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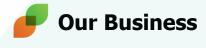
TCFD

Introduction

Introduction

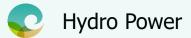
Company Overview

F BCPG Public Company Limited (BCPG), is one of Asia-Pacific's leading companies in clean energy with solar, hydro, wind and natural gas power located in Thailand, Japan, Taiwan, Laos, Vietnam, the Philippines and the United States.

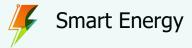


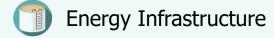














Our Power Generation Portfolio

2,025.2 MW.

Contracted Capacity

1,249.9 MW

Operating

775.3 MW

Developing





Solar Power

735.5 MW. 318.7 MW.



Hydro Power

114.0 MW.







About TCFD

The disclosure of our climate strategy is performed in accordance with Task force on Climate-related Financial Disclosures (TCFD) comprising of four main aspects: Governance, Strategy, Risk Management, and Metrics and Targets.



Governance

Governance

The organization's governance around climate-related risks and opportunities

Strategy

The actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning

Risk Management

The processes used by the organization to identify, assess, and manage climate-related risks

Metrics and Targets

The metrics and targets used to assess and manage relevant climaterelated risks and opportunities

Source: Framework by Task Force on Climate Related Financial Disclosures (TCFD), https://www.fsb-tcfd.org





Governance

Introduction



Management Structure

bcpg Forward | Green | World

Board Directors

Corporate Governance and Sustainable Development Committee (CGCDC)

- Propose corporate governance and sustainable development practices including climate-related issues.
- Supervise the performance of the Board of Directors and the management with good corporate governance and sustainable development principles.
- Review good corporate governance and sustainable development practices including climate change guideline using TCFD and making recommendations to the Board of Directors for continuous improvement.
- Perform duties as assigned by the Board of Directors.

Enterprise-wide Risk Management Committee (ERMC)

Metrics and Targets

- Propose risk management policy, strategy and targets for climaterelated risk management.
- Supervise risk management plans to be at an acceptable level.
- Promote cooperation in risk management at all levels of the organization.
- · Report to the Board of Directors acknowledge.
- Perform duties as assigned by the Board of Directors

Corporate Sustainability Committee (CSC)

- · Review climate-related risks and opportunities management performance.
- Provide recommendations on sustainable development policies, further strategy or action plans, and targets of Carbon Neutrality by 2030 and Net Zero GHG emission by 2050.
- Report to Corporate Governance and Sustainable Development Committee (CGSDC) and Enterprise-wide Risk Management Committee (ERMC).

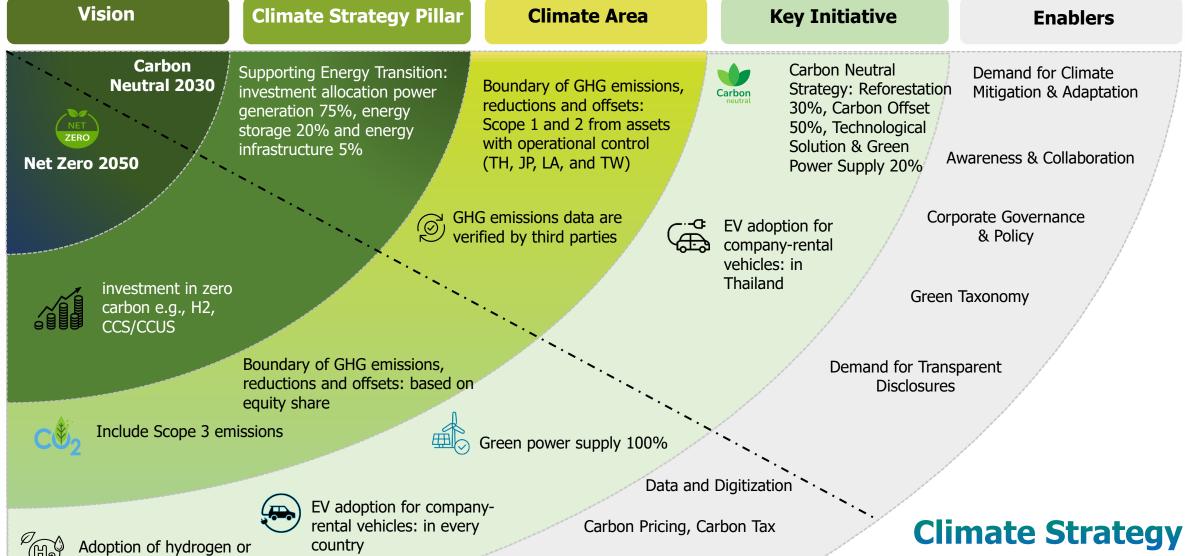




TCFD

Strategy

Introduction





CCS/CCUS for CCGT

Decarbonization Solutions & Innovation

Scope of Assessment:

With reference to TCFD recommendations, we conduct scenario analysis of the following assets to anticipate the impact of climate change on our business. This was made possible thanks to the collaboration among different business units e.g., Operation, Finance and Asset Management.









