



CMIC OCEAN EN-TECH

股份代號：0206

Stock Code: 0206

海工基業
OFFSHORE

as BASE

能源興業

ENERGY

as VALUE DRIVER

資本持業

CAPITAL

as INCUBATOR

科技創業

TECHNOLOGY

as ACCELERATOR

全球立業

GLOBALIZATION

as FOUNDATION



環境、社會及管治報告 2019

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

ENVIRONMENTAL, SOCIAL, AND GOVERNANCE REPORT

環境、社會及管治報告

I. STANDARDS OF THE REPORT

This Environmental, Social, and Governance report (the “Report”) provides an annual update on the various aspects of environmental, social, and governance performance by CMIC Ocean En-Tech Holding Co., Ltd. (the “Group”) in the year 2019.

The content of this Report was compiled in accordance with the “Environmental, Social and Governance Reporting Guide” as set out in Appendix 27 to the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited, as well as the actual conditions of the Company. This Report is published annually in each financial year together with the Annual Report of the Company for the year on the website of the Company and HKEx.

II. BACKGROUND INFORMATION ON THE COMPANY

The Group and its global subsidiaries are principally engaged in the asset investment and operations management of offshore engineering platforms, clean energy and technology investments, and the design, manufacture, installation and operation of the products and services of onshore and offshore drilling industries, including rigs, oilfield expendables and engineering services.

III. CORPORATE SOCIAL RESPONSIBILITY (CSR) VISION, ASPIRATIONS, POLICIES AND STRATEGIES

The Group is dedicated to becoming an outstanding corporate citizen in each of the communities it operates in around the world.

“The Group recognises a high degree of social responsibility and awareness in environmental sustainable development as key factors to the enterprise’s persistent growth and success.”

The Group pursues the values of tolerance, openness, reliability and cooperation in both business development and social activities, and has introduced effective measures to ensure full fulfilment of its social responsibility and implementation of its environmental policies. These areas of work involve the Group’s employees, business associates, supply chain partners, and community groups related to the Group’s business.

一. 報告準則

本環境、社會及管治報告(「本報告」)提供華商國際海洋能源科技控股有限公司(「本集團」)於二零一九年度環境、社會及管治各層面表現的年度最新情況。

本報告為根據香港交易及結算所有限公司證券上市規則附錄二十七所載之《環境、社會及管治報告指引》而編寫，以及按照本集團實際情況編寫而成。本報告為年度報告，每財政年度出版一次，並與該年的公司年報同時發佈在公司及聯交所網站。

二. 公司背景資料

本集團及其全球附屬公司的主營業務為海洋工程平台資產投資及運營管理，清潔能源及科技投資，以及設計、製造、安裝及經營陸上和海洋鑽探行業的產品和服務，包括鑽機、油田耗材，以及工程服務。

三. 公司對企業社會責任的願景、抱負、政策及策略

本集團致力於在其營運的全球各區域內成為一個優秀的企業公民。

「本集團堅信，高度的社會責任感與環境可持續發展意識是確保企業業務持續增長和成功的關鍵因素。」

於本集團的業務拓展及社會活動當中，奉行寬容、開放、可靠和合作的價值觀念。本集團引入了有效措施以確保相關的社會責任及環境政策得以全面落實。這些工作涉及到本集團的員工、商業夥伴、供應鏈合作夥伴、以及與集團業務相關的社區團體。

III. CORPORATE SOCIAL RESPONSIBILITY (CSR) VISION, ASPIRATIONS, POLICIES AND STRATEGIES (Continued)

As a responsible corporate citizen, the Group is committed to adhering to ethical standards and carries out the concept of corporate social responsibility through 5 policies in behavioural management, which requires all the Group's employees to participate and support. To this end, Part VIII of this Report describes the Group's performance at the environmental, social and governance aspects for the Year.

三. 公司對企業社會責任的願景、 抱負、政策及策略(續)

作為負責任的企業公民，本集團致力於堅守道德標準，並透過5個行為管理方針，實踐企業社會責任理念，並要求所有本集團員工積極參與及支持。本報告的第八部分就此方向，敘述本年度於環境、社會及管治各層面的表現。



IV. STATEMENT OF THE BOARD

To manage various ESG aspects effectively and efficiently, we have built a solid governance structure for ESG management of the Group, i.e. the ESG governance structure for which the Board assumes the ultimate responsibility and the professional ESG working group (the "Working Group") implements comprehensive supervision.

四. 董事會聲明

為有效及有效益地管理有關環境、社會及管治的各個範疇，我們構建了本集團的環境、社會及管治管理穩健的管治架構，即董事會最終負責、專業ESG工作小組(「工作小組」)全面監督的ESG管治架構。

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IV. STATEMENT OF THE BOARD *(Continued)*

The Board and the ESG working group ("Working Group") are fully responsible for the Group's ESG strategy and reporting, including the formulation of the Company's overall ESG strategy, identification and evaluation of ESG risks, review of ESG management policies, review of ESG plans and goals, and consideration of ESG performance assessment; the Working Group is responsible for execution of daily operations and reporting major ESG issues to the Board. With this ESG management framework and clear governance procedures, the Board can effectively monitor ESG-related opportunities and risks within the Group.

From time to time, we obtain regularly updated information on environmental, social and governance trends and regulations and industry practices. Based on the external social and economic macro-environment and the Company's development strategy, we have always given priority to stakeholders' views, opinions and suggestions on environmental, social and governance management, and will conduct a materiality assessment and discussion on the formulation of environmental, social and governance strategies, determine the Company's risks and opportunities in respect of environment, society and corporate governance, and take the management and improvement of key issues as sustainable development strategy. Through the abovementioned efforts, we have been able to better understand and manage our environmental, social and governance risks, and achieve our goal of creating higher value for all stakeholders.

V. SCOPE OF THE REPORT

The content of this ESG report summarizes the Group's performance in terms of corporate social responsibility based on the reporting principles of "importance", "quantification", "balance" and "consistency". In order to optimize the reporting process and expand the scope of disclosure of the ESG report, the Group has been proactively formulating effective ESG related policies, recording relevant data and implementing and monitoring various measures. This report illustrates the ESG performance of the Group in achieving future sustainable development.

四. 董事會聲明(續)

董事會及ESG工作小組(「工作小組」)全面負責本集團的ESG戰略及報告事宜，包括公司整體ESG戰略制定、識別和評估ESG風險、審核ESG管理政策、審核ESG計劃和目標、審議ESG績效考核；工作小組負責日常營運執行行為及向董事會報告重大ESG問題。憑借此ESG管理框架及清晰的管治程序，董事會可以有效地監察本集團內ESG相關機會及風險。

我們不時取得環境、社會及管治趨勢及規例及行業慣例的定期更新信息。基於外部社會經濟宏觀環境和公司發展戰略，我們一向優先考慮持份者就環境、社會及管治管理的觀點、意見及建議，並會就制定環境、社會及管治策略進行重要性評估，討論並確定公司在環境、社會和公司治理方面的風險與機遇，將重點議題的管理與提升作為可持續發展戰略工作。憑藉上述種種努力，我們得以更充分地了解及管理我們的環境、社會及管治風險，實現我們為所有持分者創造更高價值的目標。

五. 報告範圍

本ESG報告的內容根據「重要性」、「量化」、「平衡」及「一致性」的報告原則概述了本集團在企業社會責任方面的表現。為優化ESG報告的報告程序及拓大披露範圍，本集團一直主動制定有效的ESG相關政策，記錄相關數據並實施及監督各項舉措。本報告說明瞭本集團在實現未來可持續發展方面的ESG表現。

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V. SCOPE OF THE REPORT *(Continued)*

This ESG report covers the main operating activities that the Group deems significant (i.e. the environmental, social and governance conditions in Qingdao, the principal place of operation). The Group's operating sites in Qingdao are as follows:

- (1) Qingdao TSC Offshore Equipment Company Limited (TSC-OE); and
- (2) TSC Oil and Gas Services Group Holdings Limited (TSC-QD).

