



Sustainability Report 2019



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Sustainability Framework

Gulf is committed to conducting business in a responsible manner, with an emphasis on creating growth and strong returns for our investors while taking into account the needs of all our stakeholders. The Company has therefore developed a **sustainability framework** which guides our focus in all three areas of sustainability - economic, environmental and social - supported by the principles of good corporate governance, sustainable IT management and strong stakeholder engagement.



Gulf is also committed to supporting the **United Nations Sustainable Development Goals** and has placed special emphasis on the following goals:

7 AFFORDABLE AND CLEAN ENERGY
 (Affordable and clean energy) - Gulf recognizes the essential role energy plays in driving growth and is committed to providing affordable, clean and reliable power to support economic and social development.

8 DECENT WORK AND ECONOMIC GROWTH
 (Decent work and economic growth) - Gulf works to contribute to economic development at all levels through education and programs that support local agriculture and other businesses, and is committed to upholding fair labor practices wherever we operate.

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
 (Industry, innovation and infrastructure) - Gulf invests in large-scale long-term projects to support industrial growth and national development, and encourages the use of innovative practices and technologies in all its projects.

12 RESPONSIBLE CONSUMPTION AND PRODUCTION
 (Responsible consumption and production) - Gulf makes it a priority to use energy and natural resources as efficiently as possible, avoiding negative environmental impacts wherever possible, and encouraging the creation of positive impacts through education and conservation programs.

13 CLIMATE ACTION
 (Climate action) - Gulf has adopted a No Coal policy and is actively working to increase investment in renewable energy. We utilize state-of-the-art technology in all our projects to ensure our power plants operate at the highest efficiency and have registered all operating projects in the Carbon Footprint program.

Global Trends and Business Strategies

+ Global trends

01

Climate change + decarbonization

For Gulf, a company that has traditionally focused on conventional power generation, climate change brings both risks and opportunities. Physical risks from climate change include impacts to water sources as well as the possibility of more severe and more unpredictable natural disasters. Additionally, the increased focus on climate change and the need for action, especially in the energy industry, could bring about changes in policies such as carbon taxes that could affect the Company's revenue. However, the global shift towards decarbonization also brings a number of opportunities, with the most obvious being the opportunity for the Company to invest in more renewable energy projects. With the increased support from governments and investors, as well as the availability of ever-improving technology, renewable energy projects have become more financially feasible in the short and long term.



02

Industrial growth, urbanization and electrification

While it is necessary for conventional power generation companies to move into the renewable energy sector, there is still a need for affordable and reliable gas-fired power generation to meet the growing power demand, especially in fast-growing economies such as those in Southeast Asia, that will result from increasing industrialization. Additionally, the concurrent increase in urbanization and electrification will require more investments in large-scale infrastructure and mass transit projects such as high speed railways. For Gulf, this means there is still opportunity for growth in conventional power as well as the opportunity to diversify into other businesses to support industrial growth.



03

Other emerging risks

Gulf is also aware that there are a number of other potential emerging risks which may or may not affect the Company. These include cybersecurity risks, disruptive technologies and decentralization of the power sector. Gulf continues to constantly monitor these trends and has implemented mitigation measures as needed, such as conducting hacking tests to ensure the security of our IT infrastructure and systems.



+ Business strategies

Gulf aims to improve the quality of life of people in society through sustainable value creation. To achieve this, the Company has developed the following business strategies:

01

Increase the proportion of investment in renewables through investment in renewable energy projects and acquiring shares in companies which operate in the renewable energy business as part of our climate strategy to move towards decarbonization and a low carbon society. Gulf has also adopted a No Coal Policy and will not invest in coal-fired power projects.

These strategies are founded on the principles of sound management practices coupled with the use of state-of-the-art technology to ensure all projects are developed within the set budget and timeframe and operate with high efficiency without neglecting the Company's environmental and social responsibility.

02

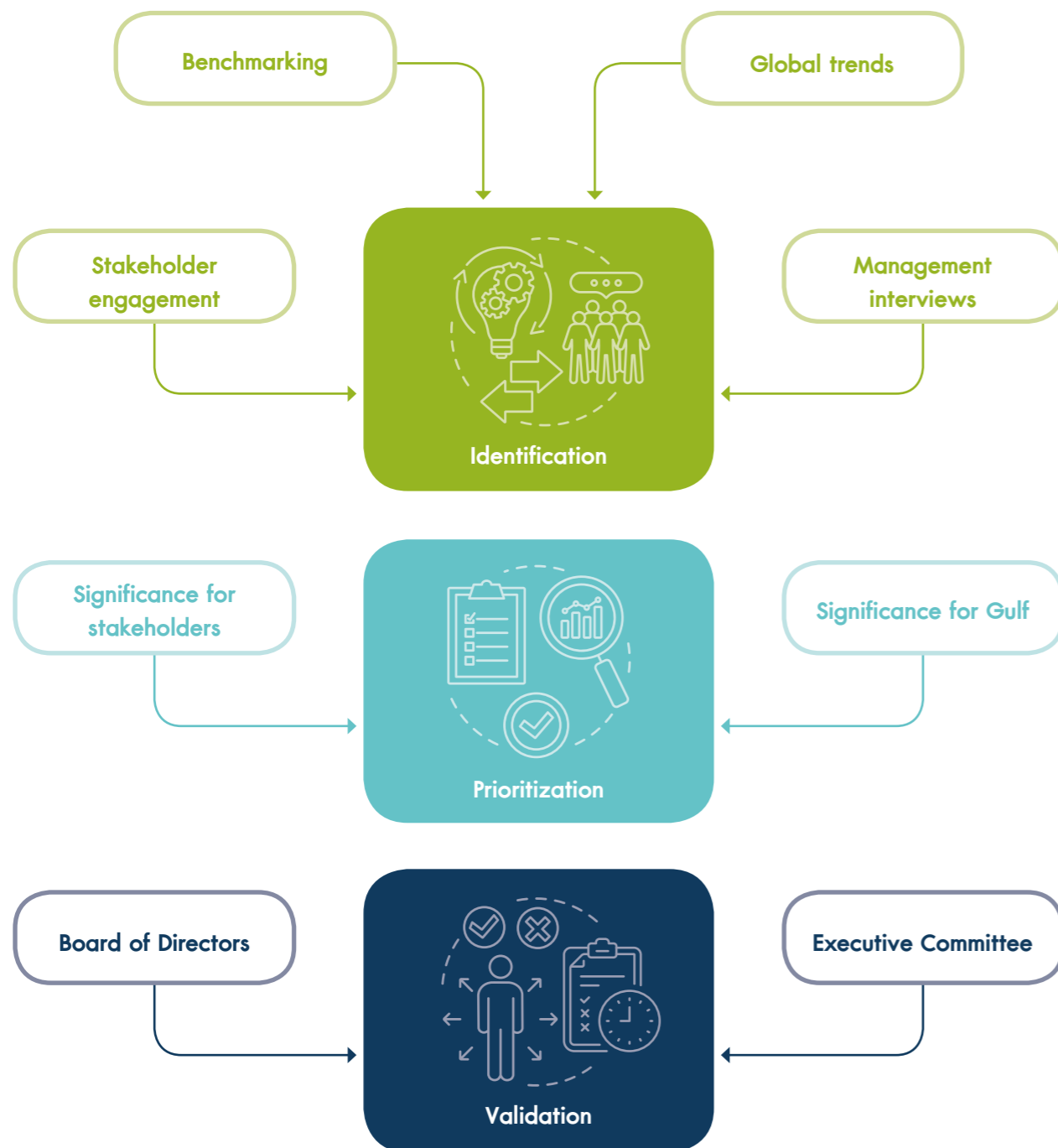
Expand its conventional power business and related infrastructure businesses domestically and overseas to support energy security and meet the ever-increasing demand for electricity which will support industrial growth and economic development at the national and regional level.

03

Diversification into other related businesses to ensure that, no matter what the future brings, GULF will be able to adapt to the ever-changing world.

