

(Incorporated in the Cayman Islands with limited liability) STOCK CODE: 1281



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About this Report

LongiTech Smart Energy Holding Limited (referred to as "LongiTech Smart Energy" or the "Company") is delighted to publish its fifth Environmental, Social and Governance (referred to as "ESG") Report (referred to as the "Report"). This Report is intended to address the stakeholders' material ESG topics of concern, and specifically discloses important ESG activities carried out by the Company and its subsidiaries (referred to as the "Group" or "We") in 2020 and their performance.

Reporting Scope

Organization Scope: Unless otherwise specified, this Report covers the Group's organization scope. Reporting Period: Unless otherwise specified, this Report covers a period from 1 January 2020 to 31 December 2020 (referred to as the "Reporting Period").

Reporting Guidelines

This Report is prepared strictly in accordance with the *Environmental, Social and Governance Reporting Guide* (referred to as the "ESG Reporting Guide") in Appendix 27 of the *Rules Governing the Listing of Securities on the Stock Exchange of Hong Kong Limited* (referred to as the "Listing Rules") issued by the Stock Exchange of Hong Kong Limited (referred to as the "Listing Rules") issued by the Stock Exchange of Hong *Kong Limited* (referred to as the "Listing Rules") issued by the Stock Exchange of Hong Kong Limited (referred to as the "Stock Exchange"), and extensively referred to the *Global Reporting Initiative (GRI) Sustainability Reporting Standards* and other disclosure standards. This Report is prepared based on the Materiality, Quantitative, Balance, and Consistency reporting principles outlined in the ESG Reporting Guide, and complies with the disclosure obligations under the "comply or explain" provisions.

Report Assurance

The board (referred to as the "Board") of directors (referred to as the "Directors") of the Company has reviewed this Report and guarantees the authenticity, accuracy, completeness and effectiveness of the information in this Report. The Board promises that the contents of this Report are free of false statements, obvious omissions or misleading descriptions.

Report Issuance

This Report is published online in both Chinese and English. Readers are welcome to browse and download this Report through the following channels: The HKEx News website of the Hong Kong Exchanges and Clearing Limited: www.hkexnews.hk The official website of the Company: www.longitech.hk

Readers Feedback

Thank you for reading this Report! If you have any comments or suggestions about our ESG work, please feel free to provide feedback in the following ways. Your valuable suggestions will be the driving force for our continuous improvement.

The official website of the Company: www.longitech.hk The investor relations email: investor@longitech.hk



About LongiTech Smart Energy

About the Company

LongiTech Smart Energy is a smart energy integrated service provider, committed to the balanced expansion of the demand side and supply side of energy consumption, providing energy consumers with a full range of integrated smart energy services based on electricity, heat, gas and other energy sources.

During the Reporting Period, the main business of the Company was smart energy and public infrastructure construction businesses, of which the smart energy business was mainly operating solar power plants and focusing on the development of home photovoltaic systems business. Public infrastructure construction business refers to the public infrastructure construction and related early-stage investment and later-stage construction and operation management business of the Baoding Donghu Project.

During the Reporting Period, the Company managed 11 solar power plants with an installed capacity of 64 MW. The power generation was in good condition and the electrical equipment was operating stably. The annual power generation was 80.69 million kWh and realized a revenue of approximately RMB 63,022,000. In terms of home photovoltaic systems business, we achieved a considerable growth during the Reporting Period. The total number of home photovoltaic systems sold and installed throughout the year reached approximately 62.4 MW. In addition, the Company undertook distributed heating services for over 50 schools in Shaanxi, Shandong and Hebei Province, with a total heating area of approximately 200,000 square meters; and provided bath water supply services for three schools in Nanning and Liuzhou, Guangxi Province, covering 12,000 people. Through offline expansion of integrated energy business such as electricity, heat, and gas, the Company integrates and analyzes customer energy consumption data with an online cloud platform system with independent intellectual property rights to help customers improve energy utilization efficiency and construct a low-carbon, environmentally friendly energy supply system consisted of a multienergy complementation with smart operation and maintenance. During the Reporting Period, the sales of home photovoltaic systems and the provision of other smart energy businesses of the Group achieved a revenue of approximately RMB 185,242,000.

During the Reporting Period, our revenue was RMB 396,413,000, including RMB 248,264,000 from the smart energy business and RMB 148,149,000 from the public infrastructure construction business.

ESG Governance

During the Reporting Period, the Board continued to be in charge and fully responsible for the ESG Report and the Group's ESG-related work, reviewed and made decisions on material ESG issues of the Group, and promoted the integration of ESG concepts with the Company's development strategy and operation management. At the same time, the Board is responsible for assessing and determining the Group's ESG-related risks, and continuously supervises the management's design, implementation and monitoring of ESG risk management and internal control systems.

During the Reporting Period,

RMB 396.413.000

RMB 248.264.000

from the smart energy business

RMB 148.149.000

from the public infrastructure

construction business

our revenue was

In the year of 2020, based on the summary of ESG work in the previous reporting period, the Board made recommendations and plans for ESG-related work in this Reporting Period, including smoothing the communication channels with stakeholders, and further strengthening the Board's management duties of ESG issues, through deepening the Company's ESG internal control and the Board's participation in risk control, to ensure that the Company establishes a timely and effective ESG risk management and internal control system.

In addition to taking ESG-related risks into consideration in the risk assessment process, we also enhanced our ESG governance capability through relevant trainings for the Directors and the senior management. In 2020, we have engaged professional staff to train the Directors and the senior management on the latest trends in the listing regulations of the Stock Exchange and on the Directors' responsibilities, including the interpretation of the latest ESG guidelines.

Stakeholder Engagement

Actively incorporating the opinions of stakeholders in the sustainable development process of the Group and formulating sustainable development strategies based on this is a practice that we have adhered to for many years. During the Reporting Period, the Group continued to improve the communication mechanism for internal and external stakeholders, maintained effective communication channels, and learned about and responded to the ESG issues of most concern to all stakeholders in a timely manner.

