



DRIVING BUSINESS TO SUSTAINABILITY

CORPORATE SUSTAINABILITY

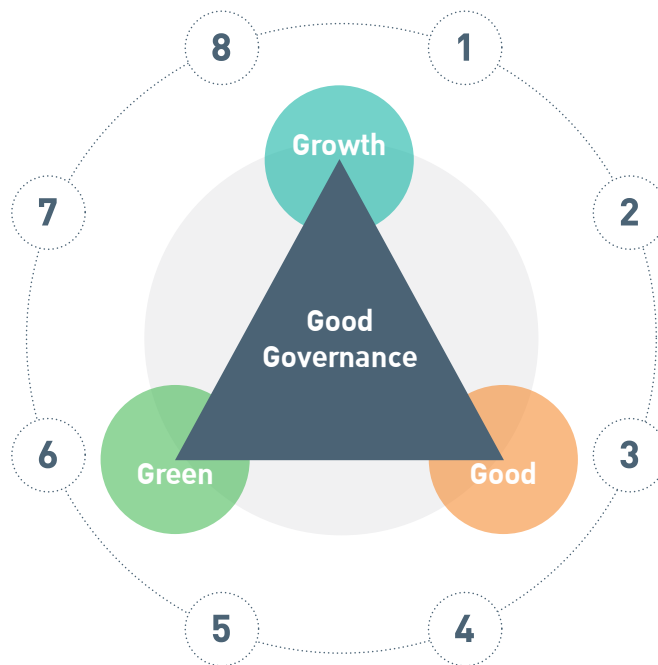
With the aspiration to become a leading sustainable energy company focusing on renewable technology, BCPG has developed sustainability framework with the reference to SDGs and aligned its business strategies with long-term vision to strive for a sustainable corporate culture across the organization and grow the business responsibly under the foundation of good governance and effective risk management in connection with value creation on 3G dimensions: Growth – economic value, Good – social value, and Green – environmental value.

BCPG recognizes the importance of all stakeholder groups in its value chain. Thus, BCPG has developed a governance structure to strengthen its transparency and respect for human rights in tandem with BCPG's sustainability framework as well as compliance practices and industry standards, reflecting its commitments and principles of creating positive impacts for the environment and society.



POLICY AND SUSTAINABILITY TARGETS

BCPG has developed the sustainable business development policy to oversight business activities and direction for sustainable growth as well as eliminating risks in abuses on matter related to sustainability throughout value chain. The policy has been conducted under the foundation of 3G – Growth, Good, and Green – regarding its sustainability framework with the aims to value customers and stakeholders as well as expansion of business portfolio both nationwide and international diversification in sustainable approach.



1. Good corporate governance

Operate and manage businesses with transparency and good governance, a stringent anti-corruption policy and comprehensive risk management of the entire value chain.

2. Collaboration with all sectors to promote sustainable development

Both in terms of law and regulation, strengthen public awareness, collaborate with government sector, business sector, community, and civil society to promote sustainable development through the encouragement of law and regulation formulation, and reinforce awareness on environment and energy conservation.

3. Enhancing community energy security

Promote and support development of the local economy and community development with a focus on shared value creation through assistance on providing community accessibility to sustainable and reliable energy sources.

4. Minimizing all environmental impacts

Minimize all environmental impacts of the businesses and integrate the move with the principle of circular economy to reduce resource consumption and waste.

5. Responses to customers' needs and protection of customers' private data

Manage responses to customers' needs with the highest possible efficiency, protect individual data privacy including online with state-of-art technology and the best possible data security systems.

6. Creative business growth with environmentally friendly innovations

Consistently develop businesses with creative green innovations and technology compatible with the business strategy of maximizing value.

7. Developing organizational capability throughout the value chain

Increase organizational competitiveness and sustainable growth through development of employees, promotion of business partnership and development of competitive advantage for BCPG's joint ventures and contractors across the value chain.

8. Respect for diversity and safeguarding of human rights

Strive to become a reputed organization that embraces diversity and operates with zero discrimination

In 2021, there are three key changes made to the Good Corporate policy in order to strengthen governance mechanism as well as placing strong emphasis on corporate sustainability as the following topics: 1) Revision of corporate governance and compliance practices, 2) Revision of anti-corruption policy, and 3) Contribution in sustainable development and corporate social responsibility.

To further strengthen BCPG’s transparency and accountability, BCPG has in place whistleblowing practice, providing everyone an anonymous and accessible channel to report suspicious actions, including human rights abuses and discrimination in workplace, on BCPG’s website. all reports are directly monitored by the Internal Audit Department and will be reviewed by the management on a monthly basis ensuring that everyone’s voice is heard. In 2021, there has been no reported whistleblowing cases.