Materiality

Gulf's identification of material issues is informed by conclusions drawn from its stakeholder engagement process and risk assessment process as well as from input provided by management and by benchmarking against other companies. Material issues are prioritized based on their impact to the Company and to stakeholders, and validated at the executive and Board levels.

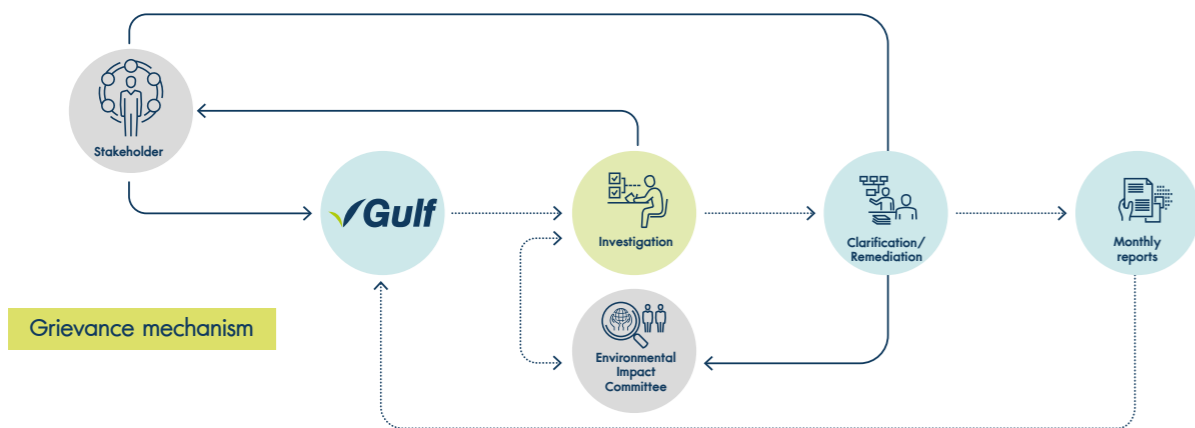
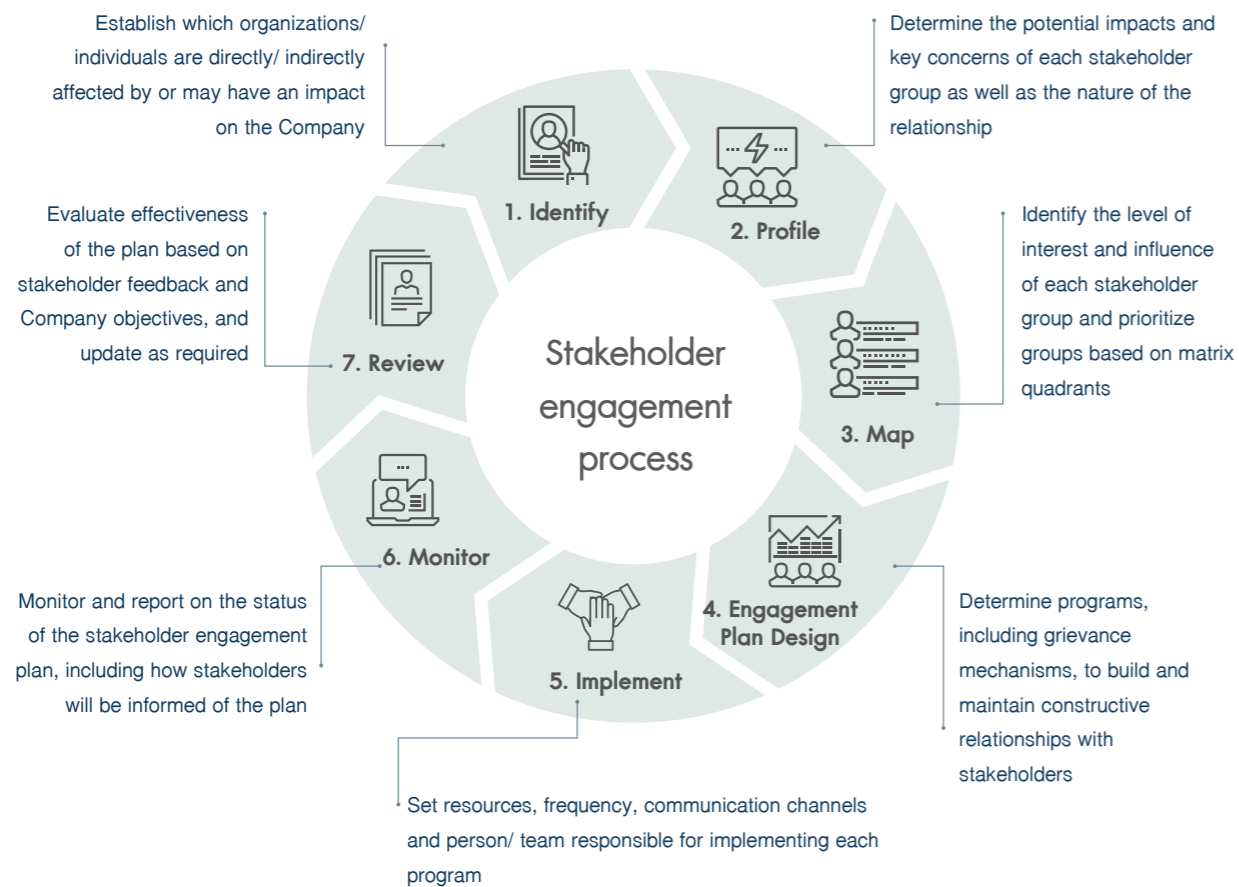


In 2019, Gulf identified 20 material issues, focusing especially on the following:

<p>01</p> <p>Governance Dimension</p> <p>Corporate governance and anti-corruption</p> <ul style="list-style-type: none"> Conduct business in a transparent and trustworthy manner Anti-corruption Maintain adequate and appropriate internal control systems 	<p>02</p> <p>Governance Dimension</p> <p>Risk management</p> <ul style="list-style-type: none"> Manage risk in line with COSO standards Embed and foster risk management culture in the organization Implement business continuity management 	<p>03</p> <p>Economic Dimension</p> <p>Sustainable business growth</p> <ul style="list-style-type: none"> Promote innovation, technology and adaptability Seek and study business expansion opportunities domestically and internationally Consider long-term benefits 	<p>04</p> <p>Economic Dimension</p> <p>Strategic Partnerships</p> <ul style="list-style-type: none"> Seek and build alliances with highly qualified partners Implement strong stakeholder engagement practices Support university research
<p>05</p> <p>Emerging Issues</p> <p>Climate Change</p> <ul style="list-style-type: none"> Increase investment in renewable energy Utilize modern, state-of-the-art technologies Obtain carbon footprint certification 	<p>06</p> <p>Social Dimension</p> <p>Human capital management</p> <ul style="list-style-type: none"> Attract and retain high potential personnel Support employee development to prepare for potential changes Ensure strong occupational health and safety practices 	<p>07</p> <p>Social Dimension</p> <p>Corporate identity, brand and reputation</p> <ul style="list-style-type: none"> Foster the G-U-L-F core values to enhance employee engagement Become a model for corporate social responsibility Build trust by engaging with the local community 	<p>08</p> <p>Environmental Dimension</p> <p>Impacts to the local community</p> <ul style="list-style-type: none"> Prioritize operational eco-efficiency Measure and monitor environmental indicators such as air quality Communicate with and consult local communities and state agencies regularly

Stakeholder Engagement

Gulf places great importance on understanding and addressing the needs of its stakeholders. The Company ensures that it is effectively engaging with all its stakeholders by implementing a 7-step cyclical stakeholder engagement process that allows the Company to constantly communicate with stakeholders in order to identify and prioritize stakeholder needs, design appropriate engagement plans, and monitor the effectiveness of those plans. The Company also has a clear grievance mechanism allowing stakeholders to voice their concerns and receive feedback through multiple channels.