Stakeholder communication channels and issues of concern for LongiTech Smart Energy in 2020

Stakeholders	Communication Channels	Issues of Concern
Shareholders and Investors	 Corporate Reports and Announcements Shareholder Meeting Email and Hotline 	 Corporate Governance Anti-corruption Information Disclosure Financial Performance
Government and Regulatory Agencies	Special ReportRoutine InspectionPublic-Private Partnership	 Corporate Governance Anti-corruption Community Engagement and Contribution Green City Promoting the Development of New Energy
Partners	 Open Tender Project Cooperation Interviews and Site Visits	 Supply Chain Management Anti-corruption Quality of Products and Services Smart Energy
Employees	 Email and Notice Board Employee Performance Assessment Employee Complaints and Feedback Team-building Activities 	 Employment and Employee Benefits Employee Development and Training Safe Construction
Customers	 Regular and Irregular Customer Visits Email and Hotline Customer Satisfaction Surveys 	 Quality of Products and Services Customer Satisfaction Energy Efficiency Smart Energy
Community/General Public	Public Welfare EventsEmail and Hotline	Community Engagement and ContributionGreen City

Assessment of Materiality Issues

During the Reporting Period, we reviewed the evaluation results of material issues disclosed in the 2019 ESG report based on industry trends, our own business, and policy requirements, and constructed a database of material ESG issues for 2020, and divided the issues into high, medium and low levels of materiality. We evaluated the ESG issues from two dimensions including importance to stakeholders and importance to the Company. As the Group's home photovoltaic system business expanded and accounted for a relatively high proportion of revenue during the Reporting Period, the importance of three issues closely related to this business—promoting new energy development, safe construction, and community engagement and contribution has increased. The Board and the Company's management have reviewed and confirmed the most important issues, which will be the focus of this Report's disclosure.

Materiality Issues' Matrix of LongiTech Smart Energy 2020



Note:

1. The three areas of different colors from the top to the bottom and from right to left of the above matrix represent the ranges of issues with high, medium and low levels of materiality, respectively.



Compliance Governance and Stable Operation

Improving Risk Management

The Company has formulated the *Risk Management System of LongiTech Smart Energy Holding Limited* based on the COSO enterprises risk management framework and internal control framework, laws and regulations in China and other nations and regions, and the Listing Rules of the Stock Exchange, combined with the current operation and management experience of the Company. During the Reporting Period, we determined the scope of risk identification, compiled risk assessment checklists, formulated risk assessment standards, implemented risk assessment procedures, confirmed risk assessment results, and formulated corresponding internal control rectification measures.

At the risk governance framework level, we have established "three lines of defense" with a clear allocation of responsibility for risk management.



Our Board attaches great importance to and deeply participates in the Group's risk management work. It is responsible for assessing and determining the nature and extent of risks, continuously supervising the management's design, implementation and monitoring of risk management and internal control systems, and ensuring that the effectiveness of the Group's risk management and internal control systems is reviewed at least once a year, and reporting the relevant situation to shareholders in the *Corporate Governance Report* to ensure the safe and stable operation of the Group, so as to improve the level of operation and management, and to realize the responsibility and return to shareholders.

committee.

evaluate the effectiveness of its risk management and internal control systems, and report to the audit

Strengthening Supplier Management

The Group is committed to creating a high-quality, stable, efficient and sustainable supply chain for the purpose of establishing a mutually beneficial partnership, so as to ensure the quality of our products and services. The Group strictly abides by the *Contract Law of the People's Republic of China* and other laws and regulations, and has formulated the *Supplier Management Measures, Procurement Management System* and other internal policies to standardize the development, evaluation, appraisal, review, counseling, rewards and punishments of related suppliers.

To enhance the ESG development of the Group and its stakeholders, we have taken environmental and social risks into consideration during supplier selection. In the contract signed with the construction company of the campus hot water supply system, we set forth the responsibility of the construction company to protect the legal leave rights of its employees, provide occupational health and safety trainings for employees, and strictly enforce the national environmental laws and regulations. In distributed gas heating business, we require suppliers to comply with relevant national regulations on production safety and environmental protection, and conduct clear supervision of suppliers' responsibilities in intellectual property protection, anti-corruption and product packaging.

During the Reporting Period, our major suppliers were associated with the home photovoltaic system business, solar power station operation business, distributed gas heating business, campus hot water business and administrative office operation, of which 42 were located in Mainland China and 2 were located in the Hong Kong area.

Number of suppliers by different businesses of LongiTech Smart Energy in 2020



Adhering to Anti-corruption

As a law-abiding corporate citizen, we strictly abide by the *Anti-Money Laundering Law of the People's Republic of China*, *Criminal Law of the People's Republic of China* and other laws and regulations, to resolutely eliminate all forms of corruption, such as bribery, extortion, fraud, and money laundering. In order to better implement relevant requirements, we have formulated a series of internal systems including the *Anti-fraud Management System, Complaint and Reporting Management System and Whistleblower Protection System*, to ensure that anti-corruption work is carried out effectively.

We advocate a corporate culture of honesty and integrity, and conduct regular trainings on professional ethics to help develop virtues of integrity, diligence and dedication among all staff, so as to prevent corruption in advance. We have set up telephone hotlines, E-mail addresses and other reporting channels for professional ethics issues, and established incentive mechanisms to encourage insiders to report corruption and violations, so as to promptly detect and tackle corruption. Employees who are confirmed to have committed corruption will be punished according to internal economic and administrative disciplines regardless of the severity of the incident, and criminals who violate the criminal law will be transferred to the judicial organs for handling in accordance with the law. By severely punishing corrupt practice, thereby reducing the Company's operational risks, safeguarding the legitimate rights and interests of shareholders and other stakeholders.

During the Reporting Period, we did not violate any laws and regulations relating to the prevention of bribery, extortion, fraud and money laundering that have a significant impact on the Group, and there were no legal cases related to this.