BCPG’s business operation as an energy provider through renewable technologies is a vital strategy against the current climate crisis. Through its operation, BCPG is an advocate for the Nationally Determined Contributions (NDCs) made by Thailand. Overall, BCPG is one of the key renewable energy players in Thailand, playing a major role in climate action while reliably delivering clean energy to support the Thai economy and creating a blueprint for the transformation of the energy sector both domestically and internationally.

Vital to these commitments is the organization’s effort in decarbonization through carbon reduction programs and carbon offsets. In doing so, BCPG has developed the long-term strategy to achieve Net Zero in accordance with UNFCCC. BCPG always takes the impact of climate change into its consideration, through ‘BCPG Journey to Net Zero’ roadmap.

	Carbon neutral	Net Zero
	Short-term target	Long-term target
	Become carbon neutral by 2022	Achieve Net Zero by 2026 to 2027
  	Oversea footprint becomes carbon neutral by 2027 to 2028	In 2030, All BCPG’s operations* will meet Net Zero target

* Included only subsidiaries owned by BCPG more than 50% of total equity.

In progress of achieving Net Zero by 2030, BCPG has established several initiatives to support the roadmap both in short-term and long-terms, including switching to electric vehicles within BCPG’s operations, campaigns on the energy efficiency, reforestation, and exploration of energy storage and carbon capture technologies in the future.

Furthermore, BCPG seeks potential collaboration with partners from diverse sectors such as real estate and government to increase access to renewable energy for all types of consumers. For instance, as a part of ERC Sandbox contributed by the Energy Regulatory Commission of Thailand, BCPG is in collaboration with Sansiri PCL for the prototype for P2P (peer-to-peer) power trading scheme in solar energy by employing blockchain technology at T77 project, this partnership was launched at end of 2020 and currently is in operation. There was also a project to develop a smart city model, which was a collaboration between BCPG, its subsidiaries, Chiang Mai University, and partners, with an aim to develop Chiang Mai University into Thailand's smart city model for clean energy. This model emphasizes technological integration for further development and to solve problems, especially those of the environment. Both projects were selected to participate in the ERC Sandbox Innovation Testing Program.



STAKEHOLDER MANAGEMENT IN VALUE CHAIN

MATERIALITY ASSESSMENT FROM STAKEHOLDERS' PERSPECTIVE

In 2021, BCPG worked on the designed approach to identify issues that are material to the organization by gathering inputs from stakeholder surveys and analyzing relevant information to understand the current issues of interest. The material issues are then prioritized under the consideration of stakeholders' perspectives and BCPG's economic, environmental, social impacts in the process called "Materiality Assessment" which is implemented in accordance with the GRI Sustainability Reporting Standards.

The Materiality Assessment was conducted through the following steps:

1. Identification

To understand the organization's materiality, BCPG takes all matters related to business operation into consideration such as market research, emerging risks and opportunities in energy sector, stakeholder's expectations, and its own strategy to ensure that relevant sustainability aspects are covered.

2. Prioritization

For better focus on identified issues, this process contains the implication of both sides, BCPG and stakeholders, to explicitly indicate the importance of each identified issues by evaluation of survey results and considering the importance of each issues based on an average weight from perspectives of both side influencers over each identifies issues. The objective is to establish a clear vision and a foundation on which BCPG can develop its sustainability strategy and targets.

3. Validation

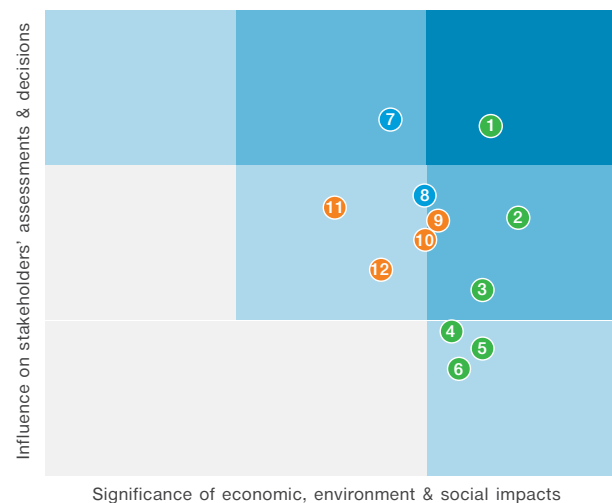
To ensure the validity of the materiality, the Corporate Strategy and Sustainability team would review and validate the result of the materiality assessment. This is an important step in terms of understanding stakeholders' expectations and concerns and it also allows the company to understand the importance of the materiality issues and respond to each issue accordingly.

4. Review & Evaluation

To operate the organization sustainably in long term, it is necessary for the organization to review and reevaluate BCPG's expectations of stakeholders and update emerging issues in an appropriate timeframe in order to ensure the material issues are up-to-date and to prepare for unexpected events.