Solar & Wind Power (17 Sites)

Hydro Power (1 Sites)

Natural Gas Power (4 Sites)

Energy Infrastructure (1 Site)



GHG Reduction 20% in 2025



Carbon Neutral by 2030





Transition Scenario Analysis

| Risks Type | Scenarios | | Source | Time Horizons |
|--------------|--|--|---|---|
| Transition * | Stated Policies Scenario (STEPS) Current trajectory based on the stated climate policy ambitions, represents business as usual towards 2050. | Announced Pledges Scenario (APS) Aligned with the Paris Agreement to limit warming to "well below 2°C", assumes all climate commitments will be met. | - World Energy Outlook 2023 (WEO) - International Energy Agency (IEA WEO2023) | Short term: 2023- 2025 Medium term: 2030 Long term: 2050 |

^{*} Including: Asset in USA, Japan, Philippines, and Taiwan

| Carbon Price | | | | | | | | | | |
|---------------------------------------|------|------|------|------|--|--|--|--|--|--|
| USD (2022) per ton of CO ₂ | 2025 | 2030 | 2040 | 2050 | | | | | | |
| Thailand-SDS | 5 | 17 | 40 | 80 | | | | | | |
| Thailand-NZE | 5 | 17 | 60 | 160 | | | | | | |
| EU-IEA SDS | 63 | 89 | 140 | 227 | | | | | | |
| EU-IEA NZE | 76 | 130 | 205 | 250 | | | | | | |

We assume Thailand's carbon taxes based on the study published by Thailand Greenhouse Gas Management Organization (TGO), World Economic Outlook published by IEA, and discussion with the officials of TGO.

In both SDS and NZE scenario, we assume Thailand will implement carbon tax in year 2025 with the initial price of USD 5/t CO_2 and gradually increase to USD 17/t CO_2 , in 2030.

EU carbon prices are based on International Energy Agency (IEA) on both SDS and NZE scenarios



Physical Scenario Analysis

| Risks Type | Physical Risks | Technology | Indicator | Climate Scenario | Timeframe | Tool |
|------------|--|-----------------------------|---------------------------|----------------------------|---|--|
| Acute | Flood | Solar | Rainfall | | Short term: 2023-2025 Medium term: 2030 | Climate Change Knowledge Portal |
| | Drought | ught Hydro, Solar 🗨 🛑 Rainf | | | Long term: 2050 | |
| | Water Stress | Hydro, Solar ღ 🥌 | Water use Water supply | | | Aqueduct (World Resources Institute) |
| | Cyclone | Wind | Wind speed | | Short term: 2023-2025 | ThinkHazard! (Global Facility for Disaster Reduction and Recovery) |
| | Landslide | Hydro | Rainfall | IPCC SSP1-2.6, SSP5-8.5 | Short term: 2023-2025 | |
| | Earthquake | Hydro | Acceleration (PGA) | | Short term: 2023-2025 | |
| Chronic | Rising sea levels | Energy Infrastructure | Rainfall | | Short term: 2023-2025 Medium term: 2030 Long term: 2050 | Climate Change Knowledge Portal |
| | Rising mean Solar — Mear temperatures | | Mean temperatures | | _ | |

Remark: Excluding operations in USA, Japan, Philippines, and Taiwan



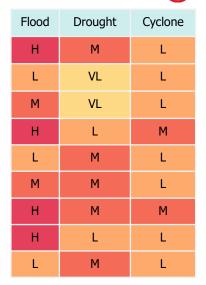
Physical Risk Baseline

"We used Think Hazard (qualitative assessment methodology) to identify hazard baseline and used CCKP (Climate Change Knowledge Portal by World Bank) to project change under SSP1-2.6 and SSP5-8.5 scenarios in 2025, 2030, and 2050 timeframes "



Solar Power

Ang Thong (1 Site)
Buriram (2 Site)
Chaiyaphum (2 Site)
Kanchanaburi (3 Site)
Lopburi (1 Site)
Nakhon Ratchasima (1 Site)
Phra Nakhon Si Ayutthaya (4 Site)
Prachinburi (2 Site)





Wind Power

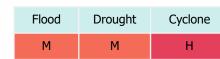
Nakhon Si Thammarat (1 Site)

| | | _ | • |
|---------|---|----|---|
| l Site) | Н | VL | Н |
| | | | |

Flood

Energy Infrastructure (Oil Terminal)

Phetchaburi (1 Site)



Drought

Cyclone

U Hydro Power

Xiang Khouang : Khoune (1 Site)

Xiang Khouang: Thathom (1 Site)

| Flood | Drought | Landslide | Earthquake |
|-------|---------|-----------|------------|
| Н | М | Н | VL |
| VL | М | Н | L |

ThinkHazard!

| Risk | Score Color Key b | y ThinkHa | zard |
|------|-------------------|-----------|----------|
| High | Medium | Low | Very low |









Saraburi (1 Site)

Drought : Medium







Flood : High



Drought : Lov



Landslide: High



Earthquake : Medium



Likelihood Criteria

| Risk | Opportunity | Likelihood |
|----------------|----------------|--|
| 4 Very High | 4 Very High | Almost Certain during the considered timeframe |
| 3 High | 3 High | Possible during the considered timeframe |
| 2 Medium | 2 Medium | Unlikely during the considered timeframe |
| 1 Low | 1 Low | Rare during the considered timeframe |