Ensuring Information Security

As a service provider that applies intelligent systems and cloud platforms to support energy business, we regard ensuring information security and customer privacy as the top priority of all our work. We strictly abide by the *Cybersecurity Law of the People's Republic of China* and other laws and regulations. During the Reporting Period, the Group did not have any violations involving information security or customer privacy.

We deploy and continue to strengthen the construction of an information security protection system, and comprehensively regulate information security protection work in terms of data security, network security, terminal security, and personnel security. For example, we specify in the *Employee Manual* that all employees should strictly abide by the Company's confidentiality system, not disclose or sell the Company's business secrets and economic and technical management information, and properly manage confidential drawings, documents, contracts, and materials in daily work activities, and beware of information leakage.

Protecting Intellectual Property Rights

We attach great importance to maintaining and protecting intellectual property rights and strictly abide by the *Patent Law of the People's Republic of China, Trademark Law of the People's Republic of China, Copyright Law of the People's Republic of China* and other national laws and administrative regulations related to intellectual property. By the end of this Reporting Period, we have obtained a number of software certificates such as those for the online power monitoring system and the power efficiency characteristic analysis system. In addition, the systems and platforms associated with the campus hot water business have also been applied for software copyrights registration by our partners, and the Company has been authorized to use these systems and platforms free of charge.

During the Reporting Period, the Group did not violate laws and regulations related to intellectual property rights.

Technology Empowerment and Smart Operation



Home Photovoltaic System Business

The Group innovatively first adopted the O2O (Online To Offline) operation and maintenance model that combines online platforms and offline teams. Through utilizing online platforms for remote centralized management, remote fault diagnosis, and then contacting offline teams to carry out on-site maintenance and repair, we are able to minimize operation and maintenance costs and reduce power generation losses.

We have worked with our partners to create an intelligent home photovoltaic cloud platform, which integrates six services, including data analysis, daily monitoring, property security, equipment maintenance, customer relationship maintenance, and after-sales service, and realized the functions of detecting and solving problems and monitoring the full life cycle process of the power station in real time.



Smart energy platform for home photovoltaic monitoring

Solar Power Station Operation Business

We have built an intelligent management platform with our partners, which has been connected to the power monitoring system of the Company's main power stations to gain a real-time and comprehensive understanding of the power generation status of each station, compare the operating parameters of different power stations in real time, and optimize operation strategies. The power station personnel on duty make full use of the background power monitoring system to identify and find faults in operation in a timely manner, and arrive at the site to maintain equipment and eliminate faults as soon as possible to ensure the stable operation of the power station.

During the Reporting Period, we automated cleaning operations at Gaocheng, Liangshan and Bailong power stations, which saved the manpower and cost of traditional cleaning work, improved the power generation and overall efficiency of the power stations, and accelerated the intellectualization process of power station operation and maintenance.

Distributed Gas Heating Business

The Group widely applies intelligent management and control measures in the distributed gas heating business. The equipment terminal can instantly collect project data such as the temperature of return water, start-stop time, indoor and outdoor temperature through sensors. The collected terminal data can be remotely and wirelessly transmitted through the 4G module to the cloud platform, and technicians can manually issue instructions through the cloud platform while reviewing the data to implement well-designed operation strategy. In addition, the cloud algorithm can automatically calculate the optimal operating strategy considered by the system and directly issue instructions, and send feedback of the execution results to the operation and maintenance personnel for evaluation. As an auxiliary heating regulation method, the cloud platform can fully and flexibly meet users' requirements on heating service duration and temperature.

Campus Hot Water Supply Business

The campus hot water supply system we built consists of a renewable energy powered hot water production system, a hot water pipe network system, an ecocampus Internet of Things and Big Data Platform, and a smart campus payment system. The system has product advantages such as high thermal efficiency and sufficient hot water supply, and specialized one-stop energy-saving service capabilities and standardized operation and maintenance management service capabilities.

The campus hot water supply system adopts intelligent terminal equipment with WIFI, which can automatically complete the collection of energy consumption data, automatically generate various forms of reports, charts and systematic audit reports on energy consumption. We hope to use smart and information technology to realize dynamic supervision of energy consumption, energy consumption benchmarking and anomaly analysis to scientifically control the operation mode of energy consuming equipment, and propose the best energy saving operation plan.

We provide customers with an intelligent platform covering campus bathing and other scenarios through the "Longguang Energy Saving" WeChat official account, and are committed to providing customers with convenient services such as campus hot water use, water card recharge, loss reporting, fault repair and other services.



"Longguang Energy Saving" Campus Hot Water Bathing Service WeChat Platform



Multi-energy Synergy and Energy Saving and Emission Reduction

Home Photovoltaic System Business

The main solid wastes generated during the operation of our home photovoltaic system business are colored steel, square pipes and other construction wastes. In order to reduce the environmental impact of the construction of household power stations, we signed an agreement with the supplier, requiring the construction team to "clean up materials after work" and be responsible for the collection, removal, and disposal of waste colored steel, square pipes and other construction wastes. We strictly supervise suppliers to fulfill their environmental responsibilities.

Solar Power Station Operation Business

Solar power generation has become one of the indispensable ways to achieve carbon neutrality goals. During the Reporting Period, through the steady operation of solar power generation business, we actively implemented the policy requirements of "promoting the optimization and upgrading of energy structure" in the national "13th Five-Year Plan", and contributed to the strategic planning of pollution prevention, resource conservation, and energy transformation.

In order to further enhance solar power generation and extend the service life of equipment, we regularly clean equipment parts, track and calculate cleaning benefits, optimize cleaning strategies and improve overall efficiency.