Unless otherwise specified, this ESG report covers the environmental, social and governance progress and performance in the period from 1 January 2019 to 31 December 2019 (the "Year").

VI. STAKEHOLDER ENGAGEMENT

The sustainable operation of the Group requires the joint efforts and support of all stakeholders. The interests, expectations and concerns of all parties are inseparable from the performance of the Group. Therefore, the Group's goal is to create a sustainable development environment that is beneficial to enterprise development and the well-being for stakeholders.

The Group is striving to promoting communication with its stakeholders. The Group maintains open and continuous communication with relevant stakeholders including stakeholders and investors, employees, customers, community groups, media and government bodies through various means to achieve transparency and develop mutual understanding of each other's aspirations for corporate social responsibility. Through communication with stakeholders, the Group is committed to identifying, assessing and managing environmental, social and governance-related risks, while ensuring that there is an effective internal monitoring system in place to deal with the risks identified, so that the Group can achieve sustainable development.

五. 報告範圍(續)

本ESG報告涵蓋本集團認為意義重大的主要經營活動(即在主要營運地點青島的環境、社會及管治狀況)。本集團位於青島的營運地點如下：

- (1) 青島天時海洋石油裝備有限公司(TSC-OE)及
- (2) 青島天時油氣裝備服務集團股份有限公司(TSC-QD)。

除另有明確說明外，本ESG報告的內容覆蓋二零一九年一月一日至二零一九年十二月三十一日期間(「本年度」)有關環境、社會及管治的進展及表現。

六. 持份者的參與

本集團可持續經營需要所有持份者共同努力和支持。各方的利益、預期和顧慮與本集團的表現密不可分。因此，本集團的目標是締造一個對企業發展及持份者福祉皆有利的可持續發展環境。

本集團一直致力推動與持份者溝通。本集團過往透過多方面渠道與相關持份者，包括股東及投資者、僱員、客戶、社區組織、傳媒及政府機關等保持開放和持續的溝通，以達致公開透明，並互相了解其對企業社會責任的期望。透過與持份者聯繫溝通，本集團致力識別、評估及管理環境、社會及管治相關風險，同時確保訂有有效的內部監控制度以處理所發現的風險，促使集團能夠達到企業可持續發展的目標。

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VI. STAKEHOLDER ENGAGEMENT (Continued)

六. 持份者的參與(續)

Key stakeholders 主要持份者	Main communication channels 主要溝通渠道
Customers 客戶	Visits and meetings 探訪會面 Telephone conferences 電話會議 Customer questionnaires 客戶問卷調查 E-mails 電子郵件
Employees 員工	Employee newsletters 員工通訊 Group intranet 集團內部網絡
Community organisations 社區組織	Volunteer activities 義工活動 Charitable activities 慈善活動 Unscheduled meetings with each organisation 與各組織不定期會面
Shareholders and investors 股東及投資者	Press release/business newsletter 新聞稿／業務通訊 Annual reports 年度報告 Company website 公司網站 Circulars 通函 Conference and communications 會議及通訊

VII. CORPORATE GOVERNANCE

All executive Directors of the Group recognise that good corporate governance is an indicator of company modernisation, as well as a prerequisite to the sustainability of business. Since inception, the Group has invested large amounts of resources and manpower into developing appropriate business management practices according to the needs of the business. The Group continually enhances the essence of corporate governance into its management structures and internal control procedures. The Group is striving to maintain the highest level of ethics, to achieve highest standards or best practices in all aspects of business activities, and to ensure that the Group's operations are fully compliant with relevant laws and regulations. All Directors believe that implementation of comprehensive and high-standard corporate governance allows the Group to achieve greater efficiencies in all aspects of sustainable development, and to safeguard and maximise the interests of stakeholders.

七. 企業管治

本集團各執行董事認為，良好的公司管治是企業現代化的標誌，是企業可以持續發展的前提之一。一直以來，本集團投入大量的資源及人力，針對業務需求來制定適當的企業管理常規，不斷提升公司管治的本質，並將其納入管理架構和內部控制程序，致力保持最高的道德操守，使所有業務活動都能達致最高標準或最佳實踐，並確保本集團的行動能完全符合相關的法律與法規。各董事均認為，通過實現全面和高標準的公司管治，能令本集團於可持續發展的各個議題上更具效率，並能維護及提高持份者的利益。

VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS

(1) Human Resource Management

Employment Policies

The Group has been striving to maintain the equality in employment opportunity. Every vacancy in the Group is publicly advertised online or via other appropriate channels. A fair selection process is conducted on each applicant's competence, skills, etc. The Group will not refuse the job applications because of the attributes such as race, skin colour, gender, language, religion and/or political reason, etc.

In order to strengthen the attractiveness of various positions, the Group's remuneration system is based on job grade and performance. The wages paid by the Group and its other subsidiaries have reached the minimum wage standards of the regions in which the Group is operating. In addition to assuring employees' stable income from the basic salary, the Group also provides bonuses in association with the employee's performance for recognition and retention of outstanding employees.

Furthermore, the Group purchases additional commercial insurance (covering critical illness, traffic accident, etc.) for those employees who have reached a certain level of seniority for offering them additional coverage. In addition, each mainland Chinese employee is entitled to sick leave benefit better than the statutory requirement. While the statutory requirement allows the employees' wages to be deducted by 30% during sick leave period, the Group provides employees with 6 days of paid sick leave in a year during which no wage deduction is required. Other employee benefits include free shuttle bus for pick-up, transport allowances, and call-time allowances, etc.

The Group is striving to promotion of the balancing between work and family and hence does not encourage overtime work. The Group strictly controls the number of overtime hours by requiring a review and approval process when overtime work is required, under which all overtime work must be approved by department managers and abide by the local labour laws.

The Group strictly complies with legal requirements relating to bilateral termination of employment contracts in each of its operating locations.

八. 環境與社會各範疇的績效

(1) 人力資源管理

僱傭政策

本集團一直堅持平等就業機會，每個職位空缺都會透過網上或其他合適的渠道進行公開招聘，甄選過程按照各應徵者的能力、技能等要求公平地進行。本集團不會因為種族、膚色、性別、語言、宗教、政治等因素而拒絕個別應徵者的申請。

為了加強吸納各個職位的人才，本集團的薪酬制度以職級和表現為基礎。本集團及其他附屬公司的工資水平均達到業務當地的最低工資標準，除了保證員工基本薪酬的穩定收入，本集團更提供與員工績效掛鉤之獎勵，用作鼓勵及保留優秀員工。

除此之外，本集團會為部分已達到一定年資的員工購買額外的商業保險（包括重大疾病、交通意外等），以提高對員工的額外保障。而且，每位國內員工可享有優於法定病假的福利，法定的病假期間個人工資須扣減30%，本集團則提供給員工一年共6天的有薪病假，病假期間無需扣減個人工資；其他的員工福利待遇還包括：免費班車接送、交通津貼、話費津貼等。

本集團一直提倡家庭與工作共融的原則，本集團不鼓勵超時工作，加班要求須通過審批流程來嚴格控制加班時數，任何加班都需要獲得部門經理的審批，並須遵守當地的勞工法例。

本集團嚴格遵守各營運所在地關於雙方終止僱傭合約時的法例要求。

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環境、社會及管治報告

VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS (Continued)

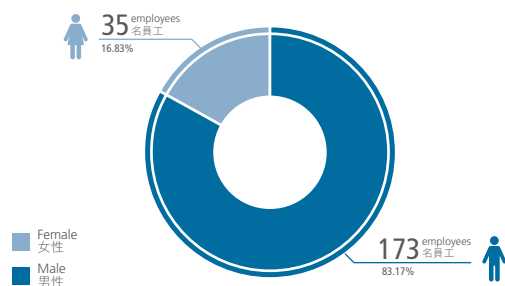
(1) Human Resource Management (Continued)

Employment Policies (Continued)

During the reporting period, the Group did not identify any legal violation or complaint relating to discrimination or other employment practices.

As of 31 December 2019, the Qingdao operation sites covered by this Report had 208 employees, all of whom were full-time employees, there was no part-time employee and 62% of them ranged in the age group of 31 to 45.