Introduction **Climate Risk Management Metrics and Targets** Governance **Strategy** bcpg Forward | Green | World

Transition Risk Assessment

| Risks Type | Climate Scenario | Risk | | Likelihood | | Potential Financial Impact | Business unit | Financial Type |
|---------------------------------|---------------------|--|-------------------|-------------------|-------------------|---|---|--|
| | | | 2023 - 2025 | 2026 - 2030 | 2031 - 2050 | | | |
| R1: Policy and regulation | STEPS IEA: NZE | Increased pricing of GHG or carbon tax Enhanced emission-reporting obligation | | | | Increased operational costs [e.g., additional expenses for new compliance / reporting standard] Write-offs, asset impairment and early retirement of existing assets due to policy changes [e.g., additional CAPEX for CCGT in US for winterization] Reduced demand for products and services resulting from regulations [e.g., carbon tax in Thailand may lead to lower oil consumption] | Solar CCGT Hydro Energy infrastructure | - OPEX - CAPEX - EBITDA - Revenue |
| R2: Technology | STEPS IEA: NZE | Costs to transition to low emission technology | | | | Write-offs and early retirement of existing assets Reduced demand for products and services [e.g., lower demand for oil] Costs to adopt new technology [e.g., additional CAPEX for adopting low-emission technology] R&D expenditures in new or alternative technologies | Solar CCGT Hydro Energy infrastructure | - OPEX - CAPEX - EBITDA - Revenue |













Very High



bcpg Forward | Green | World Introduction Governance Strategy Climate Risk Management Metrics and Targets

Transition Risk Assessment

| Risks Type | Climate Scenario | Risk | ı | _ikelihood | | Potential Financial Impact | Business unit | Financial Type |
|----------------|---------------------|--|-----------|------------|------|--|---|--|
| | | | 2023 - | 2026 | 2031 | | | |
| | | | 2025 | 2030 | 2050 | | | |
| R3: Market | STEPS IEA: NZE | Changing customer behaviors Increased cost of raw materials (e.g., water, energy) | | | | Reduced demand for products and services [e.g., lower demand for oil] Increased costs from changing input prices and output requirements [e.g., higher cost of fresh water in water-stressed areas] Re-pricing of assets [e.g., lower demand for oil or early oil peak may affect useful life of some energy infrastructure] | Solar Hydro Energy infrastructure | - OPEX - CAPEX - EBITDA - Revenue |
| R4: Reputation | STEPS IEA: NZE | Shifts in consumer preferences Increased stakeholder concerns | | | | Reduced demand for products and services [e.g., Consumers are showing a growing interest in environmentally friendly products with a focus on ESG.] Increased cost from negative impacts on workforce management and planning [new sectors e.g., CCS/CCUS may attract our employees, thereby leading to higher cost for attraction and retention] | Energy infrastructure | - OPEX - CAPEX - EBITDA - Revenue |









High



Critical



Introduction **Climate Risk Management Metrics and Targets** Governance **Strategy** bcpg Forward | Green | World

Physical Risk Assessment

| Risks Type | Climate Scenario | Risk | | Likelihoo | d | Potential Financial Impact | Business unit | Financia Type |
|----------------|--------------------------|--|-----------|-----------|------|---|---|--|
| | | | 2023 | 2026 | 2031 | | | |
| | | | - 2025 | 2030 | 2050 | | | |
| R5: Acute | SSP1 - 2.6 SSP5 - 8.5 | Increased severity of extreme weather events such as flood, drought, tropical cyclone, landslide, and earthquake | | | | Decreased company revenue Increased operating costs from maintenance and repairs, labor and equipment damage Increased insurance premiums or reduced insurability in high-risk areas Write-offs and early retirement of damaged assets or property Increased operating cost Increased CAPEX for damaged facilities | Solar Hydro Energy infrastructure | - OPEX - CAPEX - EBITDA - Revenue |
| R6: Chronic | SSP1 - 2.6 SSP5 - 8.5 | Long-term shifts in climate change (e.g., sustained higher temperature) causing sea level rise or chronic heat waves | | | | | | |







Medium High





Critical

Introduction Strategy **Climate Risk Management Metrics and Targets** Governance bcpg Forward | Green | World