Compared with traditional thermal power generation, we have generated the following ecological and environmental benefits during the Reporting Period¹

CO ₂ Emission Reduction	67,618.22	Tons
SO ₂ Emission Reduction	15.09	Tons
NO _x Emission Reduction	15.74	Tons
Particulate Matter Emission Reduction	3.07	Tons
Standard Coal Savings	24,723.42	Tons
Water Savings	97,634.90	Tons

During the Reporting Period, our solar power plants did not generate hazardous waste; the non-hazardous waste generated mainly includes waste solar panels and domestic waste. We have signed a contract with the manufacturer to recycle and treat the waste solar panels in a unified manner. For domestic waste, we transport the waste to public waste disposal stations in the operating area for disposal. Water usage at our solar power stations mainly includes staff's domestic water use, which comes from municipal water supply system in the operating area. The demand for water is small and there is no issue in sourcing water fit for purpose.

¹Compared with coal-fired power generation, the environmental performance data of coal-fired power generation used in this table are from the China Power Industry Annual Development Report issued by the China Electricity Council in 2020.

Distributed Gas Heating Business

During the Reporting Period, we provided distributed gas heating service for over 50 schools in Shaanxi, Shandong and Hebei Province. By replacing coal and other fossil fuels with natural gas, we effectively optimized the energy structure in the areas where we operated and reduced the emissions of air pollutants such as SO_2 , NO_x , $PM_{2.5}$ and greenhouse gases.

Main Energy-saving and Emission-reduction Measures Adopted in the Distributed Gas Heating Business in 2020

Optimizing Operation Strategy	Reducing natural gas consumption by optimizing operation time and water supply and return temperature without compromising user experience.
Improving the Level of Intelligent Management and Control	Through remote intelligent management and control, we timely adjusted operating parameters in response to changes in weather and working conditions, thereby reducing energy consumption; Remote intelligent management and control effectively reduced labor as well as energy consumption from transportation associated with manual maintenance.
Implementing System Rectification	Using non-heating period to rectify the heating equipment and user terminal pipe network to reduce energy waste such as leakage and energy loss caused by pipe network blockages.
Installing Energy-saving Equipment	Using the most advanced energy-efficient equipment in China, the thermal efficiency can reach above 105%, which is more than 15% higher than the 90% average efficiency of traditional boilers; The energy-efficient equipment currently in use has achieved ultra-low emissions.
1	
Innovative Demand-side Management	The traditional energy cost hosting service model was transformed into operation and maintenance service model for energy supply equipment. By transferring the payment obligation of energy cost to the user, the user's willingness to actively save energy and reduce costs was enhanced, thereby effectively reducing energy consumption.

During the Reporting Period, the natural gas consumption of the Group's distributed heating business was approximately 1.77 million standard cubic meters, equivalent to 2,717 tons of standard coal, reducing NO_x emissions by 20.04 tons and SO₂ emissions by 23.09 tons.



Equipment for distributed gas heating business

Campus Hot Water Supply Business

In the hot water production process, we efficiently use renewable energy such as heat sourced from air and water, and actively respond to the national strategic call for cleaner production, energy saving, emission reduction and climate change mitigation. Compared with traditional coal-fired boilers, using air source or water source heat pump to heat 1 ton of hot water can save 3.69 kg of standard coal and reduce 2.62 kg of CO₂ emissions.

In the operation and maintenance of the system, we use energy consumption dynamic supervision, energy consumption benchmarking analysis and other intelligent energy management methods to automatically generate energy consumption audit reports. Based on this, we formulate scientific energy-saving operation plans to further improve energy efficiency and avoid energy waste.

Environmental Performance of Smart Energy Business

The environmental performances in 2020 of the Group's smart energy businesses are summarized below:

Greenhouse Gas Emissions	
Emissions (Scope 1) ²	3,82
Emissions (Scope 2) ³	921
Emission intensity (Scope 1+Scope 2)	0.1
Non-Hazardous Waste	
Waste solar panel ⁴	65
Production intensity	5.9
Domestic waste⁵	0.
Production intensity	0.0
Resource Consumption	
Electricity ⁶	1,510
Intensity of total energy consumption	60.
Water consumption ⁷	60
Water consumption intensity	2.4

² Distributed Gas Heating Business.

³ Solar Power Station Operation Business and Campus hot water supply business. The calculation of greenhouse gas (scope 2) emission refers to the *Notice on Making 2018 Annual Carbon Emission Report and Verification and Emission Monitoring Plan* issued by the Ministry of Ecology and Environment of China.

⁴ Solar Power Station Operation Business

⁵Solar Power Station Operation Business.

⁶ Solar Power Station Operation Business and Campus Hot Water Supply Business.

⁷ Solar Power Station Operation Business (water consumption consists of power plant employees' daily water consumption).

27.07	Tons CO ₂
1.85	Tons CO ₂
19	Tons CO ₂ /RMB 10,000 revenue
5	Units
91	Units/power station
.9	Tons
08	Tons/power station
0,986	kWh
.86	kWh/RMB 10,000 revenue
60	Tons
42	Kg/RMB 10,000 revenue



Customer First and Quality First

Home Photovoltaic System Business

The Group strictly complies with national policies and industry regulations such as the *Beijing-Tianjin-Hebei Green Electricity Market-based Trading Rule* when developing our home photovoltaic systems business. We have formulated a sound internal policy system to strictly regulate business practices such as product development, service promotion, power station installation, and business sales to enhance our brand reputation and serve customers with care.

In order to improve customer experience and ensure the quality of after-sales services, we have set up 400 toll-free calls and WeChat groups to quickly answer customers' questions. We use the household photovoltaic smart platform to monitor the power station's operating status in real time 24/7 and dispatch service orders as soon as problems arise, and proactively conduct inspections and are committed to repairing faulty stations within 72 hours. In addition, we have purchased property and machinery damage insurance to protect station assets, and conduct follow-up client visits and monthly customer satisfaction surveys on after-sales and new installation services. Our strong operation and maintenance capability has helped us win wide recognition from our customers.