No. of employees per gender
按性別劃分的員工人數



The average monthly employee turnover rate for the Year, which represented a slight increase as compared with 2018, was summarised as below.

八. 環境與社會各範疇的績效(續)

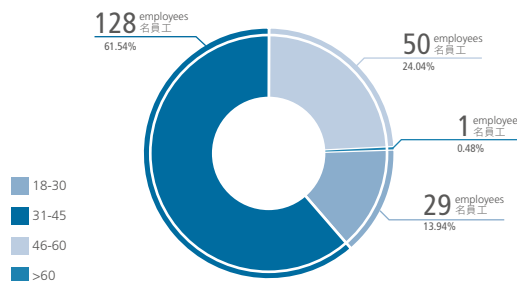
(1) 人力資源管理(續)

僱傭政策(續)

在報告期內，本集團並無發現違反與歧視或其他僱傭相關法例的個案或投訴。

截至2019年12月31日，本報告所包涵的青島營運地點僱用208名員工，所有皆為全職員工，無兼職員工，62%的員工處於31至45歲的年齡組別。

No. of employees age group
按年齡組別劃分的員工人數



本年度的每月平均僱員流失率概述如下，與2018年作比較，本年度的員工流失率略有增加。

		2019 Average Monthly Employee Turnover Rate (%) 2019年 每月平均 僱員流失率(%)	2018 Average Monthly Employee Turnover Rate (%) 2018年 每月平均 僱員流失率(%)
Gender	性別		
Male	男性	1.36	0.97
Female	女性	1.30	1.55
Age group	員工年齡		
18-30	18-30	1.31	1.31
31-45	31-45	1.16	1.29
46-60	46-60	1.75	0.28
> 60	> 60	2.08	0
Overall average:	總平均：	1.35	1.07

VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS *(Continued)*

(1) Human Resource Management *(Continued)*

Employment Policies *(Continued)*

Prohibition of Child Labour and Forced Labour

The Group strictly complies with the employment laws and regulations in each of its operating locations pertaining to child labour and forced labour. As a result, all job applicants are required to provide personal identification documents for verification. Prior to confirmation of employment contracts, the Group allows sufficient time for employees to read and understand the relevant terms and conditions, and contracts are to be signed only when employees fully understand the content.

During the reporting period, the Group did not identify any complaint or legal violation relating to child labour or forced labour.

Career Development of Employees

The Group fulfils the principle of meritocracy and regularly provides its employees with the opportunity for promotion, which is based on a comprehensive evaluation of both employee's work performance and competence. In addition, the Group also emphasises on training of potential talent, and internal training team is appointed with the responsibility for talent development.

The Group is implementing two major training programs:

1. Cedar program: This program is designed to develop talents of high potential and establish teams of high performance. This program offers systematic training courses, and trainees are developed into two roles (managerial and technological) and four types of talent (namely, high potential talent, global key talent, local key talent and technical expert). After accumulation of three to five years of working experience, trainees will develop into the backbone of the Group.
2. Spring rain program: This program is designed to develop the internal training team within the company and to inherit effectively technology and corporate culture of the Group. Through systematic training, the Group firstly trains up a group of influential staff through sharing by a ratio of 1 to 3 mentoring model. They will then be developed to become high performance training team after accumulation of three to five years of experience.

八. 環境與社會各範疇的績效(續)

(1) 人力資源管理(續)

僱傭政策(續)

防止童工及強制勞工

本集團嚴格遵守各營運所在地有關童工及強制勞工的僱傭條例等法律要求。因此，所有應徵者必須提供身份證明文件以作核實。本集團與員工訂立僱傭合約前必將給予充分時間供以閱讀及了解合約內容，在員工充分理解僱傭合約後，方才簽署有關合約。

在報告期內，本集團並無發現有關童工及強制勞工的投訴或相關的違規事件。

員工職業發展

本集團貫徹「用人唯才」的原則，定期提供員工晉升機會。員工的升遷將參考其工作表現和能力兩方面進行勝任的評價。同時，亦注重培養具有潛力的人才，並交由集團內部的培訓人員專責發展其能力。

本集團正在實行兩大培訓計劃：

1. 杉樹計劃：是發展高潛力人才，建立高績效團隊。此計劃為系統化的培訓課程，將人才的能力發展成兩個方向(管理和技術)及四類人才(高潛人才、全球關鍵人才、當地關鍵人才、技術專家)。學員通過三至五年的工作經驗累積，將發展為本集團的中堅力量。
2. 春雨計劃：是培養公司內部的培訓團隊，有效地傳承技術和注入本集團的企業文化。通過系統化的培訓，首先發展一批有影響力的員工，通過1人帶3人的培訓分享模式，並累積三至五年的經驗，成為高績效的培訓團隊。

ENVIRONMENTAL, SOCIAL, AND GOVERNANCE REPORT

環境、社會及管治報告

VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS (Continued)

(1) Human Resource Management (Continued)

Employment Policies (Continued)

Career Development of Employees

In 2019, the total number of trained employees reached 184 at the Qingdao operation sites covered by this Report, with a total of 789 training hours.

The following tables set forth the enhancement in performance achieved by the Group in terms of proportion of employees trained and the average number of training hours per employee during the Year as compared with the last year:

八. 環境與社會各範疇的績效(續)

(1) 人力資源管理(續)

僱傭政策(續)

員工職業發展

於2019年在本報告所涵蓋的青島營運地點，接受培訓的員工總人次達184，合共789個培訓小時。

從下表可體現本年度集團在受訓僱員百分比及僱員平均培訓時數等兩方面的績效維持去年水平的同時略有提升：

Monthly Average Proportion of Trained Employees (%)
接受培訓的僱員的每月平均百分比(%)

		2019 2019年	2018 2018年	Change (%) 變化(%)
Gender	性別			
Male	男性	6.56	6.46	1.55%
Female	女性	7.00	7.19	-2.64%
Employee Rank	僱員級別			
Senior management	高級管理層	6.79	1.92	253.65%
Middle management	中級管理層	8.47	10.78	-21.43%
Junior employee	初級員工	6.41	6.31	1.58%
Overall average	總平均	6.65	6.58	1.06%

Monthly Average Training Time of Each Employee (hour)
每名僱員的每月平均培訓時數(小時)

		2019 2019年	2018 2018年	Change (%) 變化(%)
Gender	性別			
Male	男性	0.28	0.30	-6.67%
Female	女性	0.42	0.32	31.25%
Employee Rank	僱員級別			
Senior management	高級管理層	0.62	0.15	313.33%
Middle management	中級管理層	0.78	0.49	59.18%
Junior employee	初級員工	0.23	0.29	-20.69%
Overall average	總平均	0.31	0.30	3.33%

VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS *(Continued)*

(2) Occupational Health and Safety (OHS)

For continued mitigation of the occupational health and safety impacts incurred from the operations, the Group is committed not only adherence to laws, regulations and industry standards as the baseline, and but also striving to achieve the corporate safety target of “Zero Occupational Disease” and “Zero Incident of Casualties”.

All the Group’s employees at managerial level or above, labour union chairperson and OHS employee representatives are members of the Safety Committee which is responsible for the relevant occupational health and safety matters within the Group. The Group adheres to the “Stop Work” policy: whenever employee is subject to safety risk, all individuals are empowered the right to stop work for preventing the occurrence of work-related incidents.

The Group attaches great importance to employees. As an employer, we are committed to protecting the health and safety of all employees. We have comprehensive safety policies and measures to provide protection for employees. The Group is striving to identify various opportunities for prevention of occupational disease through enhancement of work environment. The Group also actively responds to advice given by employees in relation to occupational health and safety, recognises and rewards those employees who have contributed to the continual improvement in those topics. In addition, the Group also maintains close communication with all employees and relevant stakeholders on occupational health and safety, and establishes multiple communication channels and models to ensure the health and safety of all employees.