Investors

Key Issues: Sustainable business growth, providing funding for new projects while maintaining financial stability and profitability

Management method: Seek and build strategic partnerships with experienced players to manage risks (especially financial risks) and find alternate ways to raise funds without diluting shares for current shareholders

Engagement channels: Investor Relations section in the Company's website, annual reports, annual shareholder meetings, analyst meetings, and other activities such as power plant site visits and roadshows

Employees

Key Issues: Well-being, occupational health and safety, career advancement, job security

Management method: Foster corporate values, create a safe and happy work environment, provide opportunities for learning and development, provide competitive compensation, emphasize fair and non-discriminatory treatment

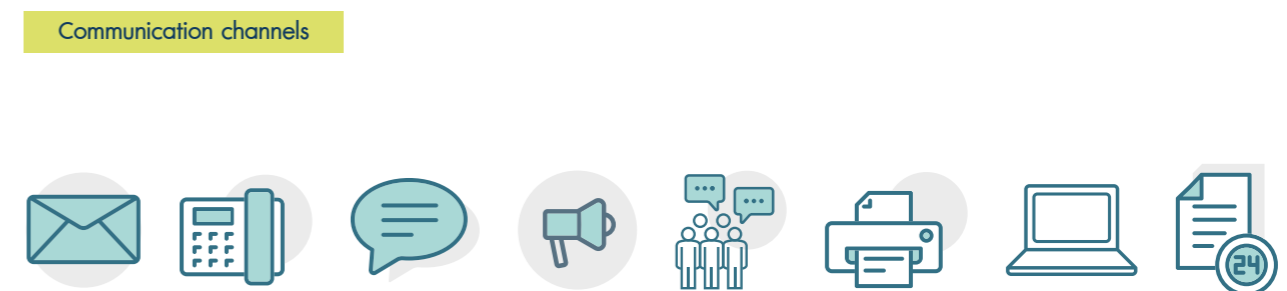
Engagement channels: Employee engagement survey, activities such as sports day, new year party and company-sponsored sports clubs, management visits, townhall events, and regular visits from the human resources department

Local Community

Key Issues: Manage impacts from the Company's operations, increase positive impacts, improve quality of life for the people in the community, promote sustainable communities

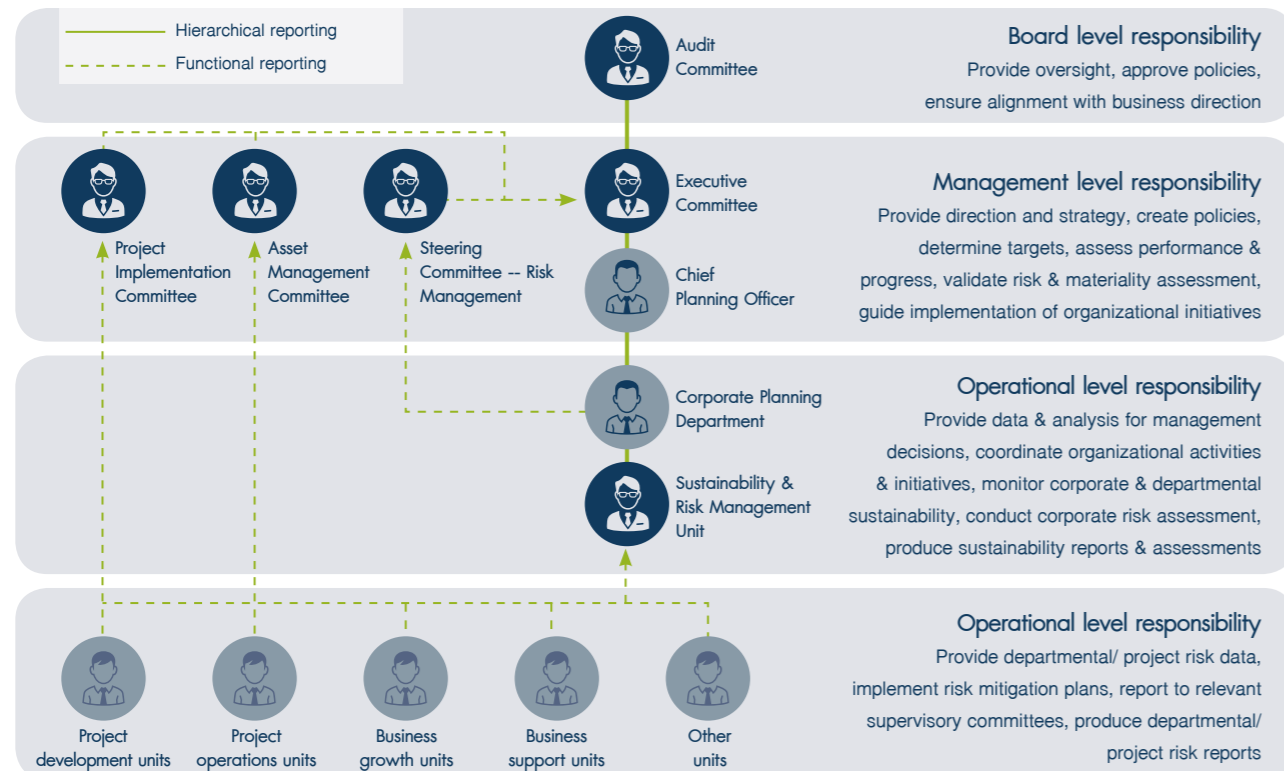
Management method: invest in community development projects such as building and repairing roads, dredging canals and installing light poles, support educational and health projects such as scholarships, internships and hospital renovations, support activities such as sports tournaments and cultural events

Engagement channels: Environmental impact committee, community surveys, regular visits from the community relations department



Risk Management

The Company has developed a risk management process in line with COSO standards and has assigned the Sustainability and Risk Management unit, under the Corporate Planning department, to be responsible for gathering information from all departments and units to analyze and assess the Company's risks at the corporate level. This assessment covers strategic, financial, operational and compliance risks as well as ESG (environmental, social, governance) risks and emerging risks. This is presented to the Steering Committee — Risk Management and is reviewed by the Executive Committee and the Audit Committee in the final stage. In 2019, the Company developed a business continuity plan which serves as a guide to help the Company prepare appropriate responses to potential threats which may impact its operations, image or reputation, or which may damage investor confidence, in order to mitigate any impacts that may occur during times of emergency or crisis and ensure the Company can resume normal operations.