MATERIALITY MATRIX

The Materiality Assessment resulted in below matrix, shown on one axis the internal perspective of economic, environmental and social impacts of BCPG's operations, and another axis external perspective on from stakeholders' expectations and concerns. The main objective is to observe material issues that BCPG needs to take into consideration thoroughly to further develop its own strategy and leverage the organization's position to drive sustainable growth throughout value chain.



1. Operational Eco-Efficiency
2. Climate Strategy, incl GHG Emissions & Energy Management)
3. Waste Management and Circular Economy
4. Transmission & Distribution
5. Environmental Performance Disclosure
6. Air Quality/Pollution Management
7. Innovation for Environment and Society
8. Corporate Governance
9. Community Involvement
10. Human Capital Development, incl Talent Attraction & Retention
11. Stakeholder Engagement
12. Labor and Human Rights

Through the assessment, BCPG identified 13 material issues over its business activities, operations and growth:



Sustainability Integration into BCPG's focus

To align with its 5-year strategy plan, BCPG has developed the structural outline of principles of action to encourage value creation of sustainability culture throughout the organization. The strategic framework below contains three key elements to successfully accomplish its sustainability objectives, comprising of material issues considered on an annual basis that are subject to BCPG and stakeholders' perspectives, enabled by regulations and internal contribution, and BCPG's strategy to explore more renewable energy opportunities and grow as a leading energy organization.

	Governance	Growth	Green	Good
Objective	Trusted energy producer	Grow together along value chain	Mitigate adverse environmental impact	Better adaptive to climate change and people care along value chain
Material issues	- Corporate governance - Environmental performance disclosure - Environmental policy & manage systems	- Innovation for environment and society - Human capital development, incl talent attraction & retention - Transmission & distribution	- Climate strategy, incl GHG emissions and energy management - Operational eco-efficiency - Waste management and circular economy - Air quality/pollution management	- Community involvement - Stakeholder engagement - Labor and human rights
External influences & Internal controls				

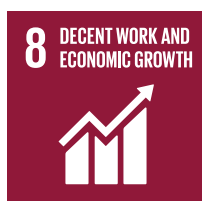
Contribution to SDGs

In 2021, BCPG aims to develop its strategy to contribute to the transition to low carbon society by promoting operations and activities in accordance with SDGs that support the increase of access to clean and affordable energy and delivering positive impacts for environment and society through job creation and innovation

Main



BCPG intends to increase the proportion of investment in renewable energy as demonstrated in its 5-year strategy. While awareness on increase of clean energy consumption at individual sentiments is emerging across the globe, BCPG plays its role as leading renewable energy company by delivering reliable renewable energy to consumers and maintaining power plant efficiency at its highest capacity continuously, on the other hand, provision of quality education about renewable energy to communities is also included in BCPG's focus.



Key to becoming a sustainable business is the effort to build extensive involvement in all parties' activities related to the organization. BCPG commits to provide a fair treatment for all workers in terms of safe workplace and rights in accordance with legislation they deserve. Moreover, BCPG recognizes the value creation for its stakeholders is important for business growth, thus, BCPG has included increase of local employment at site-level operations as one of company's goal to enhance people's quality of life and contribute the national economic growth in the long term.



To advocate for national and international strategic plan, BCPG places special emphasis on supporting the development of infrastructure (i.e., transmission lines) and the advancement of energy technologies (i.e., battery for decarbonization) by allocating significant portion of contribution on energy innovation.



With its ambition to create a sustainable future for all, BCPG collaborates with potential partners in contribution to smart city and decarbonization projects that new methods for optimizing energy consumption have been implemented and/or provide a pathway for new energy trading schemes in the future. The new era of prosumer is a critical step to achieving sustainable community as planned regarding international framework.