Opportunity Assessment

| Opportunity | Climate Scenario | Opportunity | | Likelihoo | d | Potential Financial Impact | Strategic Response | Financial Type |
|----------------------------|---------------------|---|------|-----------|------|---|---|--|
| | | | 2023 | 2026 | 2031 | | | ,,,,, |
| | | | 2025 | 2030 | 2050 | | | |
| O1: Resource Efficiency | STEPS IEA: NZE | Use of more efficient buildingsUse of recycling | | | | Reduced operating cost [e.g., more efficient equipment leads to lower OPEX] Increased revenue from energy-efficient products [e.g., district cooling, solar rooftop] Increased value of fixed assets | Market penetration to provide Decarbonizing Solutions to clients | - OPEX - CAPEX - EBITDA - Revenue |
| O2: Energy Source | STEPS IEA: NZE | Use of low- emission sources of energy Participation in carbon market Shift towards decentralized energy generation | | | | Increased revenue from low-emission products [e.g., solar rooftop, district cooling, battery] Increased capital availability [e.g., increasing green bonds in the market] Increased investment opportunities from low-emission technology | Collaboration with strategic partners for investment in battery value chain Market penetration to provide Decarbonizing Solutions to clients | - CAPEX - EBITDA - Revenue |
| O3: Products & Services | STEPS IEA: NZE | Development or expansion of low-emission products Development of climate adaptation solutions | | | | Increased revenue from demand for low-emission products & climate adaptation solutions [e.g., battery, district cooling, solar rooftop] Better & competitive position to reflect shifting consumer preferences, resulting in increased revenue | Collaboration with strategic partners for investment in battery value chain Market penetration to provide Decarbonizing Solutions to clients | - OPEX - CAPEX - EBITDA - Revenue |











Introduction Strategy **Climate Risk Management Metrics and Targets** Governance bcpg Forward | Green | World

Opportunity Assessment

| Opportunity | Climate Scenario | Opportunity | | Likelihoo | d | Potential Financial Impact | Strategic Response | Financial Type |
|-------------------|---------------------|---|-------------------|-------------------|-------------------|---|--|--|
| | | | 2023 - 2025 | 2026 - 2030 | 2031 - 2050 | | | |
| O4: Markets | STEPS IEA: NZE | Access to new markets Use of policy incentives | | | | Increased revenue from accessing to new or emerging markets Increased diversification of financing [e.g., green bonds, sustainability-linked bonds] | Closely monitor new/future legislation related to sustainability including Taxonomy Make sure that business activities aligned with Taxonomy Continuously disclose information e.g., risk assessment, emission & mitigation plans, climate-resilient business strategies | - OPEX - CAPEX - EBITDA - Revenue |
| O5. Resilience | STEPS IEA: NZE | Adopting renewable energy and energy efficiency measures Resource diversifica tion | | | | Increased revenue from products ensuring resilience [e.g., battery, decentralized power generation] Increased reliability and ability to operate under various conditions [e.g., no major impact on revenue when fossil fuel prices rise from external factors such as wars] Increased market valuation or reputation via resilience planning [e.g., stock investors see our company as a safe choice for investment] | Continuously disclose information e.g., risk assessment, emission & mitigation plans, climate-resilient business strategies Market penetration to provide Decarbonizing Solutions to clients | - EBITDA - Revenue |





Medium High





Very High





Climate Risk Management

Enterprise Risk Management Framework & Climate-related Risks

BCPG conducts context-specific qualitative and quantitative scenario analysis of climate-related risks including both physical and transition risks in accordance with Enterprise Risk Management Framework - COSO ERM 2017.

- 1. Target Setting
- 2. Risk Identification
- 3. Risk Assessment
- 4. Risk Response

5. Monitoring & Reporting

Strategic Risk

 Impact to corporate and business strategy; i.e., business trend, technology change, demand-supply, customer retention, competition, partner loss, etc.

Operational Risk

 Impact to internal processes, people and systems; i.e., production process, operating controls, HR, IT, etc.

Financial Risk

 Changes to the economic and financial environment i.e., FX, interest rate, price, debt, tax rate and accounting problems.

Environmental and Reputational Risk

Impact to image and goodwill
 of the company; i.e., security,
 environmental concern, social
 responsibility, compliance and
 fraud risk , and complains from
 clients and stakeholders.

Climate-related Risk liked to Corporate Risk



Financial Impact Criteria

| Risk | Financial Impact* |
|----------|---|
| 4 | - Lower EBITDA, Revenue or Profit after Tax (PAT) |
| Critical | >10% |
| 3 | - Lower EBITDA, Revenue or Profit after tax (PAT) |
| High | >5% -10% |
| 2 | - Lower EBITDA, Revenue or Profit after tax (PAT) |
| Medium | >1% - 5% |
| 1 | - Lower EBITDA, Revenue or Profit after tax (PAT) |
| Low | ≤1% |

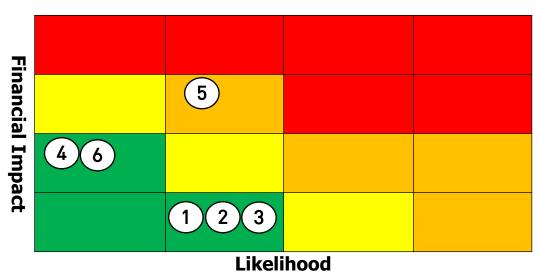
| Opportunity | Financial Impact* |
|----------------|--|
| 4 Very High | + Increase EBITDA, Revenue or Profit after Tax (PAT) >10% |
| 3 High | + Increase EBITDA, Revenue or Profit after Tax (PAT) >5% - 10% |
| 2 Medium | + Increase EBITDA, Revenue or Profit after Tax (PAT) >1% - 5% |
| 1 Low | + Increase EBITDA, Revenue or Profit after Tax (PAT) ≤1% |

