



2014 SUSTAINABILITY REPORT





EXPLORING FOR A SUSTAINABLE HAPPINESS



MEMBER OF **Dow Jones Sustainability Indices** In Collaboration with **RobecoSAM**

PASSION STARTS HERE

our PASSION

TEP

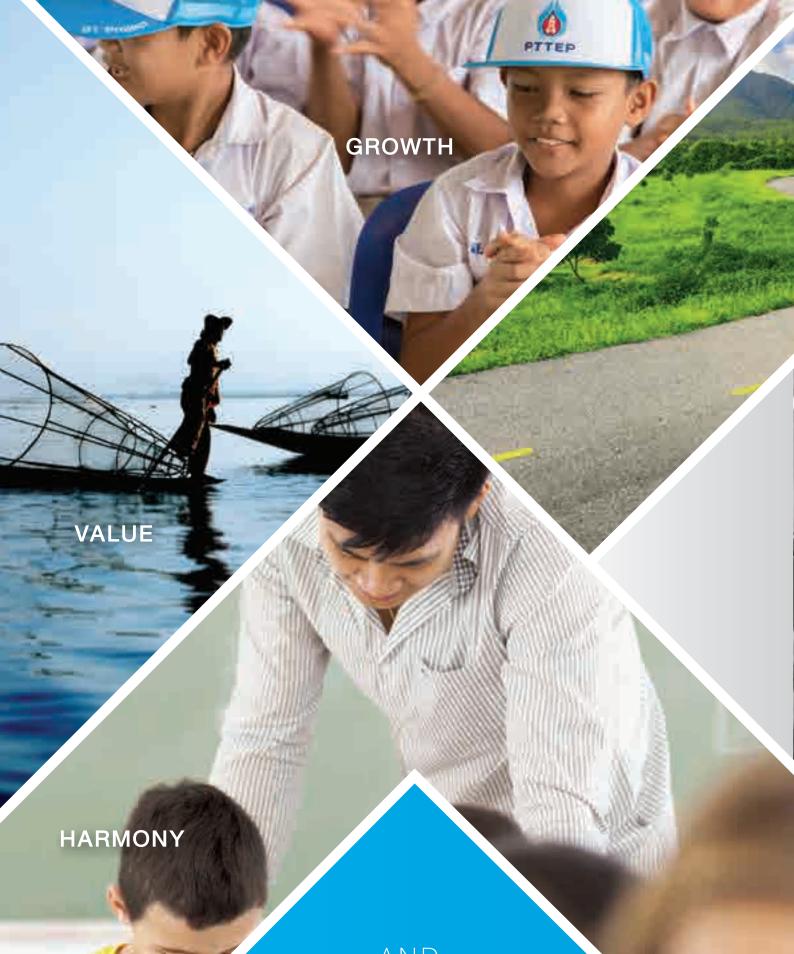
GROWTH

BALANCE

HARMONY

AND **HAPPINESS** Spreads everywhere

VALUE



AND SUSTAINABILITY IS OUT THERE

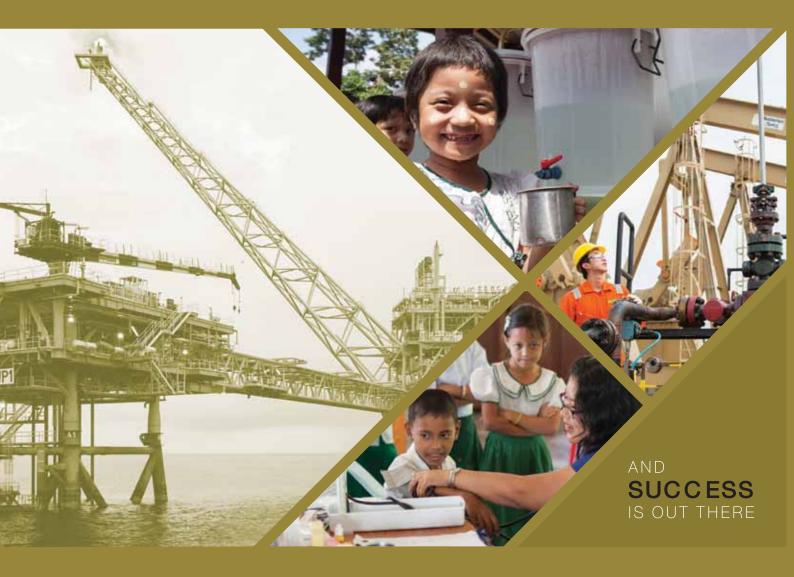


DEDICATION STARTS HERE

1. Mar

our PASSION

ZAWTIKA PARTNERSHIP FOR PROSPERITY



Passion to Explore for a Sustainable Future





YEARS OF EXCELLENCE PTTEP IN MYANMAR



PTTEP has been working with national partners to improve the quality of life for people living in communities across Myanmar as the Company social commitment to the country. Thousands of people have been touched by various programs in community development, healthcare and education.

From building new schools and hospitals, to supporting the healthcare system, and providing educational scholarships to students, we have been supporting the community since launching operations in Myanmar in 1989. These projects have been implemented not only within areas where we operate, but extend to other communities where support is needed.

"PTTEP Myanmar has witnessed how these programs have delivered sustainable results which are truly beneficial to communities," said Kanok Intharawijitr, Former General Manager of PTTEP Myanmar.

COMMUNITY DEVELOPMENT

Supporting the basic needs of communities through socio-economic development programs is the top priority, spread across public infrastructure, utility supplies and religion support.

Under these programs, more than 4,000 students are studying in 13 schools in Dawei areas, where clean drinking water systems have been provided.

"Before, we used to fetch water from the artesian well opposite to the school. We feel that the water from the filtering buckets is much cleaner and healthier for us," said Myo Sat Paing, a Grade 7 student at Kaung Mhu Post Primary School



Besides, several significant infrastructure projects have been initiated which included the construction of schools, community clinics, renovation of hospitals with medical equipment contribution, the installation of hygienic toilets, establishing power supply systems, upgrading roads, and supporting local community's religious centers.

HEALTHCARE