01 Set Objectives: Set objectives aligned with corporate strategy, material topics and risk appetite

02 Identify Events: Identify events that could have a negative impact (i.e. risks) on the ability to achieve objectives

03 Assess Risks: Identify events that could have a negative impact (i.e. risks) on the ability to achieve objectives

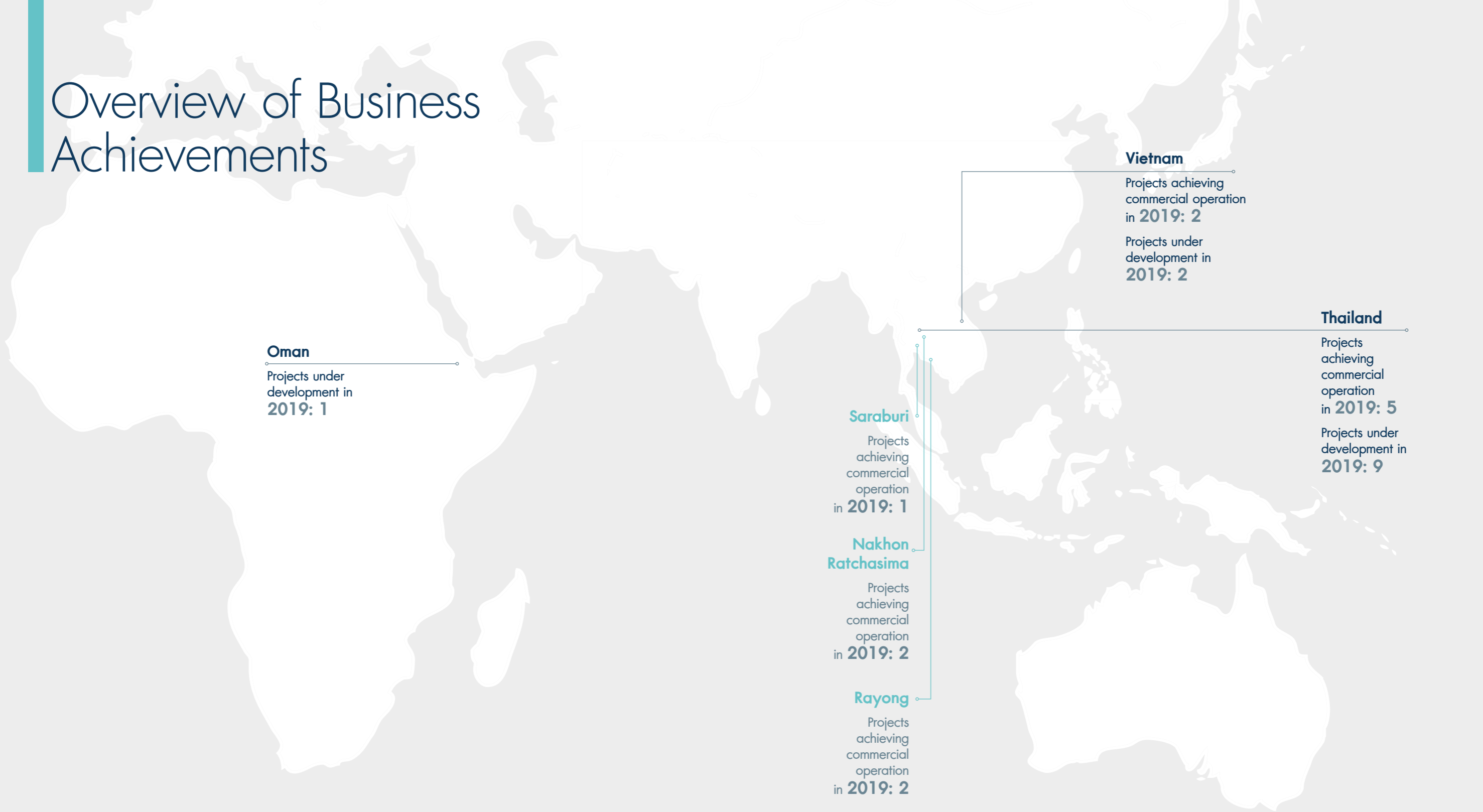
04 Determine Risk Responses: Evaluate and/or develop risk responses. Strategies: avoid, transfer, reduce, accept

05 Establish Control Activities: Integrate controls with responses. Controls: preventive, detective, corrective

06 Monitor Risks: Monitor current action plans, assess effectiveness of controls, and consider new risks

Risk Characteristics	Risk Management Guidelines
Strategic risks	
Uncertainty in diversifying and expanding overseas	The Company has established guidelines and measures for selecting new projects with prudence and procedures. Business risk analysis plans have been put in place to analyze various factors related to the projects and surrounding factors. In addition, the Company has a policy to seek and jointly invest with highly capable business partners.
Operational risks	
Project delay or cost overrun	The Company has selected internationally recognized contractors who have extensive experience and expertise as well as entered into agreements that included a provision allowing the power projects to levy fines against contractors which are estimated to cover expenses caused by delays in construction.
Plant Performance	The Company has developed a pro-active maintenance schedule and has an inventory pooling system which reduces the time and costs associated with replacing parts. Furthermore, the Company utilizes digital tools in the operations and monitoring process in order to increase the efficiency of its project operations and management, and promotes the exchange of knowledge and experience sharing among the Group's employees across projects.
Manpower shortage	The Company has a policy to increase recruitment, selecting candidates based on relevant qualifications. The Company regularly evaluates employees and improves its learning and development programs accordingly in order to prepare them for changes that may happen in the future.
IT Security	The Company has an Information Security policy which is in use across the organization. It has also developed strategies to protect against IT security risks which include selecting digital tools, improving and modernizing the IT infrastructure, hiring experts to assess the Company's IT system, and conducting training for employees and management, and developing various media to distribute information across the organization about how to protect against IT risks.
Unexpected catastrophes	The Company has developed a business continuity plan (BCP) for use in emergency or crisis situations which includes an IT Disaster Recovery Plan. Simulation tests and trainings have been conducted annually. In addition, the Company has a number of dedicated committees and working teams who are responsible for regularly monitoring, reviewing and improving business practices and risk mitigation plans, as well as project and corporate insurance plans for the whole organization.
Financial risks	
Substantial indebtedness at the Company and project levels	The Company manages and plans funding sources and utilizes financial instruments to raise funds effectively. The Company has negotiated with the financial institutions to ensure that the Company will be able to comply with the financial and other covenants and ensure timely loan repayments.
The Group has risks that may arise from currency exchange rate volatility or interest rate volatility	The Group manages currency exposure through a natural hedge (cash inflows to offset cash outflows) both during the construction phase as well as after the commencement of commercial operations. Furthermore, the Group utilizes currency forward contracts and interest rate swaps in order to reduce risks from exchange rate and interest rate volatility, respectively.
Compliance risks	
The Group has risks from non-compliance of regulations and rules, as well as contracts and agreements	The Company places great importance on compliance with laws, regulations and various rules. The Company continuously monitors new laws that are relevant to the Company's business operations as well as disseminates the information to the entire organization to ensure understanding and acknowledgement of consequences and action plans.
Governance and internal fraud	The Company has established a Code of Conduct and ensures all employees undergo training, with a requirement for employees to pass a test on the Code of Conduct when they first enter the Company and every year after that. In 2019, the Company organized anti-corruption training with an expert from the Thai Private Sector Collective Action Against Corruption (CAC) as a guest speaker. Furthermore, the Company has adequate and appropriate risk management processes and internal controls in place, and has an internal audit division which works independently.
Emerging risks	
Impacts from climate change	The Company monitors changes to water sources on an on-going basis, both in terms of monitoring for drought and floods. It has put in place water management measures in its operations. Furthermore, the Company has continually studied global trends and has adjusted its business strategies accordingly. Currently, the Company has directed its focus towards increasing investment in renewable energy and infrastructure projects, as well as other related businesses.

Overview of Business Achievements



The Company acquired **additional indirect equity** interest in TTCIZ-01 and TTCIZ-02 projects from 49.0% to **90.0%**

The Company acquired **additional equity** interest in Mekong project from 49.0% to **95.0%**

Mekong Wind Project Phase 1 signed the **Power Purchase Agreement (PPA)** with Vietnam Electricity (EVN)

The Company, Mitsui & Co. Ltd. and TGES invested equally at **33.3% equity interest** in BSE, to invest in the power distribution system and district cooling system for the **One Bangkok Project**

The Company invested a **70.0% equity interest** with PTT Tank in Gulf MTP which entered into a PPP contract with IEAT for Map Ta Phut **Industrial Port Development** Phase 3 Project

4 gas-fired SPPs, WHA NGD4 project, TTCIZ-01 and TTCIZ-02 projects commenced **commercial operation**

Gulf Family

The Company is aware that business success is highly dependent on human capital. Gulf believes that leading internationally-recognized companies are not those that achieve only financial success but rather are those companies that can develop “capable” and “responsible” employees who create value for and make positive contributions to society. Thus, the Company has established human resources management policies and guidelines that prioritize the development of “good people” by fostering the company’s core values which emphasize teamwork, learning, and adaptation for the current and future success of the company.

+ Core Values

Gulf has a long-term goal of becoming an internally trusted energy company. The Company therefore promotes core values that reflect what it means to be “GULF”, providing a guide for employee conduct which serves as the foundation of the business, creating a strong organizational culture and increasing stakeholders’ confidence that the Company will be able to achieve its goals with stability and sustainability.

G

Goal-Oriented

Be motivated and courageous to overcome limitations
The Company encourages and supports personal development so that employees can achieve the Company’s goal and confidently push their limits and overcome obstacles together.

U

Unity

Be devoted to a common goal, work as one team for mutual success
The Company creates a work environment that facilitates knowledge-sharing and exchange, and supports activities that encourage positive interactions among employees.

L

Learning

Love learning and be curious to initiate and explore new things
Employees are challenged to think outside the box, learn from mistakes, look for new ideas, and seek personal development through training opportunities provided throughout the year.