*Reference: Financial Statements 2022



Risk and Opportunity Assessment during Timeframe 2023-2025

Risk Assessment



Transition Risks

R1: Policy and regulation

R2: Technology

R3: Market

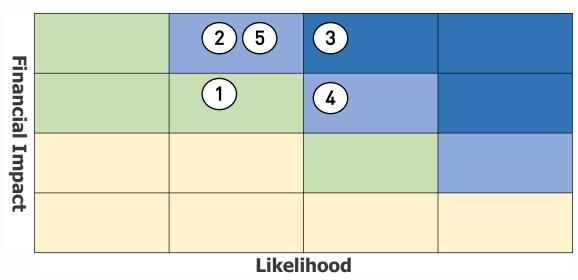
R4: Reputation

Physical Risks

R5: Acute (flood, drought, tropical cyclone, landslide, and earthquake)

R6: Chronic (sea level and temperature)

Opportunity Assessment



Opportunity

O1: Resource Efficiency

O2: Energy Source

O3: Products & Services

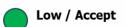
O4: Markets

O5: Resilience



Transition Risk Management (Timeframe 2023-2025)

| Issue | Climate Scenario | Business unit | Risk | Risk Level *(LxI) | Risk Response | Key risk indicators |
|---------------------------------|----------------------|---|--|----------------------|---|--|
| R1: Policy and regulation | STEPS IEA: NZE | - CCGT - Hydro - Energy infrastructure | Increased pricing of GHG or carbon tax Enhanced emission-reporting obligation | Low (2,1) | Existing: Closely monitor climate-related policy and regulation in Thailand & US Regularly conduct portfolio stress test New: Implement emission reduction programs e.g., EV adoption Establishing a systematic GHG management and GHG monitoring system | Carbon price / carbon tax Cost saving from implementing low carbon activities |
| R2: Technology | STEPS IEA: NZE | - CCGT - Energy storage - Energy infrastructure | Costs to transition to low emission technology | Low (2,1) | Existing: Monitoring technological trends and cost of new technology Launch Decarbonizing Solutions | Cost saving from implementing low carbon activities |





Medium



High



Critical



Transition Risk Management (Timeframe 2023-2025)

| Issue | Climate Scenario | Business unit | Risk | Risk Level (LxI) | Risk Response | Key risk indicators |
|-------------------|---------------------|--------------------------------------|---|---------------------|---|--|
| R3: Market | STEPS IEA: NZE | - CCGT - Energy infrastructure | Changing customer behaviors Increased cost of environmental protection | Low (2,1) | Existing: Monitor power & energy trends Launch Decarbonizing Solutions Monitor demand for domestic oil consumption | Domestic oil consumption Cost of environmental protection |
| R4: Reputation | STEPS IEA: NZE | - CCGT - Energy infrastructure | Shifts in consumer preferences Increased stakeholder concerns | Low (1,2) | New: Ensure transparency through disclosure such as TCFD report Regularly communicate with stakeholders (investors, initiatives, NGOs, business affiliates) | Zero complain ESG Rating Credit Rating |



Low / Accept



Medium



High



Critical



bcpg Forward | Green | World Introduction Governance Strategy Climate Risk Management Metrics and Targets

Physical Risk Management (Timeframe 2023-2025)

| Issue | Climate Scenario | Business unit | Risk | Risk Level (LxI) | Risk Response | Key risk indicators |
|-------------|--------------------------------|---------------------------------------|--|---------------------|--|--|
| R5: Acute | SSP1 - 2.6 SSP5 - 8.5 | - Solar - Hydro | Increased severity of extreme weather events such as flood, drought, tropical cyclone, landslide, and earthquake | High (2,3) | Existing: Prepare a natural disaster risk assessment and management plan before starting each investment Obtain insurance to cover loss of income (All Risk and Business Interruption Program) Prepare a recovery plan for natural disasters Weather forecast and closely monitor on a daily, monthly, and yearly basis as appropriate New: Develop a business continuity plan (BCP) and business continuity management (BCM) system which cover | Rainfall Water Stress |
| R6: Chronic | SSP1 - 2.6 SSP5 - 8.5 | - Hydro - Energy infrastructure | Long-term shifts in climate change (e.g., sustained higher temperature) causing sea level rise or chronic heat waves | Low (1,2) | continuity management (BCM) system which cover major operations Conduct training and create a crisis management plan to limit the consequences of an emergency Expand sources of water supply for hydro power business | Max Number of Consecutive Dry Days (Hydro, Laos only) Mean sea level (Phetchaburi, Thailand only) |















Introduction **Climate Risk Management Metrics and Targets Strategy** bcpg Forward | Green | World Governance