The Group provides suitable personal protective equipment (PPE) free of charge to its employees including helmets, safety goggles, protective masks, safety gloves, safety belts and purifying respirators. Employees exposed to hazards of occupational diseases, including those who work in painting and shot blasting processes, are arranged annually for free-of-charge physical examinations by qualified medical institutions for assuring the health conditions of employees. During the Year, the Group has arranged a total of 67 employees to undertake physical examination, from which no case of occupational disease was diagnosed.

八. 環境與社會各範疇的績效(續)

(2) 職業健康和 safety

為了持續不斷地減少營運對職業健康和安全的影響，本集團承諾不單以符合法律、法規及行業規範為底線，更努力實現「零職業病」及「零重大傷亡事故」的安全目標。

本集團各經理級或以上的職員、工會主席、職業健康安全員工代表均出任為安全委員會成員，負責本集團有關職業健康與安全等事宜。並堅持「停止作業」方針：當員工人身安全受到威脅時，任何員工均賦予權力隨時停止作業，以防止工傷事故的發生。

本集團非常重視員工，作為僱主，我們致力於保護所有員工的健康與安全，我們有全面的安全政策和措施為員工提供保障，通過多方面的改善機會，努力改善工作環境，預防職業病的發生；並積極地響應員工提出關於職業健康與安全的意見，肯定及獎勵在職業健康與安全的議題上作出持續改進或貢獻的員工。此外，本集團亦與所有員工和相關持份者在職業健康和 safety 方面上保持密切溝通，建立多種溝通渠道與模式，確保所有元的健康與安全。

本集團免費為員工提供合適的個人勞動防護用品，如：安全帽、防護眼鏡、防護面罩、防護手套、安全帶、過濾呼吸器等。每年更為有職業病危害的員工，包括於噴漆、拋丸等工序的員工，安排合資格醫療機構為他們進行免費身體檢查，以確認員工的健康狀況；於本年度共安排了67名員工進行身體檢查，當中並未有發現職業病的確診個案。

ENVIRONMENTAL, SOCIAL, AND GOVERNANCE REPORT

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VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS *(Continued)*

(2) Occupational Health and Safety (OHS)

(Continued)

In addition, the Group is striving to raising the safety awareness of its employees through promotion on bulletin boards and posting of safety signs. More importantly, the Group has also established safety training and education system and developed an annual training plan at the beginning of the Year. Occupational health and safety training courses are conducted regularly to its employees, training topics include general occupational health and safety education, correct usage of personal protective equipment, and safety precautions for various hazardous work, such as safe handling of dangerous chemicals, safe use of gas, safety of welding and measures for prevention of heatstroke in working environment of high temperature. Taking into consideration of various health and safety training programmes, the total number of the Group's employees trained in the Year was 297, reaching a total of 580 training hours. Moreover, the Group considers the mental well-being of employees to be valuable assets for the enterprises, and has alleviated employees' working pressure through arrangement of various activities such as mental well-being courses and group sharing.

Some of the subsidiaries within the Group (such as Qingdao TSC Offshore Equipment Company Limited), have established and achieved the certification for OHSAS 18001 safety management system. In accordance with the requirements of the management system, the Group has identified clearly the origins of dangers in the workplace and conducted risk assessment at those areas. Relevant companies have evaluated the workplace on the occupational hazards in plants in October 2019 for assuring appropriate controls in all positions identified with hazards. In addition, the Group has established a 6S inspection system for regular check of workplaces and inspection of fire and electrical equipment, as well as formulation of plans for regular maintenance of equipment.

As of 31 December 2019, the Group neither identified any legal violation against the key regulations relating to occupational health and safety, nor any incident of work-related fatality. However, a total of 49 working days lost was recorded due to work-related injury.

八. 環境與社會各範疇的績效(續)

(2) 職業健康和安全(續)

同時，集團致力提升員工的安全意識，除了通過佈告板及張貼安全標誌，更建立安全培訓與教育制度，年初開始制定年度培訓計劃，並且每年定期對員工進行職業健康與安全培訓；培訓主題包括一般職業健康與安全教育、勞動防護用品的正確使用方法、及各類高危工作的安全事項，如：危險化學品安全處理、用氣安全、焊接安全、預防高溫工作中暑的措施等；綜合各類健康與安全培訓，全年培訓共有297人次，達到580培訓小時。此外，本集團視員工的心理發展為企業的寶貴財富，通過開辦心理健康課程、團體交流等活動來舒緩員工在工作上所遇到的壓力。

本集團之部份附屬公司(如：青島天時海洋石油裝備有限公司)建立並獲得OHSAS 18001安全管理體系的認證。本集團根據體系的要求，詳細識別工作場所的危險源頭，並進行風險評估；相關公司已在10月對工廠內工作環境職業危害因素進行檢測評估，確保所有危害的工作崗位都有適當監控。除此之外，集團制定6S檢查制度，定期檢查工作場所，及對設備進行消防與電氣檢測，並制定計劃，對設備進行定期保養。

截至2019年12月31日，本集團沒有發現或收到任何嚴重違反職業健康與安全相關法例的報告，亦沒有發現因工作關係而死亡的事故；但因工傷而損失的工作日數則總共有49天。

VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS *(Continued)*

(3) Supply Chain Management

The Group adopts QHSE criteria for supply management, through which its suppliers are selected with their performance of corporate social responsibility as one of the evaluation criteria. Suppliers are required to sign and comply with the Group's stipulated code of supplier's conduct, which contains clauses relating to environmental protection, anti-bribery, etc. The Group also actively encourages communication with the suppliers through multiple channels (including telephone, e-mail, questionnaire, and training, etc.) to elaborate the Group's requirements of corporate social responsibility by promoting the mutual benefits from fulfilment of the responsibility.

The process of manufacturing onshore and offshore rig equipment is extremely complex and tedious, involving the assembly of fine and complex parts, which requires standardized work processes and stable supply chains to ensure consistency. In order to ensure that the quality of equipment produced is consistent and maintained at a high level, we must have effective supply chain management and maintain it at a high level, and establish a sustainable relationship with suppliers of materials, electronic parts, equipment, services, etc. Therefore, the Group strictly follows internal procedures to communicate with suppliers and ensure that the required goods and services are purchased in a competitive, fair and transparent manner. As quality, environmental protection, service and cost performance are the key indicators for the Group's assessment of suppliers. Therefore, the Group has developed a systematic supplier management system to manage its supply chain to identify, analyze, select and manage suppliers based on clear criteria.

Distribution of Suppliers

The Group has the qualified supplier quality assurance personnel (SQA) to evaluate various aspects of suppliers on regular basis, and to conduct audits on specified suppliers for assuring their operations in compliance with the Group's requirements. As of 31 December 2019, there was a total of 117 qualified suppliers for provision of materials to the Group, and they were mainly based in China (111), the United States (5) and Ireland (1).

八. 環境與社會各範疇的績效(續)

(3) 供應鏈管理

本集團的供應管理採用QHSE準則，在挑選相關供貨商時，以其企業社會責任的表現作為其中的評估準則。供貨商須簽訂並遵守本集團所制定的供貨商守則，當中包括環境保護、反賄賂條款等。本集團也主動鼓勵供貨商進行溝通，透過多種渠道（包括電話、電子郵件、調查問卷及培訓等）向供貨商講解本集團對社會責任的要求，促使雙方都因達到企業社會責任的要求而獲益。

製造陸上和海洋鑽機設備的工序極為複雜繁瑣，涉及組裝微細而繁複的零件，而這需要標準化的工作流程及穩定的供應鏈，以確保貫徹如一。為保證生產的設備質量始終如一，維持在高水平，我們必須具備有效的供應鏈管理，維持在高水平，並與材料、電子零件、設備及服務採購方面的各類供貨商建立可持續的關係。因此，本集團嚴格遵循內部程序，與供貨商溝通並確保所需貨物及服務以具競爭力、公平及透明的方式買賣。由於質量、環保、服務與性價比乃本集團評估供貨商的關鍵指標。因此，本集團制定有系統的供貨商管理制度管理其供應鏈，以基於明確的標準甄別、分析、挑選及管理供貨商。

供貨商分佈

本集團有專業的供貨商管理人員(SQA)定期對供貨商進行多方面的評估，並且每年對指定的供貨商進行審核，以確認他們的營運滿足本集團規定的要求；截至2019年12月31日，共有117家合資格供貨商向本集團提供物料，供貨商主要來自中國(111家)、美國(5家)及愛爾蘭(1家)等地區。

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VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS *(Continued)*

(3) Supply Chain Management *(Continued)*

Evaluation of Social Responsibility/Environmental Performance Aspects

Apart from considering the aforesaid scope of evaluation scope, and also for supporting the reduction in emission of greenhouse gases, the Group will give priority to local suppliers possessing the same conditions. The proportion of local suppliers currently accounts for approximately 95% of the total supply base, overseas procurement will be made only when suitable local suppliers are not available. Moreover, some suppliers are subject to the evaluation of social responsibility/environmental performance aspects, and approximately 18% of the Group's suppliers have fulfilled those evaluation requirements in the year.