F

Flexible

Be flexible and agile to all challenges
The Company and its employees must be able to adapt to an ever-changing environment, be open to new ideas and perspectives, and be resourceful and flexible in their work.



GULF Talent Show



GULF Sports Day



Company-sponsored sports clubs



Seminar on investment-related topics



Management visits



Festivals, holidays and traditional celebrations



Townhall meeting with senior management

Gulf Family

The Company is determined to develop highly capable employees who can support the continued growth of the organization while recognizing the importance of strict compliance with various regulations and upholding the principles of good corporate governance and responsibility to the environment and society. The Company has therefore established human resources management policies that cover all areas of employment and employee care. In addition, the Company regularly evaluates its employees to analyze their potential and improves its learning and development programs accordingly. The Company has also developed training programs for new and existing employees to prepare them for whatever changes the future may bring.

Human Rights

0 Human Rights Violations



The Company is committed to upholding human rights and labor rights and has a zero tolerance policy regarding child labor, slave labor and forced labor.

Diversity and Fair & Equitable Treatment

BOARD OF DIRECTORS: 11



Females on the Board of Directors: 4 out of 11 (36%)



Occupational Health and Safety



The Occupational Health and Safety Committee (OHSC) oversees the health and safety of all employees and contractors and has established a culture of behavior-based safety.

- Employee fatalities: 0
- Employee LTIFR: 0.0
- Contractor LTIFR: 1.53

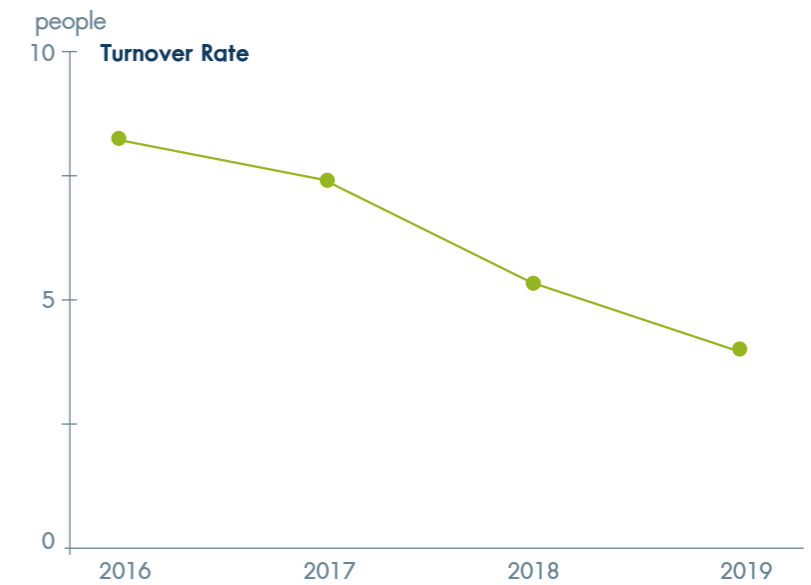
Employee Engagement



Employee Satisfaction



The Company conducts employee engagement surveys every two years, placing emphasis on employee well-being and provides fair and competitive compensation and benefits to employees.



Training and Development

The Company is aware of the importance of employee development. It therefore conducts regular performance evaluations in order to improve its employee development programs to meet the needs of the organization, ensuring all employees are given equal opportunities for development.

Number of average training hours per person in 2019



Number of specialized skills development course



Number of power plant technical skills development courses



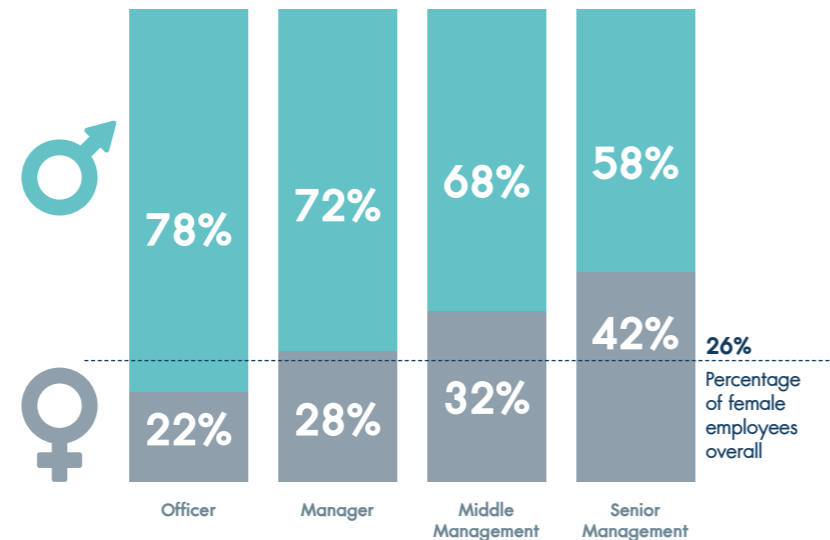
Number of soft skills development courses



Number of other development courses

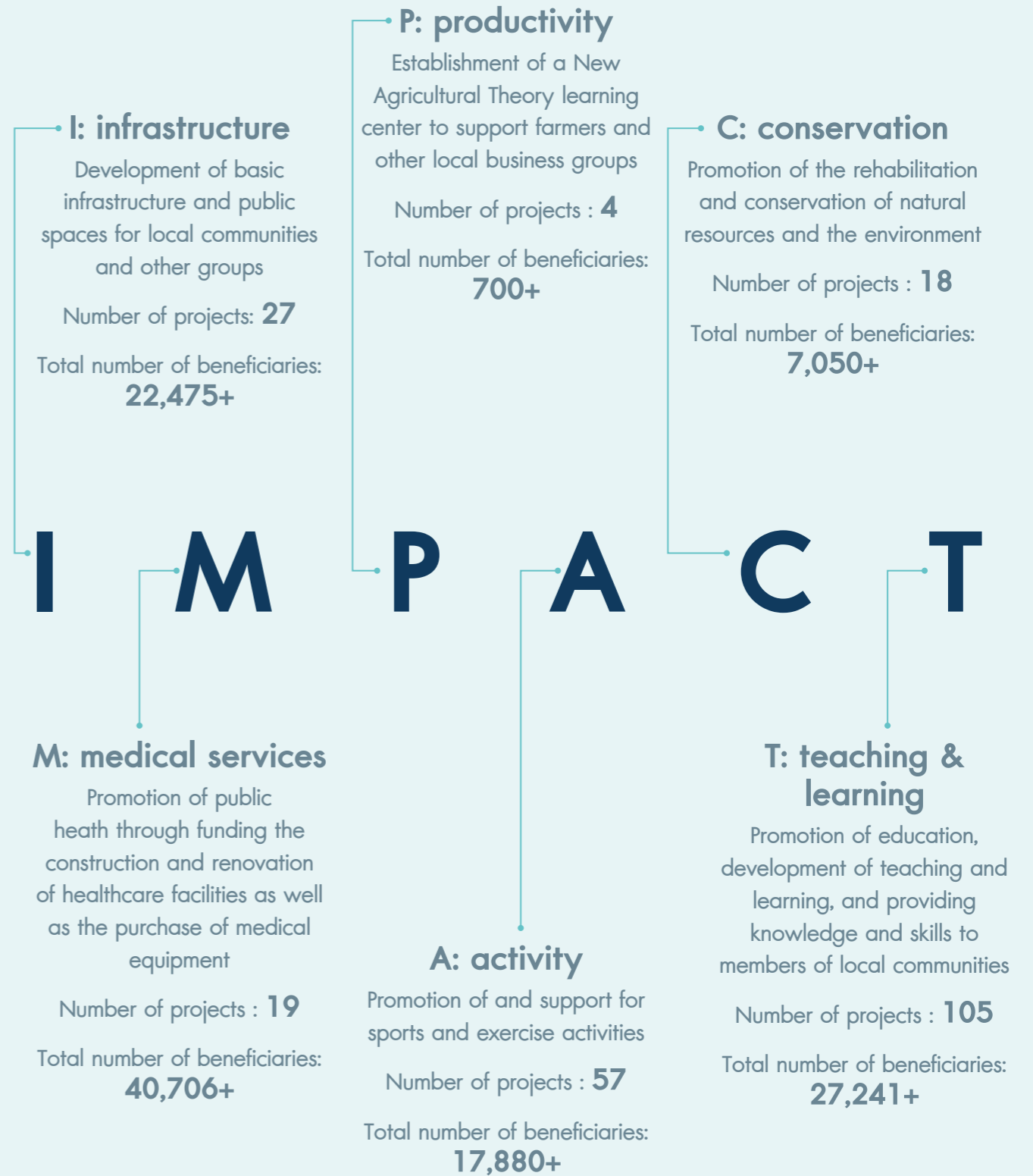


The Company's policies emphasize non-discrimination and the fair and equitable treatment of every employee.