Opportunity Management (Timeframe 2023-2025)

| Issue | Climate Scenario | Business unit | Opportunity | Opportunity Level (LxI) | Opportunity Response | Opportunity indicators | |
|-------------------------------|---------------------|--------------------------------|---|----------------------------|--|---|--|
| O1: Resource Efficiency | STEPS IEA: NZE | - Solar - Energy storage | Use of more efficient buildings | Medium (2,3) | Existing: Promote investment in solar rooftop, battery and decarbonizing solutions Increase workforce capabilities for new low-emission technologies | Power price Carbon tax Low-emission technology cost National Energy Policy | |
| O2: Energy Source | STEPS IEA: NZE | - Solar - Energy storage | Use of low- emission sources of energy Participation in carbon market Shift towards decentralized energy generation | High (2,4) | Collaboration with strategic partners to provide climate-related products and services Develop carbon credit trading platform | Corporate Climate / Sustainability Policy | |
| 03: Products & Services | STEPS IEA: NZE | - Solar - Energy storage | Development or expansion of low- emission products Development of climate adaptation solutions | Very High (3,4) | | | |















Opportunity Management (Timeframe 2023-2025)

| Issue | Climate Scenario | Business unit | Opportunity | Opportunity Level (LxI) | Opportunity Response | Opportunity indicators |
|-------------------|---------------------|--------------------------------|--|----------------------------|----------------------|--|
| 04: Markets | STEPS IEA: NZE | - Solar - Energy storage | Access to new marketsUse of policy incentives | High (3,3) | | Power price Carbon tax National Energy Policy Corporate Climate / Sustainability Policy |
| O5: Resilience | STEPS IEA: NZE | - Solar - Energy storage | Adopting renewable energy and energy efficiency measures Resource diversification | High (2,4) | | |





Medium 🦳



High



Very High



TCFD

Metrics and Targets

BCPG's Climate Objective

BCPG marks the mid-term plan to reach Carbon Neutral in 2030 and the long-term plan to achieve Net Zero in 2050.



Reforestation



Electric Vehicle



Green Power Supply



Since 2022



Net Zero

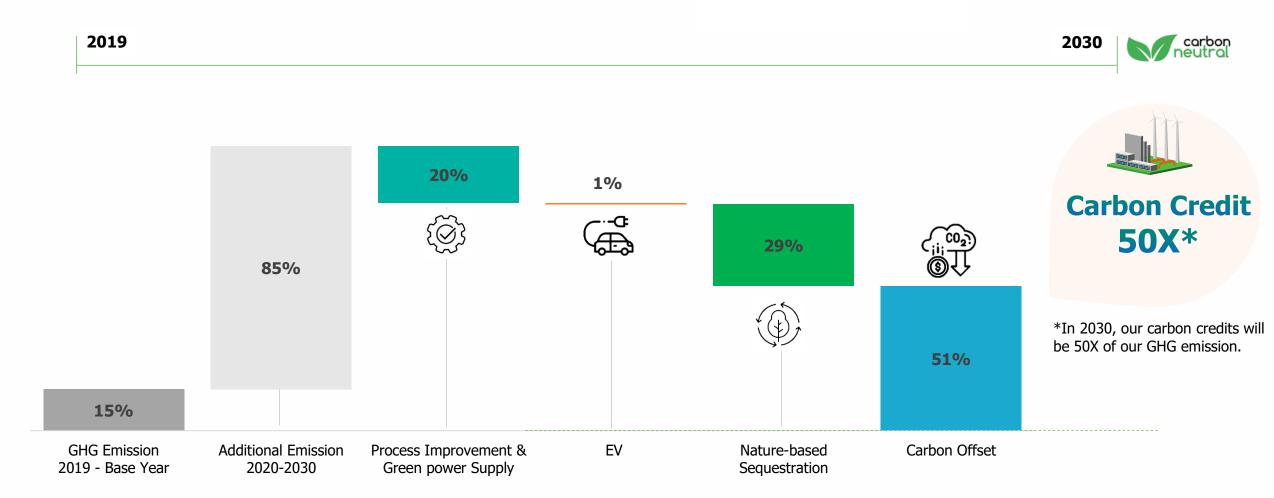
2050





Pathway to Carbon Neutral in 2030

BCPG is committed to achieve Carbon Neutral for emission Scope 1 and 2 by 2030. Four primary methods are used: process improvement & green power supply, electric vehicles (EV), nature-based sequestration through reforestation and carbon offset.







Appendices

Physical Risk Baseline by ThinkHazard Tool

We used Think Hazard (qualitative assessment methodology) to categorize hazard baseline and used CCKP (Climate Change Knowledge Portal by World Bank) to project change under SSP1-2.6 and SSP5-8.5 scenarios in 2025, 2030, and 2050 timeframes.