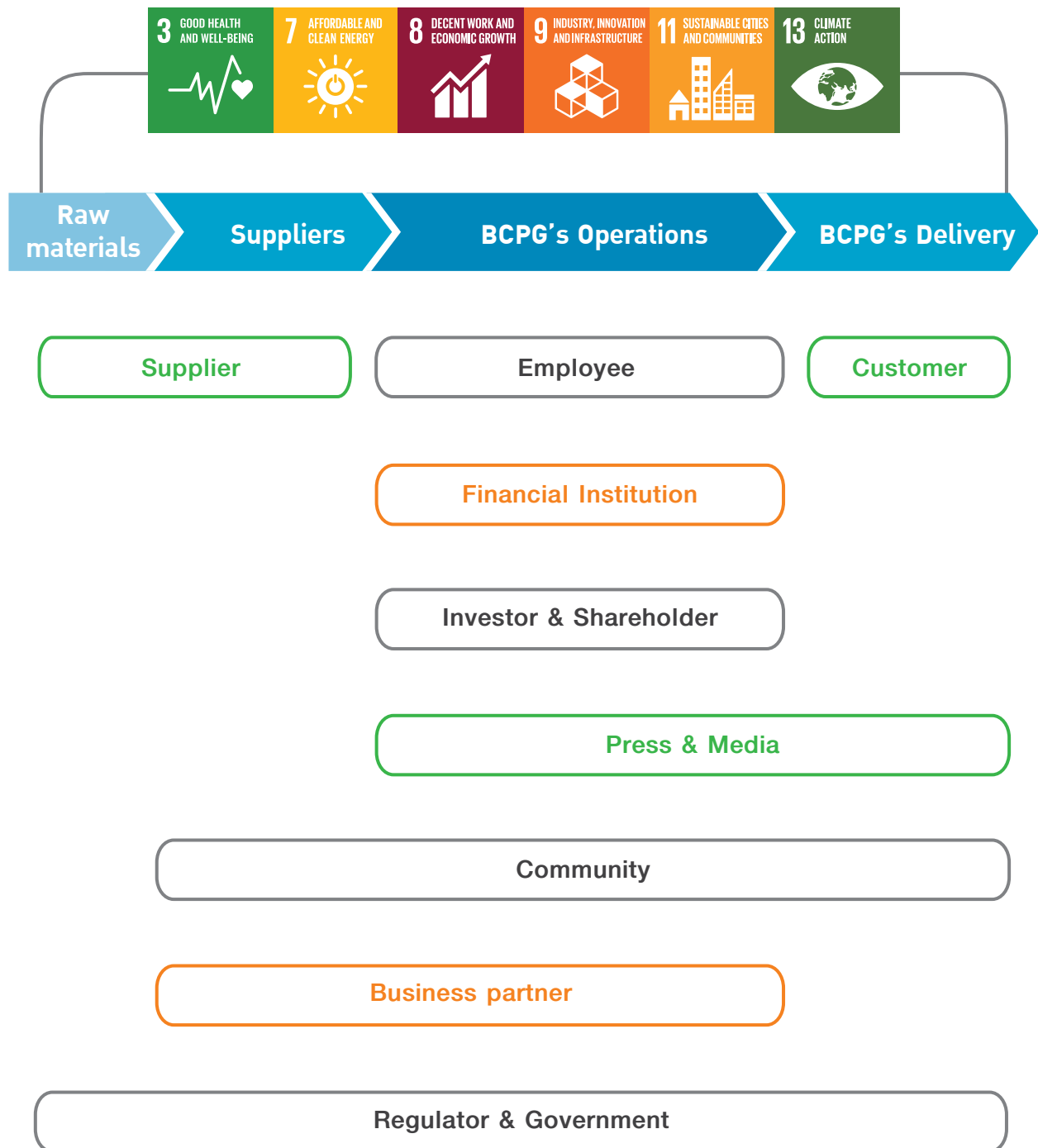
The move towards 'Net Zero' target encourages greater growth in energy sector with main objective to replace fossil fuels used in power generation process. In process of transition, BCPG has implemented the appropriate management approach for mitigating climate-related risks, both directly and indirectly, effecting all operations under BCPG premise.

Supplementary



BCPG makes it a priority to provide a safe workplace for all workers through the application of strong safety foundation, adequate measures, and immediate corrective actions. To ensure that all parties related to BCPG premises are provided a decent treatment in any aspects whether health workforce or environmental and social responsibility, BCPG manages every condition to meet regulatory standards.

CREATED STRATEGIC VALUE THROUGH BCPG'S VALUE CHAIN.



STAKEHOLDER ASSESSMENT BASED ON VALUE CHAIN

BCPG recognizes the importance of stakeholders in all aspects of its value chain as key drivers in forming a sustainable business across operations. Thus, BCPG has made it a priority to maintain long-term trust as well as build good relationship with stakeholders through exceptional contribution and engagement activities, coupled with performing stakeholder engagement survey on BCPG's sustainability to ensure that all concerns and interests have been placed into company's consideration.

In 2021, BCPG identified nine groups of stakeholders, including Employee, Customer, Supplier, Shareholder & Investor, Business partner, Community, Regulator & Government, Financial Institution and Press & Media.