Achievement of Supplier Evaluation

During the year, the Group has engaged 4 new suppliers. They had passed through the evaluation prior to procurement, and some of them were additionally required to go through on-site assessment for assuring compliance with the requirements of the Group and its customers. Moreover, each of the Group's existing suppliers is also subject to annual evaluation for continued monitoring of their performance. Those existing suppliers which may have significant impact on the Group's operations are even subject to on-site assessment. In 2019, 2 new suppliers and 41 existing suppliers passed the on-site assessment.

(4) Environmental Sustainability

In response to the environmental risks faced by the country and the national policies, the Group is committed to being a responsible enterprise to implement policies for prevention of environmental pollution, despite the industry in which the Group operates does not cause significant pollution.

The Group's environmental protection policy includes the 3R principle, namely Reduce, Reuse and Recycle, as well as the effective use of materials and energy.

The Group actively responds to employees' opinions on environmental issues, and recognises and rewards those employees who have made continuous improvement or contribution to environmental protection, thereby raising the awareness and sense of responsibility of employees and stakeholders towards the surrounding environment.

八. 環境與社會各範疇的績效(續)

(3) 供應鏈管理(續)

社會責任/環保績效方面的評估

在考慮上述評審範圍的同時，為支持減少溫室氣體的排放，本集團會優先考慮有相同條件的本地供貨商；目前本地供貨商的佔比約95%，只有在沒有合適本地供貨商的時候，才會向海外採購；並且，部分相關的供貨商需接受社會責任/環保績效方面的評估，本年度約有18%的供貨商通過這些評估要求。

供貨商評估成果

本年度新增了4家供貨商，在採購前均通過本集團的評估，部分更被要求通過現場評審，確保符合本集團及客戶的要求。此外，每家現有的供貨商也通過年度評估，以持續監察其表現；對集團營運有重要影響的供貨商更須接受現場評審，於2019年共有2家新供貨商及41家現有供貨商通過現場評審。

(4) 環境的可持續發展

因應國家所面臨的環境風險及國家政策，儘管本集團的行業不會嚴重地造成污染，但作為一家負責任的企業，本集團也致力落實防治環境污染的政策。

本集團的環境保護方針包括3R原則，即減少(Reduce)、再利用(Reuse)和循環再造(Recycle)，及有效地使用材料和能源。

本集團積極響應員工提出與環境範疇相關的意見，並肯定及獎賞在環境保護方面作出持續改進或貢獻的員工，藉此加深員工和持份者對外圍環境的理解及責任感。

VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS *(Continued)*

(4) Environmental Sustainability *(Continued)*

Emission Reduction Policy

I. Reduction of Exhaust Gas Emissions

Environmentally-friendly materials were used when the Group renovates its office buildings, and indoor air quality testing was performed before commissioning of the office. Office operation would commence only when the air quality test results fulfilled the specified standards. In addition, spray-painting and shot-blasting facilities represent the main sources of exhaust gas in the operation process. For mitigating the pollution from the exhaust gas, spray-painting and shot-blasting facilities are equipped with system for ventilation, dust-removal, poison-removal and filtration. The spray-painting facilities adopts water curtain + activated carbon + filter cotton to filter exhaust gas in three stages, and the shot-blasting facilities adopt bag dust removal + cyclone dust removal. The exhaust will be discharged after meeting standards. Moreover, exhaust emissions from the operation are tested on a regular basis.

II. Reduction of Greenhouse Gas (GHG) Emissions

Meanwhile, the Group recognises that the emission of GHG is one of the main causes of the current global warming, and energy consumption is key source of GHG. In order to mitigate the situation of global warming, the Group has adopted various policies and measures to control the consumption of energy, thereby reducing GHG emissions:

1. Prioritise the use of equipment and products of low energy consumption and high efficiency;
2. Consider the use of renewable energy, whenever appropriate;
3. Avoid unnecessary business trips to reduce carbon emission generated by transportation;
4. Prioritise the engagement of local suppliers to reduce energy consumption resulting from the transportation of cargoes;
5. Promote the importance of "Reducing Carbon Emissions" along the supply chain.

八. 環境與社會各範疇的績效(續)

(4) 環境的可持續發展(續)

減少排放政策

I. 減少廢氣排放

本集團的辦公大樓在裝修時採用環保材料，並於使用前進行空氣質量檢測，確保合格後才投入使用。另外，在營運過程中，噴漆廠房和拋丸廠房為廢氣的主要排放源頭；為了減少廢氣污染環境，噴漆廠房和拋丸廠房均設置通風除塵、除毒及過濾系統，噴漆廠房採用水幕+活性炭+過濾棉三級過濾廢氣，拋丸廠房採用布袋除塵+旋風除塵，廢氣合格後排放，並定期對營運時所排放的廢氣進行檢測。

II. 減少溫室氣體(GHG)排放

與此同時，本集團亦深切理解溫室氣體是造成現時全球暖化的元兇之一，而溫室氣體的主要源頭來自能源的消耗。為了減慢暖化的情況，本集團採取多方面的政策與措施以管控能源的消耗，藉此減少溫室氣體的排放：

1. 優先選擇低能源消耗及高能源效益的設備及產品；
2. 如情況合適，考慮採用可再生能源；
3. 避免不必要的差旅，降低因差旅而乘搭交通工具所導致的碳排放；
4. 優先選用本地供貨商，減低因貨物運輸而產生的能源消耗；
5. 於供應鏈當中推廣「減少碳排放」的重要性。

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VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS (Continued)

(4) Environmental Sustainability (Continued)

Emission Reduction Policy (Continued)

II. Reduction of Greenhouse Gas (GHG) Emissions (Continued)

Through achievement of the aforesaid measures, the following table sets out the emission volume from the main GHG emission sources of the Group's operating sites in Qingdao covered by this Report during the year:

GHG Emission Sources		Consumption in 2019	GHG Emission Volume (tonnes carbon dioxide equivalent)
溫室氣體的排放源		2019年耗量	溫室氣體排放量 (噸二氧化碳當量)
Diesel consumption (litres) Mobile source	柴油耗量(公升)流動源	4,830	13.39
Fixed source	固定源	1,500	3.39
Gasoline consumption (litres) Mobile source	汽油耗量(公升)流動源	19,663	53.24
Natural gas consumption (cubic metres)	天然氣耗量(立方米)	3,150	5.29
Acetylene consumption (kg)	乙炔耗量(公斤)	4,068.50	13.77
Power consumption of manufacturing facilities (kWh)	製造設施耗電量(千瓦時)	3,023,515	2,444.81
Total GHG emissions	溫室氣體的排放總量		2,534.43
Production volume (tonnes)	生產量(噸)		1,260.70
GHG Emission Intensity	溫室氣體排放密度		2.01
			(tonnes carbon dioxide equivalent/tonnes)
			(噸二氧化碳當量/噸)

III. Reduction of Wastewater Discharge

The processes and technology adopted in the Group's operations do not involve significant water consumption nor discharge of wastewater. Water is reused in exhaust gas treatment system in spray-painting process. Therefore, the Group's discharge of wastewater mainly involves daily office operations. In view of this, water conservation signs are put up in washrooms, pantries, canteens and dormitories to raise employees' awareness of resource conservation for reducing sewage generation.