| | | Location | | | | | Think Hazard evaluator | | | | | | | |
|-----|--|-----------------|--------------------------|----------|----------------|-------------|------------------------|------------------|------------|-----------|---------|---------|---------|----------------|
| No. | Company Name | District | Province | Country | Technology | River flood | Urban flood | Coastal flood | Earthquake | Landslide | Tsunami | Volcano | Cyclone | Water scarcity |
| 1 | Bangchak Solar Energy (Prachinburi) Co., Ltd. | Wiset Chai Chan | Ang Thong | Thailand | Solar | н | Н | N/A | L | VL | N/A | N/A | L | М |
| 2 | Bangchak Solar Energy (Buriram 1) Co., Ltd. | Nong Ki | Buriram | Thailand | Solar | L | L | N/A | L | VL | N/A | N/A | L | VL |
| 3 | Bangchak SolarEnergy (Buriram) Co., Ltd. | Prakhon Chai | Buriram | Thailand | Solar | L | L | N/A | L | VL | N/A | N/A | L | VL |
| 4 | Bangchak Solar Energy (Chaiya- phum 1) Co., Ltd. | Bamnet Narong | Chaiyaphum | Thailand | Solar | L | М | N/A | L | VL | N/A | N/A | L | VL |
| 5 | Bangchak Solar Energy Co., Ltd. | Bamnet Narong | Chaiyaphum | Thailand | Solar | L | М | N/A | L | VL | N/A | N/A | L | VL |
| 6 | BCPG PCL. | Tha Muang | Kanchanaburi | Thailand | Solar | Н | М | N/A | L | VL | N/A | N/A | М | L |
| 7 | BSE Power (Kanjanaburi) Co., Ltd. | Bo Phloi | Kanchanaburi | Thailand | Solar | Н | Н | N/A | L | L | N/A | N/A | М | L |
| 8 | BSE Power (Kanjanaburi 1) Co., Ltd. | Bo Phloi | Kanchanaburi | Thailand | Solar | Н | Н | N/A | L | L | N/A | N/A | М | L |
| 9 | BSE Power (Lopburi) Co., Ltd. | Khok Samrong | Lopburi | Thailand | Solar | L | L | N/A | L | L | N/A | N/A | L | М |
| 10 | Bangchak Solar Energy (Nakhon Ratchasima) Co., Ltd. | Dan Khun Thot | Nakhon Ratchasima | Thailand | Solar | L | L | N/A | L | VL | N/A | N/A | L | М |
| 11 | BCPG PCL. | Bang Pa-In | Phra Nakhon Si Ayutthaya | Thailand | Solar | N/A | Н | N/A | L | VL | N/A | N/A | М | М |
| 12 | Bangchak Solar Energy Co., Ltd. | Bang Pa-In | Phra Nakhon Si Ayutthaya | Thailand | Solar | N/A | Н | N/A | L | VL | N/A | N/A | М | М |
| 13 | Bangchak Solar Energy (Prachinburi) Co., Ltd. | Bang Pa-In | Phra Nakhon Si Ayutthaya | Thailand | Solar | N/A | Н | N/A | L | VL | N/A | N/A | М | М |
| 14 | BCPG Wind (Ligor) Co., Ltd. | Pak Phanang | Nakhon Si Thammarat | Thailand | Wind | Н | Н | Н | L | VL | L | N/A | Н | VL |
| 15 | Bangchak Solar Energy (Prachinburi) Co., Ltd. | Bang Pa-In | Phra Nakhon Si Ayutthaya | Thailand | Solar | N/A | Н | N/A | L | VL | N/A | N/A | М | М |
| 16 | Bangchak Solar Energy (Prachinburi) Co., Ltd. | Kabin Buri | Prachinburi | Thailand | Solar | Н | Н | N/A | L | VL | N/A | N/A | L | L |
| 17 | BSE Power (Prachinburi) Co., Ltd. | Muang | Prachinburi | Thailand | Solar | Н | Н | N/A | L | VL | N/A | N/A | L | L |
| 18 | BCPG PCL. | Phra Phutthabat | Saraburi | Thailand | Solar | М | L | N/A | L | Н | N/A | N/A | L | М |
| 19 | Asia Link Terminal Co., Ltd. | Ban Laem | Phetchaburi | Thailand | Infrastructure | М | L | Н | L | VL | L | N/A | н | L |
| 20 | Nam San 3A | Khoune | Xiang Khouang | Lao PDR | Hydro | VL | Н | N/A | VL | Н | N/A | N/A | Н | L |
| 21 | Nam San 3B | Thathom | Xiang Khouang | Lao PDR | Hydro | Н | VL | N/A | L | Н | N/A | N/A | Н | L |

| Risk Score Color Key by ThinkHazard | | | | | | | |
|-------------------------------------|--------|-----|----------|--|--|--|--|
| High | Medium | Low | Very low | | | | |



TCFD Index

| Category | TCFD Recommendation | Page | | | | |
|------------------------|---|-------------|--|--|--|--|
| Governance | a) Describe the board's oversight of climate related risks and opportunities | | | | | |
| | b) Describe management's role in assessing and managing climate related risks and opportunities. | | | | | |
| Strategy | a) Describe the climate-related risks and opportunities the company has identified over the short, medium, and long term. | | | | | |
| | b) Describe the impact of climate-related risks and opportunities on the company's businesses, strategy, and financial planning. | — 9-19 | | | | |
| | c) Describe the resilience of the company's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario. | _ | | | | |
| Risk Management | a) Describe the company's processes for identifying and assessing climate-related risks. | | | | | |
| Management | b) Describe the company's processes for managing climate-related risks. | | | | | |
| | c) Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the company's overall risk management. | _ | | | | |
| Metrics and Targets | a) Disclose the metrics used by the company to assess climate-related risks and opportunities in line with its strategy and risk management process. | | | | | |
| | b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 GHG emissions and the related risks. | 30-31 | | | | |
| | c) Describe the targets used by the company to manage climate-related risks and opportunities and performance against targets. | _ | | | | |



