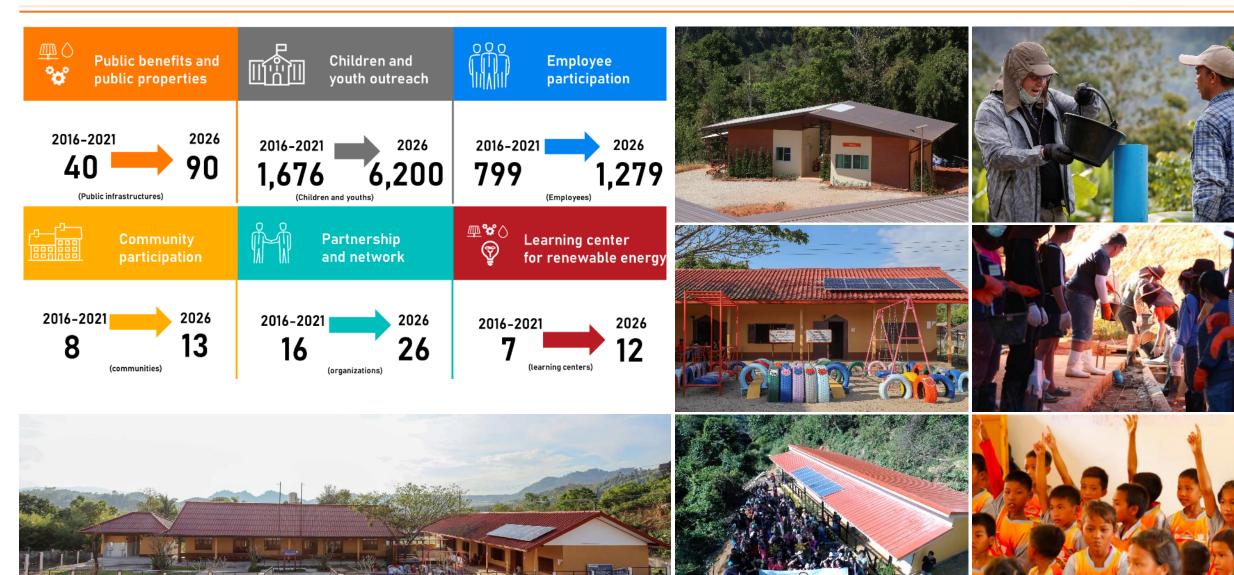
Learning center for renewable energy

Children and Youth

Learning center

10 Years Roadmap for Value Creation to Society





Sustainability Strategy & Action Plans





ENVIRONMENTAL

Clean Electricity

Energy Management and Climate Change



Net Zero GHG Emission by 2050

100%



Renewable Electricity
Consumption within
Organization by 2043 (1)

>95%

Renewable Fnergy

Energy Capacity by 2043



Biodiversity

Assessment of residual impact at all operation sites by 2025

No Net Loss of biodiversity and ecosystem services by 2040

Renewable Electricity for a Sustainable Future



GOVERNANCE

Partnership for Life

Business Model Resilience



- Explore new customers & geographies within ASEAN
- Integrate digital transformation & other innovations

SOCIAL

Kind Neighbor

Respect for Human Rights

100% assessed Human Right Risk and Impact Assessment (2)



Zero

cases Violation

Social and Community Care

Zero

unresolved complaints







for society
and ecosystem with
renewable electricity

⁽¹⁾ Including REC

⁽²⁾ Throughout value chain