Stakeholders	Issues of Interests	Actions & Responses
Employee	• Transparency • Business growth with environmental and social responsibility • Labor and Human rights including occupational health and safety • Workplace environment • Skill development • Career path and stability including performance-based evaluation, and reward and recognition • Fair compensation, welfare, and benefits	• Communicate business code of conduct and strictly adhere to its implementation • Communicate with employees about current business achievement • Engage/Collaborate with employees through sustainability-related projects, e.g., environmental project (waste segregation), CSR volunteering project • Establish environmental campaigns for employees for awareness raising, e.g., encourage use of recyclable/ recycled materials with rewarding through application Wellios • Ensure compliance with Thai labor standards and treat employees with respect following human rights principles • Enact occupational health and safety policy and relevant procedure to mitigate work hazard and maintain zero injuries • Establish program(s) for human capital development and provide necessary training for capacity development and ensure work safety • Retain good and talented employees by appraisal, reward and recognition • Provide employees with fair compensations and benefits • Promote channels for employees to submit opinions or complaints
Customer	• Business ethics, transparency, and compliance • Business growth • Cybersecurity • Climate-related opportunities and environmental concerns • Energy Innovation management (energy innovation) • Safe working environment • Readiness of information and response to customer's enquiry, incl information accuracy	• Ensure compliance with applicable laws and regulations relevant to business operation • Inspect the operations of the business lines in the Company • Enact data protection management in compliance with Personal Data Protection Act B.E. 2562 and continuously maintain data protection and storage in accordance with ISO 27001 standard (Information Security Management System) • Provide necessary training for employees on information security awareness and establish reporting channel for receiving for suspicious email • Maintain implementation of digital energy management and inspection of consumption of electricity consumption by the Energy Audit • Maintain implementation of safety management in accordance with ISO 45001 standard • Cooperate for responding to enquiries with accurate information and timely manner

Value Creation

- Maintain trust and long-term relationships with employees
- Provide safe working environment for employees, incl minimization of work-related accidents/injuries
- Raise employees' awareness on environmental management and sustainability
- Build capacity for employees in renewable energy to help the society transition into cleaner energy
- Provide career promotion and stability

Engagement & Communication Approaches

- Employee engagement survey
- Company-wide communication between HR Department and employees
- Meeting the Management (Talk to You activity)
- Appointment of Welfare Committee
- Annual report and company website
- Complaint and whistleblowing channels
<https://www.bcpvgroup.com/en/corporate-governance/whistleblowing-channel>

- Deliver quality product and services as expected
- Maintain positive relationship and long-term trust with customers
- Strengthen cybersecurity in energy sector

- Customer satisfaction survey
- Customer visits and meetings
- Mutual agreement in writing
- Annual report and company website
- Complaint and whistleblowing channels
<https://www.bcpvgroup.com/en/corporate-governance/whistleblowing-channel>

Stakeholders	Issues of Interests	Actions & Responses
Supplier & Contractor	• Business ethics and transparency • Business growth • Labor and Human rights • Environmental awareness	• Establish the standardized supplier code of conduct and communicate to suppliers • Equally and fairly as stated in Business Codes of Conduct and maintain relationship with suppliers, incl rapid response and promotion of human rights and labor affair • Establish and enact sustainable supply chain to better mitigating risk and growing together with suppliers, i.e., registration for approved vendor list (AVL), supplier risk assessment and evaluation • Development partnership projects including capacity building through training
Shareholder & Investor	• Business ethics and transparency • Business growth (e.g., direction, progress of project in pipeline) • Business performance (e.g., shareholder returns) • Environmental and social responsibility on business operation • Energy innovation	• Strictly comply with the business code of conduct and ensure compliance with applicable laws and regulations relevant to business operation • Disclose the proper information with transparency and in timely manner. The disclosed information is easy-to-use and easily accessible on company website, i.e., factsheet, company profile, operation results. • Appoint an investor relations department to accommodate proper liaison with shareholders and investors and cooperate for responding to enquiries with accurate information and timely manner • Disseminate opinions and questions received from investors to the management • Make the payment of dividends to the shareholders appropriate to the operating results and BCPG's policy • Explore clean and affordable energy investments
Business Partner	• Business ethics and transparency • Business growth – direction in renewable energy • Business operation and performance including environmental and safety management, and social consideration	• Strictly comply with the business code of conduct and ensure compliance with applicable laws and regulations relevant to business operation • Cooperate with relevant governmental authority regarding energy policy and practice • Collaborate in business development, e.g., expansion of energy storage business in potential areas • Collaborate in innovation development for better performance, e.g., improvement of battery storage for enhancing performance

Value Creation

- Maintain positive relationship and long-term trust with suppliers
- Promote supplier's sustainable development
- Minimize environmental and social impacts throughout value chain

Engagement & Communication Approaches

- Supplier meeting
- Supplier assessment and evaluation, incl auditing program
- Supplier training
- Annual report and company website
- Complaint and whistleblowing channels (<https://www.bcpgroup.com/en/corporate-governance/whistleblowing-channel>)

- Adhere to good corporate governance principles
- Assist in driving disclosure transparency in the market
- Maintain relationship with confidence and long-term trust with shareholders and investors
- Support movement and dynamic in green investment or sustainable finance
- Deliver strong performance for shareholder/investors who support clean energy