Solar Power Station Operation Business

As of the end of this Reporting Period, we have approved and issued a total of 10 system documents such as *Operation Regulations for Solar Power Plants* and *Safe and Civilized Production Responsibility System,* covering various aspects such as safety, production, quality, and management to ensure that all work can be implemented in accordance with specific standards in an orderly manner.

We have clearly stipulated the time, route and content of the inspection of solar power plant equipment, requiring inspections of 2 square arrays in the photovoltaic area every day from Monday to Friday, and inspections of the equipment in the photovoltaic area no less than twice a month. In special cases such as major defects or equipment breakdown, we increase the number of inspections or fixed-point monitoring as needed to handle the problems properly and in a timely manner. During the Reporting Period, we replaced 65 damaged components to ensure the safety of the power supply system.



Gaobeidian rooftop distributed solar power station

Set up

400 toll-free calls and WeChat groups

Monitor the power station's operating status in real time

24/7

Committed to repairing faulty stations within

72 hours



Gaocheng solar power station

Distributed Gas Heating Business

In the development of distributed gas heating business, we strictly implement national and industrial regulations such as the *Urban Gas Management Regulations (2016 Revision)*, and provide customers with continuous, stable and safe supply of gas that meets national quality standards, and guide customers to use gas safely and economically, and conduct regular safety inspections on gas burning appliances to fully protect proper rights and interests of consumers.

We have formulated management systems such as *Hot Water Unit Operating Regulations* to clarify operating procedures for operators to eliminate potential dangers of safety accidents and ensure safe and stable heating.

During the Reporting Period, the Group continued to improve gas heating services and continuously improved the quality of products and services. During project operation, we have adopted a combination of regular inspections and emergency handling. We conduct regular inspections once a week and handle emergencies or abnormal situations in time to ensure the normal operation of the project.

Campus Hot Water Supply Business

During the operation of campus hot water projects, we abide by local policies and regulations such as the *Notice of Guangxi Zhuang Autonomous Region Price Bureau on Hot Water Fees for Student Dormitories in Our District*, and at the same time we formulated *Hot Water System Equipment Maintenance System* and other system documents to standardize operating procedures, equipment maintenance, safety work and inspection work, so as to provide customers with convenient and reasonably priced hot water supply services.

The Group conducted irregular customer follow-up visits to understand customers' opinions and spared no effort to ensure customers' interests and service quality.

People Oriented and Working Together



Securing Employees' Rights and Benefits

The Group believes that employees are the most precious assets for the Company. We strictly abide by the Labor Law of the People's Republic of China, the Labor Contract Law of the People's Republic of China, and the Provisions on the Prohibition of Using Child Labor, and other laws and regulations related to employment and labor standard. We have developed the Employee Manual and other internal management policies. These policies regulated the recruitment, dismissal, remuneration, promotion, working hours, leave and other employment-related matters. During the Reporting Period, the Group did not violate any relevant laws and regulations.

The Group follows the recruitment principles of fairness, impartiality, diversity and transparency, and signs labor contracts with hired candidates on an equal and voluntary basis to eliminate the occurrence of forced labor. The Group thoroughly assesses the candidates' background through qualification checks, interviews and background checks to avoid child labor. We are determined not to establish discriminatory hiring rules based on candidates' gender, ethnicity, marriage, religion, physical disability, etc., which helps us recruit talents for the Group in a timely and sustainable manner.

In the Employee Manual, we developed detailed requirements for employees' attendance and leave, compensation management, performance management, and welfare system. In addition to statutory holidays, the Group provides annual leave, marriage leave, maternity leave, paternity leave, nursing leave, maternity examination leave, funeral leave and other welfare leaves in accordance with the law, and establishes a leave system for personal leave and sick leave in consideration of employees' personal affairs.

The Group provides different salary scales for different position grades based on job value assessment, so as to build a broadband salary structure that reflects disparities as well as balances job categories and types. The Group sets up performance review and provides appealing opportunities for appraised employees. In addition, we provide employees with benefits such as congratulation presents, bereavement pay, health checkups, injury and illness compensation, supplemental medical insurance, and holiday benefits.

During the Reporting Period, the Group organized diverse and abundant cultural and sport activities to strengthen corporate culture and help employees achieve work-life balance, which enhanced employee loyalty and helped create a cohesive work environment.



2020 Company Annual Conference Events

2020 LongiTech Smart Energy Employees' Data Summary

The Total Number of Employees on Duty in 2020 is 269



Promoting Employee Development

In order to enhance the core competitiveness of the Group and achieve our long-term strategic objectives, as well as to promote the development of our employees and the Group, we hereby formulate and continuously improve the Training Management System, which regulates the commencement and participation process of trainings and includes all employees of the Group at different levels into the training system.





2020 LongiTech Smart Energy Employee Training Contents for Different Types of Employees

Target Audience		Training Content	
	New Employees	 Introducing company culture, relevant policies and job duties to new employees, helping them blend into the team 	
R	Employees in the Business Sector	 Organizing skill trainings, safety trainings, study and exchange activities to help business staffs improve their professional and technical skills 	
ک ې	Mid-level and Senior Management	 Organizing training activities related to the latest listing rules, finance and management approach to enhance corporate governance 	
	All Employees	 Providing employees with internal and external training opportunities while enhancing capacity building of internal trainers Providing corporate culture training for all employees to help them better understand and practice corporate culture and grow together with the Company 	

2020 LongiTech Smart Energy Training Data Summary



Total expenses of employees' training in 2020 was RMB 350,000



Highlighting Occupational Health and Safety

To ensure safety and health is our solemn commitment to all employees. We strictly comply with the Work Safety Law of the People's Republic of China, Fire Protection Law of the People's Republic of China, and other relevant laws and regulations. We have formulated a comprehensive safety training system for each business segment to enhance employees' safety awareness, standardize safety operation procedures and identify and eliminate safety hazards at an early stage through inspection and other measures. During the Reporting Period, there was no work-related injury or work-related fatality.