八. 環境與社會各範疇的績效(續)

(4) 環境的可持續發展(續)

減少排放政策(續)

II. 減少溫室氣體(GHG)排放(續)

透過實踐以上措施，下表顯示本年度集團於本報告所包涵的青島營運地點內主要溫室氣體源頭的排放量：

III. 減少廢水排放

於本集團營運中所採用的工藝與技術，並不涉及大量用水及廢水排放，噴漆廢氣處理裝置所使用的皆為循環用水；因此，集團的廢水排放主要涉及日常的辦公室運作，為此集團在洗手間、茶水間、食堂以及員工宿舍等各用水區域張貼「節約用水」標誌，以提高員工的節約意識，減少污水的產生。

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VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS (Continued)

(4) Environmental Sustainability (Continued)

Emission Reduction Policy (Continued)

IV. Reduction of Solid Wastes

The Group has maintained a high degree of management to reduce leakage of various oil products, thereby reducing generation of the related wastes. Lean production was adopted to change paints of low consumption in small packages for reducing the amount of hazardous wastes such as waste paint residues and paint containers used. In addition, the Group also advanced the technology for reducing the generation of hazardous wastes, such as the adoption of centrifugal casting process to fully prevent the release of asbestos wastes.

The operating sites covered in this report generated a total of 46.45 tonnes of non-hazardous waste during the year of 2019, the types and distributions of these wastes were set out in the following table. Currently, the main identified hazardous wastes included: waste paint residues, scrap paint containers and waste mineral oils. The cumulative volume of all such wastes reached 4.38 tonnes. The Group recovers waste paint residues through the water curtain system, and reduced waste paint residues by 1.85 tonnes in 2019. The Group also uses cyclone dust removal and bag dust removal to reduce exhaust gas and dust particles. The total amount of waste reduced in 2019 was 3.83 tonnes. In addition, the Group also assisted in waste reduction through improvement of processes/technologies. The total amount of waste reduced in 2019 was 1.01 tons.

八. 環境與社會各範疇的績效(續)

(4) 環境的可持續發展(續)

減少排放政策(續)

IV. 減少固體廢棄物

本集團一直維持高度管理，減少各種油品類的泄漏，從而減少造成相關的廢物產生；並通過精益生產，將用量少的油漆改為小包裝，減少廢油漆渣和油漆桶等有害廢棄物的數量；此外，集團亦藉著提升工藝以減少有害廢棄物的產生，譬如利用離心鑄造的工藝，全面防止石棉廢物的排放。

本報告所涵蓋的營運地點於2019年期間合共產生46.45噸的無害廢棄物，其種類及分佈如下表所示；目前被確認的主要有害廢棄物包括：廢油漆渣、廢油漆桶及廢礦物油，全年累計4.38噸。集團透過水幕系統回收廢油漆渣，在2019年期間所減少的廢油漆渣達1.85噸。集團同時利用旋風除塵和布袋除塵減少廢氣和粉塵顆粒，在2019年期間所減少的廢物總量達3.83噸。此外，集團亦透過改善工序／工藝以協助減廢，在2019年期間所減少的廢物總量達1.01噸。

Type of Waste		Total volume in 2019 (tonnes) 2019 全年總量(噸)	Emission Intensity per tonne of production unit 每噸生產單位 的排放密度
廢棄物種類			
Hazardous wastes	有害廢棄物	4.38	<0.010
Scrap steel	廢鋼材	19.63	0.016
Scrap paper cartons	廢紙殼包裝	2.29	<0.010
Scrap wooden boxes	廢木包裝箱	2.35	<0.010
Domestic wastes	生活垃圾	22.18	0.018

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VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS *(Continued)*

(4) Environmental Sustainability *(Continued)*

Emission Reduction Policy *(Continued)*

IV. Reduction of Solid Wastes *(Continued)*

Handling of Hazardous Wastes

The Group develops the plan for hazardous waste management on an annual basis, and establishes waste quantity targets for all relevant departments. Regular assessment is conducted and appropriate control measures are implemented for waste reduction where necessary. To cope with relevant management efforts, the Group arranges the classification of hazardous wastes, put up signs of hazardous wastes in the storage area, and engages the qualified subcontractors for proper handling.

Reuse of Wastes

The Group keeps strengthening quality control to reduce wastes that resulted from non-conforming products, and is striving to extract steel materials from wastes for “non-production” usage. Through this approach, a total of 3.94 tonnes of steel materials was reused throughout the year. In addition, scrap iron chippings generated during the processing stage was also reused by the Group for casting production, and amounted to a total of 56.63 tonnes for reuse in casting throughout the year.

Recycle of Wastes

For effective handling of recyclable wastes, the Group requires employees to classify relevant wastes and affix them with appropriate labels, which facilitates collection and periodic delivery to the qualified subcontractors for recycling and disposal. One of the examples was the handling of scrap product packaging cartons, the Group follows the abovementioned principle to engage qualified agencies for collecting and recycling of such paper wastes. The total amount of such wastes recycled during the year was 2.12 tonnes.

八. 環境與社會各範疇的績效(續)

(4) 環境的可持續發展(續)

減少排放政策(續)

IV. 減少固體廢棄物(續)

有害廢棄物處置

本集團編製年度有害廢棄物的管理計劃，及訂立各相關部門的廢棄物數量指標，並進行定期評估，必要時採取相應的控制措施，減少廢棄物的產生。為了配合相關管理，集團安排有害廢棄物的分類，在儲存區域貼上有害廢棄物的標誌，最後委託合資格的分包商作合適處置。

廢棄物再利用(Reuse)

集團持續加強質量控制，減少因產品質量不符所造成之浪費；並且致力將廢品中的鋼材回收利用作「非生產」用途；通過此回收全年共節省3.94噸鋼材；另外，於加工過程中所產生的廢鐵屑，集團亦將他們回收及重新用於鑄造生產，於本年度重用於鑄造的重量達56.63噸。

廢棄物循環再造(Recycle)

為了將可再造的廢物有效處置，集團要求員工對相關廢棄物進行分類，並貼上合適標誌，以便收集及定期交給合資格的分包商作回收和處置；其中一個例子應用於廢棄的產品包裝紙箱，集團按此原則委託並交給合資格機構，把收集的紙質類廢品進行循環再生，於本年度回收此類廢品進行循環再生總量為2.12噸。

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VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS (Continued)

(4) Environmental Sustainability (Continued)

Effective Use of Resources

The Group consumes resources mainly through material procurement, product manufacturing and office operations, and has formulated the respective policies for managing effective use of resources and reducing wastage:

Green Procurement Policy:
綠色採購政策：

Environmental safety assessments shall be conducted before procurement of chemicals. Toxic and hazardous products shall be substituted by products that are non-toxic or of low-toxicity; 採購化學品時，應首先進行環保安全評估，以無毒或低毒性產品取代有毒或有害產品；

Green Manufacturing Policy:
綠色製造政策：

The manufacturing process mainly involves consumption of energy, use of raw materials and use of water for exhaust gas treatment. In view of this, the Group has formulated corresponding policies to address issues in these three aspects:
製造過程主要涉及能源的耗用、原材料的使用及廢氣處理的用水，故此政策對應這三個層面：

- i) Newly purchased equipment shall meet the national energy consumption level, and purchase of high energy consumption equipment listed in the national phase-out catalogue is prohibited;
- ii) Technological processes shall be optimised for improving utilisation of steel plates and reducing the amount of scrap steel materials. In 2019, the Group further improved the utilisation rate of steel plates and extruded profiles as follows:

- i) 新採購的設備需滿足國家的能耗等級，禁止採購國家淘汰目錄裡的高能耗設備；
- ii) 優化工藝流程，提高鋼板使用率，減少廢棄鋼材的數量；於2019年本集團都提升了鋼材板材及型材的利用率：

Utilisation rate 利用率		Steel plates 鋼材板材	Extruded profiles 型材
2019		94%	96%
2018		86.5%	92.5%
Annual comparison	年度績效比較	↑ 7.5%	↑ 3.5%

In addition, for the use of materials, the Group is striving to recycling of scrap product packaging cartons. This approach achieves reduction in both waste generation and consumption of paper resources.