- Meeting between BCPG and investors/shareholders, i.e., analyst meeting (quarterly), roadshow, company visit, conference call, Annual General Meeting (AGM), SET Opportunity Day, management discussion and analysis (MD&A), etc.
- Discuss, analyze and respond to enquiries and comments through investor relation activities/channels, i.e., teleconference, email, Facebook, website, etc.
- Disclose information to SET
- Annual report and company website
- Complaint and whistleblowing channels (<https://www.bcpgroup.com/en/corporate-governance/whistleblowing-channel>)

- Adhere to good corporate governance principles
- Maintain relationship with confidence and long-term trust with business partners
- Contribute to Thailand energy transition to clean energy and to regional expansion of affordable renewable energy
- Contribute to advocacy of future demand of renewable energy

- Regular business meeting
- Annual report and company website
- Complaint and whistleblowing channels (<https://www.bcpgroup.com/en/corporate-governance/whistleblowing-channel>)

Stakeholders	Issues of Interests	Actions & Responses
Community	• Business impacts on the community and the environment • Business commitment on local employment • Engagement of community and business including supporting communities' activities	• Strictly comply with applicable environmental and safety laws and regulations relevant to business operation • Hire local people in the surrounding communities near the power plants • Support community activities in forms of monetary or non-monetary as appropriate, such as sports activities and educational activities on a regular basis as well as supporting to mitigate the COVID-19 educate youth in vicinity for renewable energy and its impacts • Share resource for creating benefit/value for surrounding communities, e.g., share vacant area in power plant premise with nearby communities for agricultural purpose
Financial Institution	• Business ethics and transparency • Business compliance including environmental and safety management on business operation and loan agreement • Business awareness on social consideration including stakeholder participation • Risk management	• Strictly comply with conditions of loan agreements and other specific conditions issued by the financial institutions • Strictly comply with the rules and regulations of public finance institutions • Cooperate for responding to enquiries with accurate information and timely manner
Regulator & Government	• Compliance with applicable laws and regulations • Business ethics and transparency • Environmental and social consideration for business direction • Stakeholder participation • Collaboration with governmental sector in supporting development of energy, e.g., policy advocacy, provision of accurate information	• Strictly comply with the business code of conduct • Strictly comply with applicable laws and regulations relevant to business operation • Provide, respond and clarify with accurate information within determined period • Operate business with due care and minimize potential environmental and social impacts, i.e., maintain implementation of environmental management in accordance with ISO 14001 standard and safety management in accordance with ISO 45001 standard • Inspect the operations of the business lines in the Company • Cooperate and support government authorities in order to promote environmental and social operations, e.g., provision of technical expertise and exchange knowledge to improve energy policy and practice
Press & Media	• Information transparency and disclosure, e.g., business growth (direction/expansion/ progress), awareness on social consideration • Communication channels – easily accessible and convenient, prompt response	• Disclose up-to-date information through company's communicating platforms • Appoint a corporate communication department to accommodate proper liaison with press and media • Respond to enquiries with accurate information and timely manner

Value Creation

- Minimize impacts from business operation to community and environment
- Maintain relationship and long-term trust with surrounding communities, incl community cooperation for future opportunity
- Contribute to reduction of country's unemployment rate

Engagement & Communication Approaches

- Engage local community by local staff working at operating site, such as village chief, community representatives
- Community opinion survey either annual survey or for specific purpose, e.g., prepare/update code of principle (COP)
- Annual report and company website
- Complaint and whistleblowing channels (<https://www.bcpvgroup.com/en/corporate-governance/whistleblowing-channel>)

- Adhere to good corporate governance principles
- Maintain relationship with confidence and long-term trust with financial institutions
- Support movement and dynamic in sustainable finance
- Maintain a healthy balance of the finance and debt markets

- Meeting between BCPG and financial institutions, i.e., meeting with management, meeting with analyst, regular discussion (physical at BCPG's premise or online platform where appropriate)
- Prepare contracts and agreements in writing
- Annual report and company website
- Complaint and whistleblowing channels (<https://www.bcpvgroup.com/en/corporate-governance/whistleblowing-channel>)

- Adhere to good corporate governance principles
- Maintain positive relationship with confidence and gain both long-term trust with regulators and public trust
- Reduce of potential conflict with regulators through accurate and transparent information
- Assist in driving disclosure transparency contribute to the calibration of national energy policy and practice as well as affordable of cleaner energy
- Contribute to the country's NDCs in GHG emissions

- Meeting and visit in various occasions
- Business visit
- Engage in and support projects of governmental authorities
- Response of information upon request
- Annual report and company website
- Complaint and whistleblowing channels (<https://www.bcpvgroup.com/en/corporate-governance/whistleblowing-channel>)

- Maintain positive relationship with media and gain public trust
- Provide easy access to accurate and factual information for the public
- Assist in raising standards for disclosure transparency
- Promote corporate sustainability in energy sector

- Press release on regular basis
- Media interviews and meeting, e.g., interview management for interviewing operation projects or business situation
- Business visit
- Organizing activities for media relationship, e.g., media visit on special occasions, annual media thank you party, etc.
- Annual report and company website
- Complaint and whistleblowing channels (<https://www.bcpvgroup.com/en/corporate-governance/whistleblowing-channel>)

SUSTAINABILITY IN ENVIRONMENT AND ENERGY ASPECT POLICY AND ENVIRONMENT & ENERGY PRACTICE

ENERGY MANAGEMENT

With strong ambition to becoming a leading renewable energy company, BCPG recognizes the importance of its role to driving the transition to low carbon society through replacing fossil fuels by expanding business in renewable energy, increasing opportunities and accessibility for all consumers to have an alternative option in energy sources.