Gulf Community and Society

It is the Company's core belief that business success must occur in conjunction with improved quality of life for people in society and therefore places great importance on engagement with the local community and society. The Company has developed a strategy to engage with the local communities around its power plants and the general society under the concept of "Powering the Country, Empowering the People", working to create greater positive impacts for its stakeholders.



Climate Management

Climate change is a significant issue for the energy industry, especially for power producers such as Gulf, as it may result in both physical and transitional impacts to business operations. These impacts include, for example, impacts to water sources resulting in drought, the possibility of more severe natural disasters, or the potential for the creation of new policies like carbon taxes. Thus, the Company has established business strategies to handle the risks and opportunities that may be caused by climate change. In addition, the Company has implemented measures to reduce energy consumption and greenhouse gas emissions as part of its corporate social and environmental responsibility to move towards a low carbon society and reduce dependence on fossil fuels.



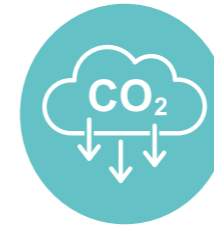
Climate strategy

The Company has established a climate strategy in line with its business strategies and current global trends in order to ensure that the Company is prepared to handle climate change and the potential impacts that may result. The strategy focuses on reducing the proportion of electricity generated through combustion through increasing investment in renewable energy and other related businesses. Significantly, the Company has implemented a No Coal Policy to reinforce its corporate commitment to grow the business sustainably and provide clean and safe energy to the society.



Reduction of energy consumption in the production process

The Company's policy is to use high-quality state-of-the-art technology from internationally recognized suppliers with high expertise in order to achieve the highest levels of efficiency in operation which will allow the Company to use less energy and fuel in the production process. In addition, the Company has carefully planned operation and maintenance schedules to prevent unnecessary energy consumption. In 2019, the Company was able to reduce its heat rate by 0.83% from the previous year.



Participation in the Carbon Footprint program

The Company measures its greenhouse gas emissions in order to calculate its carbon footprint covering Scope 1 (direct emissions from owned or controlled sources), Scope 2 (indirect emissions from the purchase of electricity), and Scope 3 (other indirect emissions). All Company power plants in Thailand which have achieved commercial operation for at least one year are required to participate in the Thailand Greenhouse Gas Management Organization (Public Organization) or TGO carbon footprint project. In 2019, 14 Gulf power projects received Carbon Footprint for Organization (CFO) and Carbon Footprint for Product (CFP) certification from the TGO and the Company reduced its carbon intensity by 2.3% from the previous year.



Investment in renewable energy projects

The Company has a policy to increase investment in renewable energy projects, namely, solar power, wind power, biomass and hydropower projects, in order to support its corporate climate strategy. In 2019, the Company invested in renewable energy projects in Vietnam, with two solar power projects with a total installed generating capacity of approximately 120 megawatts achieving commercial operation and with several more projects under development.



Innovation in operations

The Company encourages its employees to seek ways to improve operations in order to increase efficiency in the production process by setting key performance indicators (KPIs) which reflect the successful implementation of various improvement projects. For example, the Company uses a tie-line method to link two nearby power plants allowing them to operate alternately which helps to increase electricity generation efficiency and to reduce energy and fuel consumption intensity.



Sale of steam and chilled water

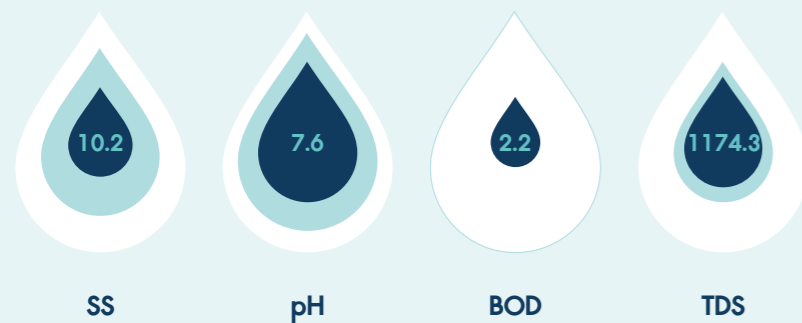
Along with their main product of electricity, the Company's small power producers or SPPs also generate and sell steam and chilled water to industrial users in the area. In addition to the financial benefits to both the customers and the Company, the generation and sale of such products also helps the environment as the Company is able to use top-quality technology to produce large amounts of steam and chilled water, allowing industrial users to forgo the use of small, inefficient boilers or extra electricity to produce chilled water themselves. In this way, it can be said that the Company plays a role in helping to reduce industrial greenhouse gas emissions both directly and indirectly.

Operational Eco-Efficiency

As the Company's business operations rely on natural resources, especially water and natural gas which are important raw materials in the electricity generation process, the Company is highly aware of the need to help conserve and protect those natural resources for the benefit of the current and future generations. As such, the Company makes it a priority to manage its environmental impacts in the areas where it operates, such as the local areas around its power projects, which may be affected differently depending on the environment. Thus, the Company has established an environmental management policy which covers issues including increasing efficiency in operations, reducing negative impacts to the environment and society, and increasing positive impacts especially in terms of resource sharing and environmental conservation.

Water quality management

It is important to control the quality of water entering and leaving the power plant as water of a below-standard quality may damage the plant's equipment and the environment. Thus, all water used in the Company's power plants must pass a treatment process to eliminate sediment and other contaminants before entering the production process. The Company manages water quality in line with legal limits** and monitors a number of quality indicators including suspended solids (SS), acidity (pH), biochemical oxygen demand (BOD) and total dissolved solids (TDS). By strictly following operating procedures, the Company has been able to control its water quality, ensuring that all water discharged from its power plants is of significantly better quality than set legal standards.