此外，在物料的使用上，集團致力循環利用廢棄的產品包裝紙箱，此措施一方面減少排放廢物，同時亦可節省紙質資源。

- iii) In the spray-painting process of the Group's factories, the exhaust gas treatment system currently in use is designed to absorb exhaust gas through water recycling, thereby reducing the use of fresh water supply. This saved 105.2 cubic metres of fresh water throughout the year.

- iii) 在集團工廠的噴漆過程中，目前正在使用的廢氣處理系統，藉着水循環再用以吸收廢氣，減少使用新鮮供水，本年度共節省105.2立方米的新鮮供水。

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VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS (Continued)

(4) Environmental Sustainability (Continued)

Effective Use of Resources (Continued)

Green Office Policy:

綠色辦公室政策：

八. 環境與社會各範疇的績效(續)

(4) 環境的可持續發展(續)

有效使用資源(續)

Reduction in use of office resources includes: (i) using double-sided printing of paper instead of single-sided printing, and priority to consider paperless office operation; (ii) using water-saving devices as much as possible amongst office facilities, such as high efficient flushing toilets and automatic sensor switch faucets, and reminding employees to save water in daily operations; (iii) improving interior design to make full use of natural lighting, such as the use of transparent tiles, and maximising the use of energy-saving devices including LED lights, adoption of acoustic automatic control and solar power supply for public lighting. The current office buildings adopted LED lights during construction. Solar panels are used for street lighting in new factories, light and acoustic automatic controls are used in public area lighting, and newly purchased equipment must meet the national energy consumption level. It is prohibited to purchase high energy consumption equipment in the national phase-out catalog.

減少辦公室的資源使用，包括：(i)將紙張單頁打印設置為雙面打印，並優先考慮無紙化辦公運作；(ii)辦公設施盡量採用省水裝置，如：高效的沖水馬桶和自動感應開關的水龍頭，並在日常營運中提醒員工節約用水；(iii)改善室內設計，盡量利用自然採光，如：採用透光瓦等，並盡量採用節能裝置，如：選用LED燈、公共照明採用聲光自動控制、太陽能供電等。目前的辦公樓於新建時採用LED燈，新建工廠路燈照明採用太陽能電池板、公共區域照明採用光控和聲控、新採購設備需滿足國家的能耗等級，禁止採購國家淘汰目錄裡的高能耗設備。

During the reporting period in the year, major resources consumed by the Group were listed as follows. Electricity remained as the main resource consumed.

於本年度的報告期內，集團所消耗的主要資源概列如下，電力仍是主要耗用的資源。

Resources		Consumption in 2019 2019 全年耗量	Intensity of consumption per tonne of production unit 每噸生產單位 的耗用密度
資源			
Municipal Electricity (kWh)	市電(千瓦時)	3,023,515	2,398.28
Natural gas (cubic metres)	天然氣(立方米)	3,150	2.50
Fresh water (cubic metres)	新鮮供水(立方米)	22,918	18.18
Packaging materials (tonnes)	包裝材料(噸)	117.91	0.09

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VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS *(Continued)*

(4) Environmental Sustainability *(Continued)*

Mitigation of Significant Impacts to Environment and Natural Resources

Green Operating Processes

In addition to the aforesaid policies and measures for reduction of emissions and effective use of resources, all products from the Group have achieved the strict certification by Classification Societies for fulfilment of the environmental protection requirements for offshore products. Moreover, TSC Offshore has established and obtained certification of the ISO14001 Environmental Management System, and has formulated effective procedures to assure minimising environmental risks in its operations.

Environmental Protection Training to Employees

To cope with implementation of the environmental policies and measures, the Group has formulated training programme to employees for continued enhancement of their environmental awareness and competence in the implementation of relevant measures. In the year, the number of employees participated in the environmental protection trainings and trainings on identification, collection, transfer and storage of hazardous wastes reached 176 persons with a total of 350 training hours, this figure is about 24% higher than that achieved in previous year which was 282 training hours, which will reduce environmental risks imposed by the relevant operations in a more effective way.

Promotion of Environmental Protection along the Supply Chain

Suppliers are important partners with the Group. The Group intends to enhance the environmental awareness of its suppliers by taking advantage of its influence in the supply chain. Consequently, environmental performance has also become one of the evaluation criteria during the supplier selection and approval process, thereby enhancing suppliers' awareness of environmental protection and reducing carbon emissions to the environment.

During the reporting period, the Group did not identify any operating site with any legal violation or complaint relating to environment.

八. 環境與社會各範疇的績效(續)

(4) 環境的可持續發展(續)

減少對環境及天然資源造成重大影響

綠色營運流程

除了上述所實踐的政策與措施以減少排放及有效使用資源，集團營運中的產品全都通過船級社的嚴格認證，以滿足海上產品在環保方面的要求；此外，TSC Offshore (青島天時海洋石油裝備有限公司)建立及獲得ISO14001環境管理體系認證，制定有效程序及確保在營運過程中減少對環境造成的風險。

員工環保培訓

為了配合集團環保政策與措施的實踐，本集團制定培訓計劃，不斷提升員工的環保意識及相關措施的執行力；本年度員工參與環保培訓及危險廢棄物辨識、收集、轉移、貯存培訓達176人次，合共350培訓小時，對比去年度的282個環保培訓小時，增加約24%，將更有效減少相關操作所構成的環境風險。

供應鏈環保宣傳

供貨商是本集團的重要合作夥伴，本集團希望藉著在供應鏈中的影響力，提升供貨商的環保意識，故此在選擇及審批供貨商的過程中，環保績效也是相關供貨商的評審準則之一，藉此提升供貨商對環保的意識，減少對環境的碳排放。

在報告期內，本集團並無發現任何營運地點涉及違反環境相關的法例或相關投訴。

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VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS *(Continued)*

(5) Business Ethics

Product Management

The Group has established and implemented the ISO 9001 Quality Management System, and has formulated appropriate monitoring procedures to address corresponding potential product quality risks. All products are required to pass through relevant quality inspection, whereby their design, manufacturing process, installation and testing shall all conform to relevant standards, specifications and technical requirements, as well as satisfy relevant design parameters. In addition, all products are subject to rigorous certification and safety verification by Classification Societies.

The product quality assurance process of the Group is controlled through the following four aspects:

1) *Inspection of Materials*

All raw materials must undergo incoming inspection based on their drawings, standards, specifications and technical agreements. Only materials passing the inspection are allowed for storage.

Raw materials, that are going to be used in products requiring classification, are subject to certification by Classification Societies, and they are allowed for storage and use only after approval.

2) *Manufacturing Process*

Verification and testing are conducted during the manufacturing process. Semi-finished products can only proceed to the next stage after pass result attained.

Manufacturing process for products requiring classification must undergo certification by Classification Societies, and can only proceed to next stage after approval.

3) *Inspection of Finished Products*

Finished products are subject to final inspection and comprehensive FAT testing.

Products requiring classification must undergo certification by Classification Societies and are only allowed for delivery after approval report has been issued.

八. 環境與社會各範疇的績效(續)

(5) 商業道德

產品管理

集團建立及實施ISO 9001質量管理體系，對應各類潛在的產品質量風險，並制定合適監控程序；所有產品必須通過質量檢測，其設計、製造過程、安裝和試驗都必須符合相關的標準、規範和技術要求，並滿足相關的設計參數。另外，所有產品均須接受及通過船級社的嚴格認證及安全驗證。

本集團的產品質量檢定過程通過以下四個方面進行監控：

1) 材料檢查

所有原材料必須依據圖紙、標準、規範、技術協議等進行進貨檢驗，合格後方可入庫。

需要入級的產品的原材料需要經過船級社認證，合格後方可入庫使用。

2) 製作過程

執行過程核對和試驗，經過檢驗合格的半成品才能流入到下一工序。

需要入級產品的製作過程需經過船級社認證，合格後方可流入下一工序。

3) 成品檢查

完工的產品進行成品核對和整機FAT試驗。

需要入級的產品需經過船級社認證，並提供合格報告後才可交貨。

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VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS *(Continued)*

(5) Business Ethics *(Continued)*

Product Management *(Continued)*

4) Nonconforming Product Control

Whenever nonconformities are identified during the quality verification process, the nonconforming product is analysed and processed, and they would be segregated from the manufacturing process.