As an already low carbon emitting energy producer, BCPG places a special emphasis on energy management, particularly the impact from energy consumption. The boundary of energy consumption within BCPG's controls can be identified under couple scope of operations, comprising office building and power production plant. In 2021, BCPG has developed the strategic planning to reduce energy consumption within organization in alignment with its net-zero emissions target. The following approaches are conducted with its objective to optimize energy efficiency performance for the organization.

Electric Vehicles Roll-Out

The emissions reductions from the adoption of a new transportation technology is one of the procedures for BCPG to reduce its energy consumption. Thus, BCPG has explored the optimization of energy consumption by phasing-out all internal combustion engine vehicles within operations in favor of electric vehicles. The initiative is to be executed over next year to ensure all operations in Thailand into carbon neutral.

Energy Efficiency

The use of electricity in office buildings is the main energy source of BCPG. The Group has implemented measures to reduce electricity consumption by encouraging employees to turn off electrical appliances when they are not in use, controlling the use of electrical systems and air conditioning during specified business hours, as well as choosing energy-efficient appliances and properly adjusting the temperature.

Energy management is one of BCPG's methods to achieve its 2030 target. According to BCPG's calculation, in order to achieve the Net-Zero scenario, BCPG needs to reduce 3% percent of its GHG emission through energy management programs as mentioned above.

ENVIRONMENTAL PERFORMANCE

Corporate Carbon Footprint

BCPG concerns negative impact from business activities on environment and recognizes that GHG Emissions are a major contributor to climate change. Therefore, BCPG monitors the amount of carbon emission from its operations every year.

For the boundary of carbon emission reporting, the company monitors carbon emissions that occurs from all projects locating on Thailand. The carbon footprint is reported by the control approach and covers majors GHG gasses as following : Carbon dioxide (CO₂), Methane (CH₄), Nitrous Oxide (N₂O), Hydrofluorocarbons (HFCs), Perfluorocar

bons (PFCs), Sulphur hexafluoride (SF₆) and Nitrogen Tri-fluoride (NF₃). The Carbon Footprint report follows “GHG Protocol Corporate Accounting and Reporting Standard”, World resources Institute. In additions, in this year, the company expands its reporting boundary to the Scope 3 emissions that covers the impacts from its value chain. The Scope3 Emissions reporting also follows GHG Protocol Corporate Value Chain Standard”, World resources Institute. Moreover, BCPG has paving the way to ZERO emission by means of EVs replacing, reforestation and some possible clean technology. The company defines the operation on 2021 as the base year for carbon footprint calculation. The carbon emissions accounting from business activities on 2021 is as follows:

Carbon Emissions from Scope 1 and Scope 2

Carbon Emissions (unit : ton CO ₂ eq)	2021
Direct Emissions	80
Mobile Combustion from vehicle using on Plants	-
Carbon dioxide CO ₂	79
Biogenic CO ₂	5
Methane (CH ₄)	-
Nitrous Oxide (N ₂ O)	1
Other Biogenic (CH ₄ and N ₂ O)	-
Indirect Emission (Electricity Consumption)	1,416
(Gross Location-based Scope 2 GHG Emissions)	1,416
Carbon dioxide CO ₂	1,416
Total Scope 1 and Scope 2 Emissions	1,496

Remark :

1. Emission Factor for Gasoline and Diesel refers to IPCC 2006, Vol.2, Ch3, Table 3.2.1
2. Emission Factor refers to EPPO, Energy Statistics, Table 9.1-15: CO₂ Emission per kWh (2021) [http://www.eppo.go.th/index.php/th/energy-information/static-energy/static-co2?orders\[publishUp\]=publishUp&issearch=1](http://www.eppo.go.th/index.php/th/energy-information/static-energy/static-co2?orders[publishUp]=publishUp&issearch=1)
3. Global Warming Potential : GWP refers to AR4

Carbon Emission from Value Chain

BCPG is concerning on emissions causing from our value chain and minimizes its impact by expanding its carbon footprint reporting boundary to value chain or Scope 3 emissions from cradle to grave. The Scope 3 reporting follows "GHG Protocol Corporate Value Chain Standard", World resources Institute. The company defines the emissions sources on Scope3 and sets the selection criteria as follows:

- 1) The major emission sources
- 2) The System of data collection
- 3) Risk and Impact that may cause to business activity
- 4) Business Interest

In each issue, there are score ranking from 0-3. (0 is no score and 3 is highest score). All issues are fair weight. If any Scope3 emission activities triggers the criteria, they are included in Scope3 reporting. In this year, the significant activity including in Scope 3 is Solar PV purchasing. The Scope3 emission amount from purchasing Solar PV is 2,206 tons CO₂ eq.