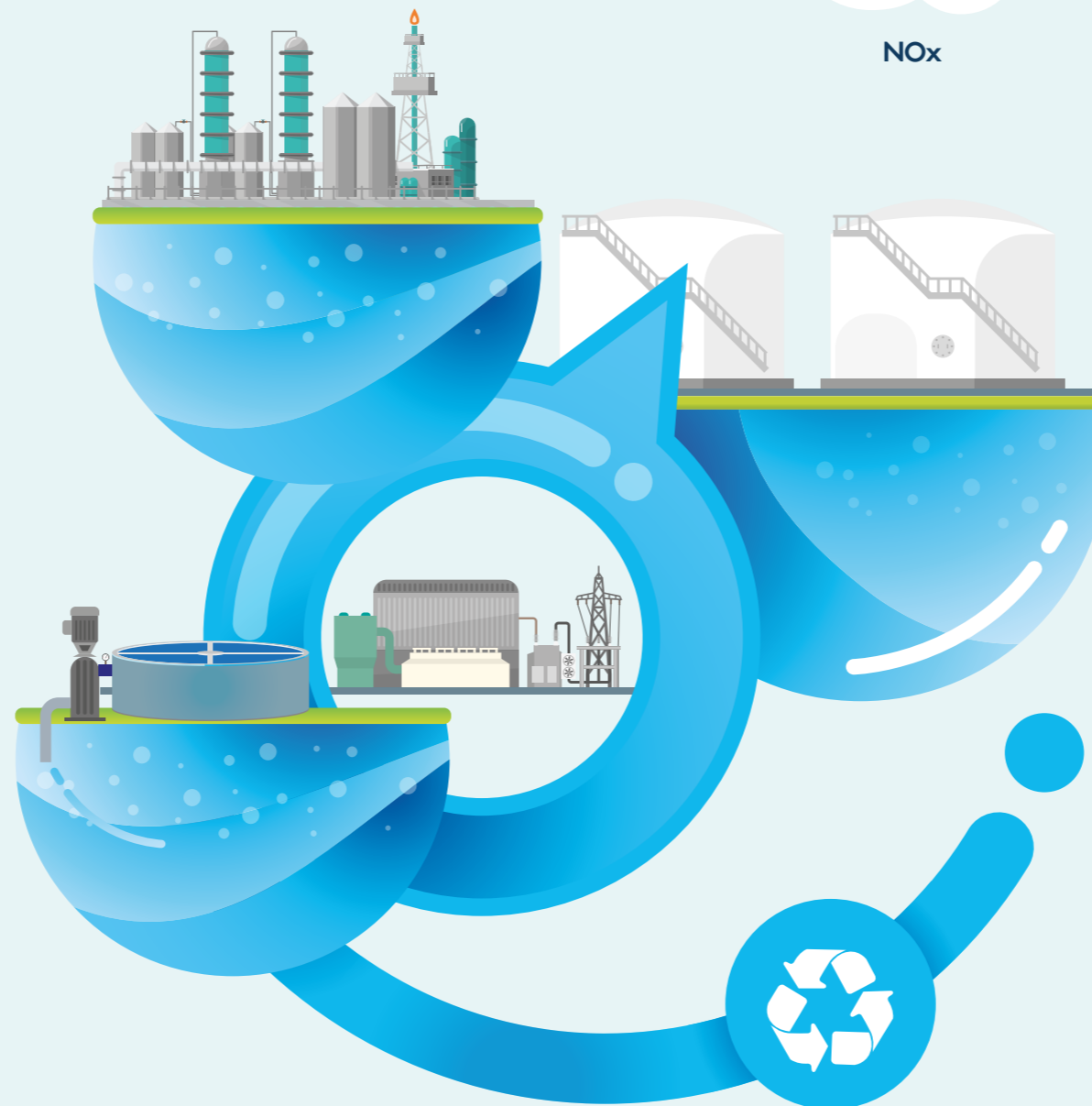
● Average measurements of water quality indicators at Gulf power plants in 2019
 ● Discharge water quality standards set by industrial estates
 1) SS below 50 mg/L 2) pH between 5.5-9.0 3) BOD below 20 mg/L 4) TDS below 3000 mg/L
 ● Discharge water quality standards set by the Royal Irrigation Department
 1) SS below 30 mg/L 2) pH between 6.5-8.5 3) BOD below 20 mg/L 4) TDS below 1300 mg/L

Air quality management

The Company has a policy to use the best available technology to develop its projects, allowing its power plants to generate electricity with very high efficiency. This benefits the environment as more efficient power plants are able to convert the same amount of fuel into more electricity and will lose less energy to the combustion process compared to less efficient power plants of similar size, thus creating significantly fewer emissions such as nitrous oxides (NOx), sulfur oxides (SOx) and dust or suspended particles (TSP). In addition, to increase confidence of stakeholders, the Company continuously monitors air quality at the plant's ventilation points as well as at various points around the power plant. In 2019, the Company was able to ensure its air emissions remained far below the limits mandated in its EIA.



● Average measurements of air quality indicators at Gulf power plants in 2019
 ● Air quality standards set by the Ministry of Natural Resources and Environment (2010)
 1) NOx below 120 ppm 2) SOx below 20 ppm 3) TSP below 60 ppm
 ● Air quality standards set by the Environmental Impact Assessment (EIA)
 1) NOx below 60 ppm 2) SOx below 6-10 ppm 3) TSP below 20-32.7 ppm

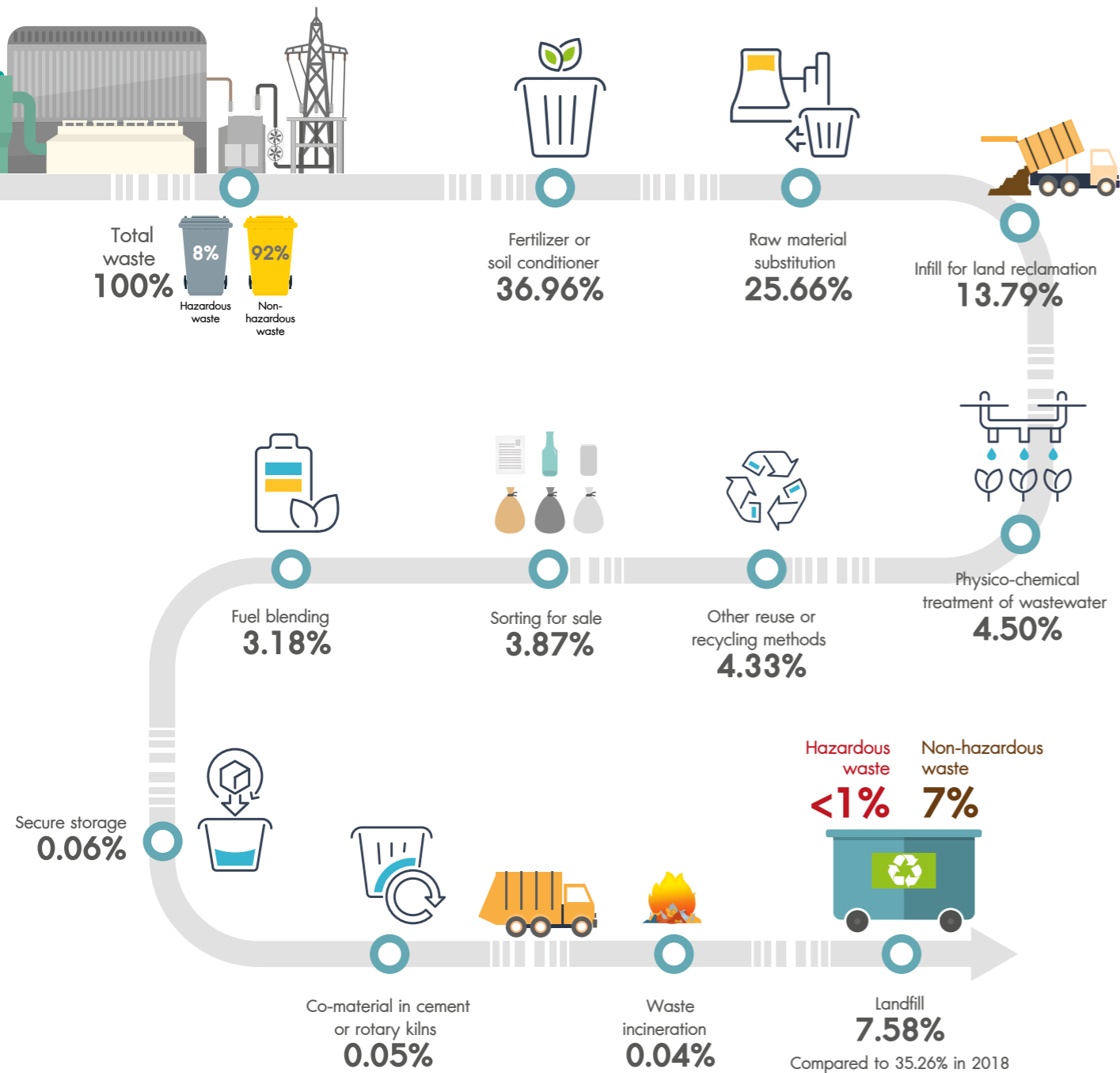


Water management

The Company studies and analyzes trends in changes to water sources in all the areas where it operates to ensure the adequacy and efficiency of the water management plan of each project. The Company also consults with representatives of the local community and relevant state agencies to develop resource sharing schemes for power projects located outside industrial estates. In addition, the Company has implemented measures for efficient water consumption by treating and cycling the water used in the production process to increase the number of times the water can be reused and to thus significantly reduce the amount of water consumed per megawatt of production. Furthermore, the Company requires all its power projects in Thailand which have been in operation for at least one year to measure their water footprint annually.