2020 LongiTech Smart Energy's Safety Systems and Measures for Different Business Segments

Business Segments	
Solar Power Generation Business	 Established the Operation Require the operation Research operation Assess the operation been conducting elector review the process work New employees ne headquarter, region before they can contact
Home Photovoltaic System Business	 Developed relevant standards Require operators t minimize the occurrent
Distributed Heating Business	 Established clear rupatrol inspection, fire Require operation safety inspection b would respond in action
Campus Hot Water Business	 Formulated releva Require staff to op rooms on a daily b

In addition, we stress safety management in the office areas, and established the Office Environment Management System, to properly manage fire and electricity safety. For example, we strictly implement the three-level safety training system. The administrative department organizes employees to participate in fire safety training and drills every year, conducts monthly inspection of the office area fire safety facilities and electrical wiring and equipment, and carries out other activities.

During the 2020 COVID-19 pandemic, we promptly formulated the Pandemic Prevention and Control Manual, and the Notice on Further Improving COVID-19 Prevention and Control Work and other management systems. Through these management systems, the Group implemented the pandemic daily reporting mechanism, improved the daily prevention and control mechanism for employees, strengthened the prevention and control of pandemic risks for visitors and employees on business trips, and made every effort to protect the health and safety of all employees and ensure normal business operations.

Safety Systems and Measures

erating Regulations on Power Safety at Solar Power Plants ation staff to possess the necessary knowledge of safe first aid skills especially for electric shock

ion staff on safe operating procedures; staff who have not lectrical work for three consecutive months or longer need edures and pass the assessments before they can resume

eed to go through three levels of safety education at the onal and power plant levels and pass the assessments nduct work on site

nt inspection system and safety and civilized construction

to regularly inspect photovoltaic generation equipment to rence of safety accidents

ules and detailed operating procedures for hot water unit ire safety management, and emergency response staff to master fire safety knowledge and complete daily before leaving the shift; in the event of a gas leak, staff accordance with the protocols and retreat to safety

ant onsite management systems for the equipment perate according to the protocols and inspect equipment basis to strictly prevent safety accidents



Embracing the Green and Building Our Home

Implementing Green Operation

We promote green office, low-carbon and environmentally friendly operation concepts, and strictly abide by the Environmental Protection Law of the People's Republic of China, Energy Conservation Law of the People's Republic of China, and Law of the People's Republic of China on the Prevention and Control of Environment Pollution Caused by Solid Wastes and other relevant laws and regulations. We have developed comprehensive internal policy system, which strictly promotes management measures related to solid wastes and resource usage. During the Reporting Period, our daily office activity did not cause significant impact on the environment or natural resources. Our office water supply primarily comes from the municipal water supply system in the areas where we operate, and we have no problems in sourcing water that is fit for purpose.

2020 LongiTech Smart Energy's Main Aspects and Management Measures of Green Operation

Main Aspects	Internal Policies	Management Measures
Hazardous Waste	Solid Waste Management System	• We dispose of hazardous waste that has considerable impact on the environment through companies/ agencies that are approved by environmental protection agencies and have hazardous waste operating licenses.
Non-hazardous Waste	Solid Waste Management System	• We collect and categorize non-hazardous waste and store them at designated area; the waste is transported and disposed by the public sanitation department.
Water and Electricity Saving	Office Environment Management System Guidelines for Effective Use of Resources in the Office Water Conservation Management System Energy Saving Management System Office Air Conditioning Energy Saving Control Methods and Temperature Indicators	 We require that no air-conditioning be used when indoor temperature is below 28°C in summer (or higher than 15°C in winter).
Paper Saving	Guidelines for Effective Use of Resources in the Office	 We encourage employees to print documents in smaller font size to save paper and electricity. We promote double-sided copying and printing, using e-mail instead of paper documents as much as possible, and using single-side printed paper for informal document printing. We set up paper recycling boxes to recycle paper by size, for the convenience of second use.



During the Reporting Period, we followed the environmental data collection method used in the previous reporting period. The data collection scope covered our office in Hebei, Beijing and Hong Kong. The Group's 2020 key environmental performance indicators are summarized below:

Greenhouse Gas Emissions				
Scope 1 (from vehicle usage) ⁸	136.63	Tons CO₂e		
Scope 2 (from purchased electricity consumption) ⁹	63.06	Tons CO₂e		
Total emissions	199.69	Tons CO₂e		
Emission intensity	0.74	Tons CO ₂ e/person		
Air Pollutant Emissions (from vehicle usage) ¹⁰				
со	136.07	kg		
NO _x	5.03	kg		
SO _x	0.89	kg		
PM _{2.5}	0.89	kg		
PM10	0.89	kg		
Non-hazardous Waste ¹¹				
Waste paper	13	kg		
Waste paper production intensity	0.05	kg/person		
Waste plastic bottle	15.1	kg		
Waste plastic bottle production intensity	0.06	kg/person		

Greenhouse Gas Emissions		
Scope 1 (from vehicle usage) ⁸	136.63	Tons CO₂e
Scope 2 (from purchased electricity consumption) ⁹	63.06	Tons CO₂e
Total emissions	199.69	Tons CO₂e
Emission intensity	0.74	Tons CO ₂ e/person
Air Pollutant Emissions (from vehicle usage) ¹⁰		
CO	136.07	kg
NO _x	5.03	kg
SO _x	0.89	kg
PM _{2.5}	0.89	kg
PM ₁₀	0.89	kg
Non-hazardous Waste ¹¹		
Waste paper	13	kg
Waste paper production intensity	0.05	kg/person
Waste plastic bottle	15.1	kg
Waste plastic bottle production intensity	0.06	kg/person

⁸ Greenhouse gas (Scope 1) emission calculation based on the National Development and Reform Commission's *the Greenhouse Gas* Emission Accounting Methodology and Reporting Guidelines for Land Transportation Enterprises (Trial), and the Appendix 2 in the How to Prepare An ESG Report from the Hong Kong Stock Exchange.