Remark :

1. Emission Factor refers to National Renewable Energy Laboratory, Life Cycle Greenhouse Gas Emissions from Solar Photovoltaics, National Renewable Energy Laboratory, Life Cycle Greenhouse Gas Emissions from Solar Photovoltaics, Scope 3, Category 1 and Category 2 – Upstream Processes of Solar Photovoltaic Panels from •Raw materials extraction •Materials Production •Module Manufacture •System/Plant Component manufacture •Installation/Plant construction
2. Global Warming Potential: GWP refers to AR4

GHG emissions intensity

BCPG defines carbon intensity by dividing the absolute GHG Emissions by the generated electricity in all domestic-based projects. The carbon intensity is shown as follows:

GHG emissions intensity (Scope 1 and Scope 2 : Generated Electricity)	0.0045	ton Co ₂ eq : MWh
Carbon Emission (Scope 1 and Scope 2)	1,496	ton Co ₂ eq
Generated Electricity	330.4	GWh
GHG emissions intensity (Scope 1, Scope 2 and Scope 3 : Generated Electricity)	0.0111	ton Co ₂ eq : MWh
Carbon Emission (Scope 1, Scope 2 and Scope 3)	3,702	ton Co ₂ eq
Generated Electricity	330.4	GWh

SUSTAINABILITY MANAGEMENT IN SOCIAL DIMENSIONS

BCPG recognizes the importance of society and community, especially those located around the Company's establishments. As part of the Company's key sustainable business development policies, BCPG has formulated an important sustainable development activity plan under the concept of Breath of the World to help improve the quality of life and well-being, as well as maintaining good and long-lasting relationships, and building trust with society and communities in the area of operation.

BREATH OF THE SOULS

Breath of the Souls is part of the "Breath of the World" project which operates under the concept of raising the quality of life for the surrounding communities of the Company's establishments. In 2021, BCPG has organized a variety of projects and activities by adhering to social and community responsibilities as follows:

BCPG Never-ending Sharing Project

The Company has continuously provided assistance, care, and encouragement to those affected by the COVID-19 epidemic. For example, allocating unoccupied lands in the Lomligor Power Plant Project, Nakhon Si Thammarat Province, for villagers to use as farming areas for family consumption; providing equipment to prevent the spread of COVID-19; donating bags to help those affected by COVID-19; supporting the production of necessary medical equipment for distribution to hospitals in need, etc.



Gave away relief bags to motorcycle taxi drivers working in the business district in which BCPG is located.

The Company allowed the communities around Lom Ligor Power Plant in Nakhon Si Thammarat to leverage unoccupied spaces within the plant for rice planting for their own and family's subsistence and supported the production of necessary medical devices for further distribution to hospitals in need. Moreover, it supported the creation of mobile biosafety sampling stations to detect COVID-19 and improved hospitals to accommodate COVID-19 patients. These all are to encourage all sectors to take care of themselves and be healthy and to continue to pass on assistance to other people in the society.



Shared unoccupied lands for communities around Lom Ligor Power Plants to do rice planting.

Energy For Everyone Project

The Company has installed the first floating solar EV Charging Station for the Faculty of Fisheries, Kasetsart University, as well as installing a solar power generation system for Phra Khanong Police Station and Ban Sang Hospital, Prachinburi Province, for the purpose of spending the saved electricity costs for public benefit.



Baan Sang Hospital, Prachinburi

Good Job In The Village Project

In 2021, the Company has hired 249 people in the community within the Company's operating area in order to offer career opportunities and income for people in the community who are qualified to join the Company, which leads to sustainable development of good quality of life.

Sharing Knowledge Project

- Prepared an E-Book under the project “Brighten Your Life” to introduce basic knowledge regarding the solar power generation system used in households for the general public in a form of online media.



- Webinar activity “Train The Trainer for Circular Economy” to share knowledge to internal personnel and teachers from schools located around the power plant project areas regarding the concept of circular economy and the optimization of renewable resources. This is a concept focused by many countries around the world as one of the sustainable solutions to global warming.
- Workshop activity “Circular Economy Thinkers” to educate 30-50 students from Poonsin Petchsuk Uppatham School (Phra Khanong), Grade 7-9, regarding the concept of circular economy and the optimization of renewable resources. This is a concept focused by many countries around the world as one of the sustainable solutions to global warming.