TCFD Glossary and Abbreviations

| Glossary | Description | | | | | |
|--|--|--|--|--|--|--|
| Board of Director (or Board) | Refers to a body of elected or appointed members who jointly oversee the activities of a company or organization. Some countries use a two-tiered system where "board" refers to the "supervisory board" while "key executives" refers to the "management board." | | | | | |
| Climate – Related Opportunity | Refers to the potential positive impacts related to climate. change on an organization. Efforts to mitigate and adapt to climate change can produce, opportunities for organizations, such as through resource efficiency and cost savings, the adoption and utilization of low-emission energy sources, the development of new products and services, and building resilience along the supply chain, The Climate-related opportunities will vary depending on the region, market, and industry in which an organization operates. | | | | | |
| Climate – Related Risk | Refers to the potential negative impacts of climate change on an organization. Physical risks emanating from climate change can be event-driven (acute) such as increased severity of extreme weather events (e.g., cyclones, droughts, floods, and fires). They can also relate to longer-term shifts (chronic) in precipitation and temperature and increased variability in weather patterns (e.g., sea level rise). | | | | | |
| Governance | Refers to "the system by which an organization is directed and controlled in the interests of shareholders and other stakeholders." "Governance involves a set of relationships between an organization's management, its board, its shareholders, and other stakeholders ,Governance provides the structure and processes through which the objectives of the organization are set, progress against performance is monitored, and results are evaluated. | | | | | |
| Green House Gas (GHG) Emission Scope levels | Scope 1 refers to all direct GHG emissions. Scope 2 refers to indirect GHG emissions from consumption of purchased electricity, heat, or steam. Scope 3 refers to other indirect emissions not covered in Scope 2 that occur in the value chain of the reporting company, including both upstream and downstream emissions. Scope 3 emissions could include: the extraction and production of purchased materials and fuels, transport-related activities in vehicles not owned or controlled by the reporting entity, electricity-related activities (e.g., transmission and distribution losses), outsourced activities, and waste disposal. | | | | | |

Source: Recommendations of the Task Force on Climate-related Financial Disclosures (2017), website//www.fsb-tcfd.org/publications/



Physical Scenario and Definition

bcpg Forward | Green | World

| Risk Type | Physical Risk | Indicator | Definition | Source |
|-----------|--------------------------|---------------------------|---|--------------------------------------|
| Acute | Flood | Rainfall | The overflowing of the normal confines of a stream or other body of water, or the accumulation of water over areas not normally submerged. Floods include river (fluvial) floods, flash floods, urban floods, pluvial floods, sewer floods, coastal floods and glacial lake outburst floods. | Climate Change Knowledge Portal |
| | Drought | Rainfall | a period of abnormally dry weather long enough to cause a serious hydrological imbalance. Drought is a relative term; therefore, any discussion in terms of precipitation deficit must refer to the precipitation-related activity that is under discussion. | Climate Change Knowledge Portal |
| | Water Stress | Water use Water supply | Water stress measures the ratio of total water demand to available renewable surface and groundwater supplies. Water demand include domestic, industrial, irrigation, and livestock uses. Available renewable water supplies include the impact of upstream consumptive water users and large dams on downstream water availability. Higher values indicate more competition among users. | Aqueduct (World Resources Institute) |
| | Cyclone | Wind speed | Cyclones, a non-frontal storm system that is characterized by a low-pressure center, spiral rain bands and strong winds. Usually, it originates over tropical or subtropical waters and rotates clockwise in the southern hemisphere and counter-clockwise in the northern hemisphere. | Think Hazard |
| | Landslide | Rainfall | A landslide is the movement of natural soil and rocks controlled by gravity. Landslides can involve dry mass or wet mass. Dry mass movements can be triggered by violent geophysical hazards such as earthquakes and volcanic eruptions, but they can also be a consequence of water scarcity and soil erosion. Differently, wet mass movements (mudslides) are more often caused by heavy precipitation or ice melting. Landslides are associated with other hazards such as floods, tropical cyclones, and severe local storms. | Think Hazard |
| | Earthquake | Acceleration (PGA) | Earthquakes usually happens along a fault plate, the border between tectonic plates. Earthquakes often trigger landslides, tidal waves and tsunamis. Powerful aftershocks frequently occur, causing further damage and increasing psychological stress. | Think Hazard |
| Chronic | Rising sea levels | Rainfall | Rising sea levels is increases in the height of the sea with respect to a specific point on land. | Climate Change Knowledge Portal |
| | Rising mean temperatures | Mean temperatures | Global temperature is an average of air temperature recordings from weather stations on land and sea as well as some satellite measurements. Extreme temperature events (i.e., maximum, minimum) may have short-term durations of a few days with temperature increases of over 5°C above the norma temperatures. | Climate Change Knowledge Portal |





Energizing a Greener and Sustainable World

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