⁹ Greenhouse Gas (Scope 2) emission calculation based on the Notice on the Development of 2018 Annual Carbon Emissions Reporting and Verification and Emissions Monitoring Plan from the Ministry of Ecology and Environment of the People's Republic of China.

¹⁰ Air pollution emission calculation based on the *Technical Guidelines for the Establishment of Road Motor Vehicle Emission Inventory* of Air Pollutants (Trial) from the Ministry of Ecology of Environment of the PRC and the EMEP/EEA Air Pollutant Emission Inventory Guidebook 2016 from the European Environmental Agency.

 $^{\rm 11}\,{\rm Non-hazardous}$ waste data collection only for the Beijing and Hebei Office.

Domestic waste	56,100	kg
Domestic waster production intensity	208.55	kg/person
Hazardous Waste		
Waste ink cartridge	13	Units
Waste ink cartridge production intensity	0.05	Units/person
Waste fluorescent tube	13	Units
Waste fluorescent tube production intensity	0.05	Units/person
Resource Consumption		
Electricity	103,358	kWh
Electricity consumption intensity	37.35	kWh/office area (m²)
Water consumption ¹²	7,186	Tons
Water consumption intensity	3.15	Tons/office area (m²)
Gasoline consumption (from vehicle usage)	59,663	Liters
Gasoline consumption intensity	221.80	Liters/person
Paper consumption for office work	1,232.37	kg
Paper consumption intensity for office work	4.58	kg/person

¹² Hong Kong Office and Hebei Office.

Building Beautiful Cities

During the Reporting Period, LongiTech Smart Energy worked with Baoding Municipal Government of Hebei Province to promote the Donghu Cultural Center project, which located in the core development area of the Eastern area of the city. The completed Donghu Cultural Center project will have 660 mu of lake area, 250,000 m² of green space, around 70,000 m² of Guan Hanqing opera house and museum. It will also have 310,000 m² of urban protective landscape, which covers 4.68 km² of municipal roads, primary and secondary school education facility, bus station and other public construction and infrastructure projects. The Donghu Cultural Center will realize the advancement of the urban function of Baoding, and enrich the cultural connotation of the city.

In 2020, the Donghu Cultural Center project progressed with high efficiency, with investment around RMB 148,149,000, providing positive environmental impact while enriching the cultural living for local residents.



Provide a leisure and entertainment venue for the public and enrich the history and culture of the area. Regulate the urban ecological environment, beautify the urban landscape, and meet residents' leisure needs. Purify air, eliminate noise, relieve drivers' visual fatigue, and beautify Improve the traffic and transportation network of the city and make local residents' lives more convenient. Optimize the spatial allocation of urban education resources to help improve the quality of basic education. Guan Hanqing opera house Protective Iandscape



Supporting and Helping Each Other, **Focusing on Community Connection**

Supporting the Revitalization of Rural Areas

Our home photovoltaic system business mainly targets at farmers. During business development, we have always taken the farmers' actual needs and interests into consideration. We believe "what is taken from the people is used for the people", and cooperate with government departments to explore new ways to benefit and support the farmers.

We support the farmers to apply for solar power specific loans to acquire start-up capital for purchasing the home photovoltaic system. We help farmers connect the generated power to the national grid, apply for the national home photovoltaic subsidies, and earn profits from electricity sales, which could bring extra income for farmers less the repayment of solar power loans and operation and maintenance costs. In addition, the promotion of home photovoltaic system business can decrease the emission of air pollutants, green rural ecological environment, and promote the development of beautiful rural areas, generating promising social, environmental and economic benefits.

We are committed to maintaining a friendly and cooperative relationship with farmers in our operation areas. During the Reporting Period, we paid visits to the farmers and delivered heartwarming gifts such as Chinese New Year couplets and disinfectant.

Devoting to Charity

During the Reporting Period, we continued to devote resources to charitable causes such as child development.

In 2020, LongiTech Smart Energy donated 50kW boilers, water softeners, pipes, control cabinets and other distributed gas heating equipment to 4 kindergartens, including the Gaobeidian City Juncheng school, for school heating in winter, with a total value of about RMB 190,000.

In addition, we encourage our employees to practice the concept of public welfare and actively serve the community. Our community service data during the Reporting Period are summarized below:

2020 LongiTech Smart Energy's Community Service Data Summary		
Total number of participants in employee volunteer activities	145	Persons
Total hours of employees' volunteering service	8	Hours



Provide gifts of Chinese New Year couplets, disinfectant. etc. to farmers

Joint Efforts in Combating COVID-19

Since the beginning of the outbreak of the COVID-19 pandemic in 2020, LongiTech Smart Energy actively donated money and materials, fulfilling its corporate social responsibility. We continuously carried out anti-pandemic actions and actively engaged in pandemic prevention and control activities in our operating areas via the "Longjitaihe Charity Foundation" (the "Harmony Fund"), established by the Longjitaihe Group Co., Ltd. (together with its subsidiaries collectively, the "Longjitaihe Group").

During the Reporting Period, we fully supported the Longjitaihe Group for fundraising campaigns and jointly donated more than RMB 4.6 million through the Harmony Fund, and contributed to the fight against the COVID-19 pandemic.



Hold our position and fight the pandemic together

Team members of Cloud Families, the home photovoltaic brand under LongiTech Smart Energy, with proper self-protection measures, visited rural areas in Hebei Province and brought pandemic prevention supplies to frontline personnel on duty at village entrances. Besides distributing supplies, our team also helped households that installed home photovoltaic facilities check the condition of the power station, ensuring the residents have constant income while staying at home due to the pandemic.