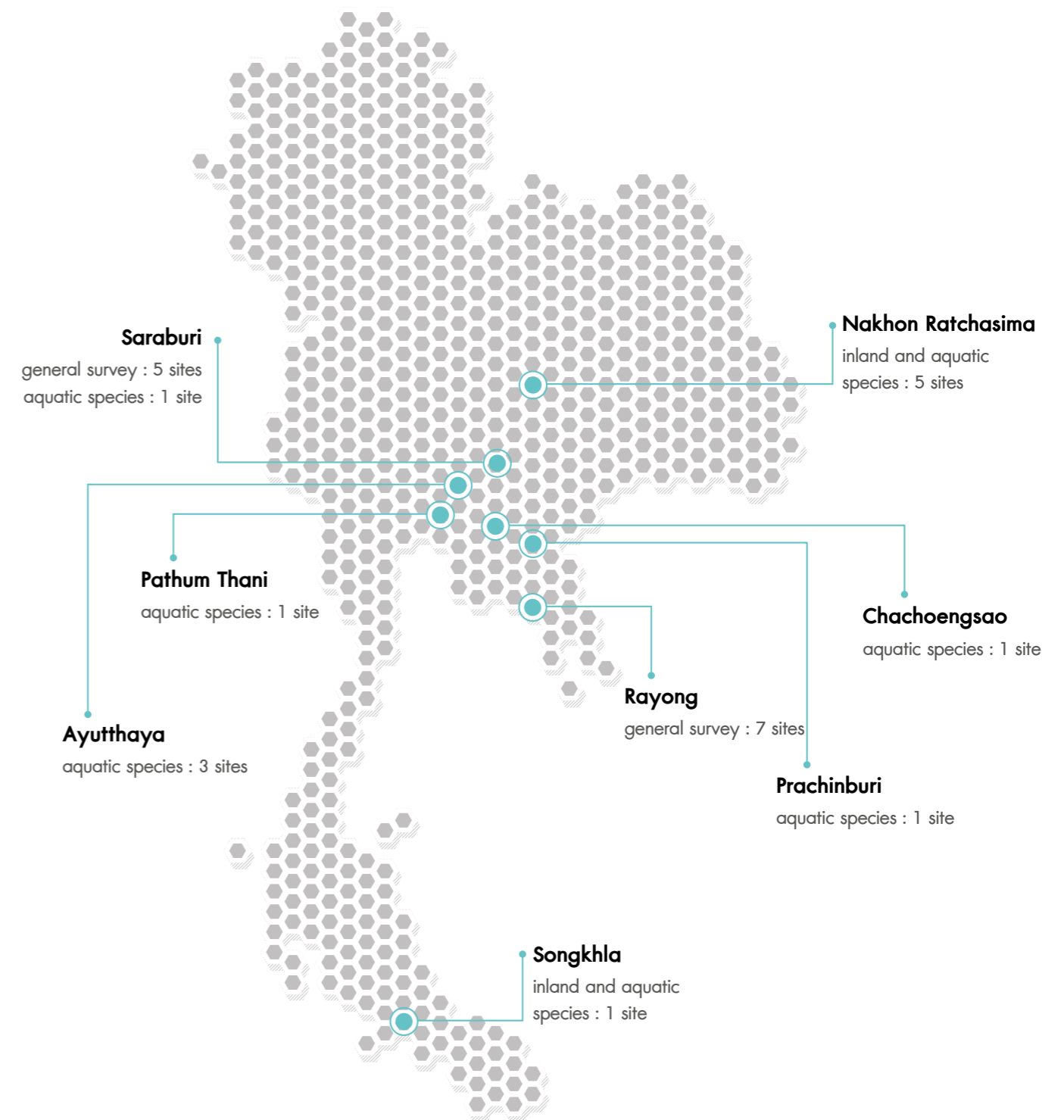
Waste Management

The electricity generation process does not generate large amounts of waste as few raw materials or chemicals are used in the production process, with the majority of the waste comprising natural sediment filtered out of water used in electricity generation. Regardless, the Company places great importance on responsible production and consumption for the greater good and works to manage waste under its Zero Waste to Landfill project which aims to reduce operational waste disposed of in landfills to zero. In addition, the Company also encourages its employees to help reduce waste in general, especially plastic waste which is a major global issue.



Biodiversity

The Company chooses to only develop projects in industrial estates or areas where the government allows industrial development. These areas are located away from areas of high biodiversity value or environmentally vulnerable areas and the Company does not engage in forest-clearing for project space. Regardless, the Company conducts biodiversity monitoring surveys in the area around its power plants every 6 months to record the type and number of plant and animal species in the area.



Demonstration Farm

The Company manages a demonstration farm project which was initially developed as part of its Environmental Impact Assessment (EIA) requirement mandating that 10 rai (4 acres) of greenspace be used to study the potential impacts of power plant operations on local agriculture. Currently, the Company has expanded the project area to over 4 times the size of the original requirement and has developed the project into a New Agricultural Theory learning center and local recreational area to support organic farming and eco-tourism in the local area.



Demonstration rice paddy and New Agricultural Theory learning center

The Company maintains a rice paddy on 10 rai (4 acres) of land to focus on the development of high quality rice for consumers and trialling new strains of rice with high nutritional value, in accordance with market demand. The success of the demonstration rice paddy inspires local farmers and generates quality products for the learning center.

Fertilizer production area

The Company produces organic fertilizer at the project which is then used for the produce grown on its farm. The local community can also learn how to produce their own fertilizer, especially vermicast (earthworm fertilizer), which not only helps reduce the use of chemicals but also helps reduce agricultural waste such as wood scraps, plant clippings and manure. In addition, the Company also produces fertilizer from sediment leftover from its power plants' water treatment process.



Demonstration farm



The Company has a demonstration farm where several types of fruit, vegetables and herbs are grown. It serves as a learning space to support organic farming which will help increase income for the local community as well as promote good health. The farm is also a place where visitors can relax and enjoy the revitalizing effects of nature.

Fish pond

The Company's project includes a fish pond and canal to raise fish which can then be released into public waterways for the local community to catch as food. This helps provide a safe, reliable and sustainable food source for the local community.



Awards and Recognition

sustainable

Achievements in sustainability

- Most Socially Responsible Company – Thailand 2019 Award [Global Business Outlook]
- Inclusion in the Thailand Sustainability Investment 2019 (THSI) List [The Stock Exchange of Thailand]
- Sustainability Disclosure Acknowledgement 2019 Award [Thaipat Institute]

business

Achievements in business

- Asia Pacific Power Deal of the Year 2019 Award¹ [Project Finance International: PFI]

E

Achievements in the environmental dimension

- Green Industry Award² [Ministry of Industry]
- Carbon Footprint for Organization (CFO) Certification³ [Thailand Greenhouse Gas Management Organization (Public Organization)]
- Carbon Footprint for Product (CFP) Certification⁴ [Thailand Greenhouse Gas Management Organization (Public Organization)]
- Water Footprint Certification⁵ [Water Institute for Sustainability, The Federation of Thai Industries]

S

Achievements in the social dimension

- Zero Accident Campaign Award⁶ [Ministry of Labour]

G

Achievements in governance

- “Corporate Governance Report of Thai Listed Companies 2019” score : 4 stars (very good) [Thai Institute of Directors (IOD)]
- Annual General Meeting of Shareholders Assessment Project 2019 score : 100% [Thai Investors Association]

¹ GPD

² GBL, GBP, GTS3, GTS4, GKP1, GKP2, GNLL2

³ GKP1, GKP2, GTLC, GNNK, GNLL, GCRN, GNK2, GVTP, GTS1, GTS2, GTS3, GTS4, GNS, GUT

⁴ GKP1, GKP2, GTLC, GNNK, GNLL, GCRN, GNK2, GVTP, GTS1, GTS2, GTS3, GTS4, GNS, GUT

⁵ GNNK, GNLL

⁶ GKP1, GKP2, GTLC, GNNK, GNLL, GCRN, GNK2, GVTP, GTS1, GTS2, GTS3, GTS4, GNS, GUT



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