Apart from monitoring of product quality, the Group is also concerned on the protection of intellectual property. The Group has signed confidentiality agreement with employees for prohibition of employees disclosing product information to unauthorised personnel. For electronic information relevant to customers and own-branded products, such as specifications and drawings, they are encrypted for protection from leakage. Where appropriate, the Group will apply for patents to seek protection from the relevant authorities. The relevant patents obtained by the Group in the year are listed as follows:

Name of product/technology patent 產品／技術專利名稱	Registration authority 註冊機構
A type of intelligent remote control ship deck crane used for ocean engineering 一種用於海洋工程的智能化遙控船舶甲板吊機	State Intellectual Property Office 中國國家知識產權局

八. 環境與社會各範疇的績效(續)

(5) 商業道德(續)

產品管理(續)

4) 不合格品控制

在檢驗過程中發現不合格時，將不合格品進行分析和處理，禁止不合格的產品在製造過程中繼續流轉。

除了監控產品本身的質量，本集團亦關注知識產權的維護。本集團與員工簽訂保密協議，禁止員工對非授權的人士透露產品數據；對客戶及自家產品的規格與圖紙等相關的電子數據，都會進行加密處理以防外泄；對合適的產品，本集團更向相關機構申請專利保護，以下是本年度集團獲取的相關審批專利：

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VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS *(Continued)*

(5) Business Ethics *(Continued)*

Product Management *(Continued)*

4) Nonconforming Product Control *(Continued)*

Despite the implementation of robust quality management, the Group still attaches importance to customer feedback and has established a comprehensive complaint handling system. Sales and project management team will firstly communicate with customers to identify the details of nonconforming situation, then the quality management team will convene the relevant departments for cause analysis and proposal of corrective actions. Eventually the sales and project management team will reply to customers with relevant solution and the implementation status thereof. During the reporting period, the Group did not identify any legal violation or complaint case relating to product responsibility. In the same period, no product was recalled for safety and health reasons. In addition, the Group was awarded from various institutions in the year for recognition of the Group's product quality and technological achievements:

Name of Product Award 產品獎項名稱	Issuing Authority 頒發機構
Certification of intellectual property management system 知識產權管理體系認證	Huazhi Certification Co., Ltd. (華知認證有限公司) 華知認證有限公司

Anti-corruption Measures

Being a responsible enterprise, the Group has always maintained "zero tolerance" attitude towards critical violations of business ethics such as bribery, extortion, fraud and money laundering.

八. 環境與社會各範疇的績效(續)

(5) 商業道德(續)

產品管理(續)

4) 不合格品控制(續)

儘管實行完善的質量管理，本集團仍重視客戶的反饋並制定完善的投訴機制，由銷售及項目管理部負責與顧客初步交流，確認不符合的具體情況；然後質量管理部召集相關部門分析原因並提出糾正措施；銷售及項目管理部將解決方案及執行狀況反饋到客戶。於報告期內，本集團並無發現任何違反產品責任相關的法例或收到任何投訴個案。同期，也沒有產品因安全與健康理由而須要回收。此外，集團於本年度更獲得相關機構頒發獎項，確認集團的產品水平及技術的成就：

防貪措施

本集團作為一間負責任的企業，一直對賄賂、勒索、欺詐及洗黑錢等嚴重違反商業道德的行為，以「零容忍」的態度來處理。

ENVIRONMENTAL, SOCIAL, AND GOVERNANCE REPORT

環境、社會及管治報告

VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS *(Continued)*

(5) Business Ethics *(Continued)*

Anti-corruption Measures *(Continued)*

The Group is striving to provide an integrity business platform and has continuously implemented the following measures, including:

1. In 2012, the Group formulated the “Code of Business Conduct” to which all board members, managers, employees, agents and representatives must adhere; the Group announced and implemented the “Employee Handbook”, which contained the requirements for prohibition of bribery, and has been signed and acknowledged by all employees;
2. The Audit Committee, the Remuneration Committee, the Supervisory Committee and the Nomination Committee have been established under the board of directors of the Group to be responsible for corporate governance;
3. The Group has set up a whistle-blowing hotline through which suspected cases or incidents of business ethics violations can be inquired about or reported, and corrective measures will be formulated to eliminate the root cause of the established cases;
4. In the employment contract, employees are required to disclose conflicts of interest, and no relevant reporting case was received throughout the year;
5. Open tendering policy has been formulated and “comparison of quotations amongst at least 3 suppliers” is required, whereby the supplier with competitive price will be selected;
6. Starting since 2013, procurement personnel must comply with the “Revised Code of Self-Discipline Integrity Conduct for China (including China MRO) Procurement Personnel”;
7. The Group will appoint independent auditing agency to proceed auditing and reporting of listed company on an annual basis, and the content involving the internal control system will be disclosed separately. Subsidiaries will appoint the local auditing agencies to proceed individual auditing and reporting as well as tax calculation in accordance with the principles of the operating regions for enhancement of the Group’s internal control.

八. 環境與社會各範疇的績效(續)

(5) 商業道德(續)

防貪措施(續)

本集團致力提供一個廉潔的營商平台，過往一直執行以下措施，包括：

1. 本集團自二零一二年起已制定《商業行為準則》，並要求本集團公司所有董事、管理人員、員工、代理和代表均須遵守該準則；集團頒佈及實施《員工手冊》，內含禁止賄賂的要求，並已獲得全體員工的簽署確認；
2. 本集團董事會轄下設立審核委員會、薪酬委員會、監察委員會、提名委員會來負責公司管治；
3. 本集團已設立舉報熱線，就疑似個案或在出現相關違反商業道德的情況時，進行諮詢或舉報，並針對成立的案件制定糾正措施來根治原因；
4. 在僱傭合約中要求員工作出利益衝突申報，於本年度並沒有收到相關的申報個案；
5. 制定公開招標政策，採購時須「貨比三家」，選擇性價比最高的作為最終供貨商；
6. 自二零一三年起，採購員須遵守本集團《中國區(含中國區MRO)採購人員廉潔自律行為規範修訂版》；
7. 每年委託獨立的審計機構做上市公司合併報表審計；並將內控制度部分作為單獨內容披露。下屬子公司根據屬地原則，委託當地審計機構進行個別報表的審計和所得稅匯算，以加強和完善集團的內部控制；

ENVIRONMENTAL, SOCIAL, AND GOVERNANCE REPORT

環境、社會及管治報告

VIII. PERFORMANCE OF ENVIRONMENTAL AND SOCIAL ASPECTS *(Continued)*

(5) Business Ethics *(Continued)*

Anti-corruption Measures *(Continued)*

8. The Group will provide a training session on anti-corruption for directors and employees.

During the reporting period, the Group did not identify any reported case or legal violation relating to corruption.

Community Contribution and Engagement

Being an outstanding corporate citizen in the community, the Group intends to connect with the community for sending best wishes and support to the disadvantaged and giving back to the community. Based on this social responsibility, the Group has been expecting to reach out to the community over the years, through volunteer service or participation in regional activities, and communication with local community organisations in form of meetings and other means for understanding their needs and satisfying demands in the regions to the best of the Group's capabilities.

八. 環境與社會各範疇的績效(續)

(5) 商業道德(續)

防貪措施(續)

8. 對董事和員工開展一次反貪污培訓。

於報告期內，本集團並無發現任何貪污相關的舉報及任何違反貪污相關法例的案件。

社區貢獻與參與

作為社區內的一個優秀企業公民，集團希望連繫社區，為弱勢社群送上希望與支持，並能回饋社會。基於這份社會責任，集團多年來希望透過義工服務或參與地區活動等方式與社區接觸，藉著會面或其他方式與當地不同社區組織進行溝通，了解他們需要，並盡量滿足地區需求。