Donated disinfectant, masks and other pandemic prevention materials to pandemic prevention and control sites

Appendix: Hong Kong Stock Exchange ESG Reporting Guide Content Index

General Disclosures and KPIs	Description	Relevant Chapter(s)
	A. Environmental	
Aspect A	1: Emissions	
General Disclosure	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to air and greenhouse gas emissions, discharges into water and land, and generation of hazardous and non-hazardous waste	Multi-energy Synergy and Energy Saving and Emission Reduction Embracing the Green and Building Our Home
A1.1	The types of emissions and respective emissions data	Environmental Performance of Smart Energy Business Implementing Green Operation
A1.2	Greenhouse gas emissions in total and, where appropriate, intensity	Environmental Performance of Smart Energy Business Implementing Green Operation
A1.3	Total hazardous waste produced and, where appropriate, intensity	Implementing Green Operation
A1.4	Total non-hazardous waste produced and, where appropriate, intensity	Environmental Performance of Smart Energy Business Implementing Green Operation
A1.5	Description of measures to mitigate emissions and results achieved	Implementing Green Operation
A1.6	Description of how hazardous and non-hazardous wastes are handled, reduction initiatives and results achieved	Implementing Green Operation
Aspect A	2: Use of Resources	
General Disclosure	Policies on the efficient use of resources, including energy, water and other raw materials	Multi-energy Synergy and Energy Saving and Emission Reduction Embracing the Green and Building Our Home
A2.1	Direct and/or indirect energy consumption by type in total and intensity	Environmental Performance of Smart Energy Business Implementing Green Operation
A2.2	Water consumption in total and intensity	Environmental Performance of Smart Energy Business Implementing Green Operation
A2.3	Description of energy use efficiency initiatives and results achieved	Multi-energy Synergy and Energy Saving and Emission Reduction Implementing Green Operation
A2.4	Description of whether there are any issues in sourcing water that is fit for purpose, water efficiency initiatives and results achieved	Solar Power Station Operation Business Implementing Green Operation
A2.5	Total packaging material used for finished products and, if applicable, with reference to per unit produced	Not applicable ¹³

¹³ The nature of the business of the Group during the Reporting Period did not involve the use of packaging materials.

Aspect A	3: Environment and Natural Resources	
General Disclosure	Policies on minimizing the issuer's significant impact on the environment and natural resources	Multi-energy Synergy and Energy Saving and Emission Reduction Embracing the Green and Building Our Home
A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them	Multi-energy Synergy and Energy Saving and Emission Reduction Embracing the Green and Building Our Home
	B. Social	
Aspect E	1: Employment	
General Disclosure	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, antidiscrimination, and other benefits and welfare	Securing Employees' Rights and Benefits
B1.1	Total workforce by gender, employment type, age, group and geographical region	Securing Employees' Rights and Benefits
B1.2	Employee turnover rate by gender, age group and geographical region	We considered disclosure in the future.
Aspect E	2: Health and Safety	
General Disclosure	 Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to providing a safe working environment and protecting employees from occupational hazards 	Highlighting Occupational Health and Safety
B2.1	Number and rate of work-related fatalities	Highlighting Occupational Health and Safety
B2.2	Lost days due to work injury	Highlighting Occupational Health and Safety
B2.3	Description of occupational health and safety measures adopted, how they are implemented and monitored	Highlighting Occupational Health and Safety
Aspect E	3: Development and Training	
General Disclosure	Policies on improving employees' knowledge and skills for discharging duties at work. Description of training activities	Promoting Employee Developmer
B3.1	The percentage of employees trained by gender and employee category (e.g. senior management, middle management)	Promoting Employee Developmer
B3.2	The average training hours completed per employee by gender and employee category	Promoting Employee Developmer
Aspect E	4: Labor Standards	
. .	Information on:	
General	(a) the policies; and	Securing Employees' Rights and
Disclosure	(b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to preventing child and forced labor	Benefits
B4.1	Description of measures to review employment practices to avoid child and forced labor	Securing Employees' Rights and Benefits
B4.2	Description of steps taken to eliminate such practices when discovered	Securing Employees' Rights and Benefits

Aspect B	5: Supply Chain Management	
General Disclosure	Policies on managing environmental and social risks of the supply chain	Strengthening Supplier Management
B5.1	Number of suppliers by geographical region	Strengthening Supplier Management
B5.2	Description of practices relating to engaging suppliers, number of suppliers where the practices are being implemented, how they are implemented and monitored	Strengthening Supplier Management
Aspect B	6: Product Responsibility	
General Disclosure	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to health and safety, advertising, labeling and privacy matters relating to products and services provided and methods of redress	Customer First and Quality First
B6.1	Percentage of total products sold or shipped subject to recalls for safety and health reasons	Not applicable ¹⁴
B6.2	Number of products and service related complaints received an how they are dealt with	Customer First and Quality First
B6.3	Description of practices relating to observing and protecting intellectual property rights	Protecting Intellectual Property Rights
B6.4	Description of quality assurance process and recall procedures	Customer First and Quality First
B6.5	Description of consumer data protection and privacy policies, how they are implemented and monitored	Ensuring Information Security
Aspect B	7: Anti-corruption	
General Disclosure	Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to bribery, extortion, fraud and money laundering	Adhering to Anti-corruption
B7.1	Number of concluded legal cases regarding corrupt practices brought against the issuer or its employees during the reporting period and the outcomes of the cases	Adhering to Anti-corruption
B7.2	Description of preventive measures and whistle-blowing procedures, how they are implemented and monitored	Adhering to Anti-corruption
Aspect B	8: Community Investment	• •
General Disclosure	Policies on community engagement to understand the needs of the communities where the issuer operates and to ensure its activities take into consideration the communities' interests	Supporting and Helping Each Other, Focusing on Community Connection
B8.1	Focus areas of contribution (e.g. education, environmental concerns, labor needs, health, culture, sport)	Building Beautiful Cities Supporting and Helping Each Other, Focusing on Community Connection
B8.2	Resources contributed (e.g. money or time) to the focus area	Building Beautiful Cities Supporting and Helping Each Other, Focusing on Community Connection

¹⁴ The nature of the business of the Group during the Reporting Period did not involve product recalls due to safety issues.





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