Part of our drive to improve the livelihoods of people in Myanmar also extends to healthcare. PTTEP is leading a program to fight intestinal parasites, which can lead to serious health problems in general.

The "Parasite-Free Schools Initiative" was launched in 2010 and the cumulative number of pupils covered by the program has increased from 622 in 2010 to 6,069 in 2014, resulting in a dramatic fall in the number of cases of infection from 41.5% in 2009 to 15.4% in 2014. In Daminseik Village, Dr Kalayar Htun, a public health specialist from Yangon, visits students every year to teach them about basic health hygiene. She also maintains records of each student so her team can monitor their health over several years.

"We want to reduce the rate of infection as much as possible. If we find students with serious infections, it would be good if we could also check other members of the families, so that we can treat them all. That's my plan for the future," she emphasizes.

ZAWTIKA PARTNERSHIP FOR PROSPERITY





EDUCATION

PTTEP has long been a leading education patron in Myanmar, providing scholarships to local students, state officials and the general public, helping develop the necessary human capital for Myanmar's future development.

Funding from the Company on education programs has increased significantly since it began providing support with a 700 US dollars donation in 2009 as a foundation. Since then, the Company expenditure on education programs has escalated rapidly in recent years, with funding of 374,700 US dollars in 2013 and 418,804 US dollars in 2014.

Hundreds of nationals have benefitted from the funding, ranging from master's degree scholarships at overseas institutes to vocational training. The most recent extensive program was for the provision of scholarships to 70 students to pursue studies in petroleum production technology at the IRPC Technological College in Rayong Province in Thailand.

Thiri Wai, one of the scholars, had long dreamed of becoming a teacher, but thought it would not be achievable because her family could not afford. Thanks to her strong academic record and PTTEP, she can make her dream come true.

"I have no worries now because I am supported by PTTEP," she says. "I intend to do my best to build a better future for me and my family and believe that I can make it."



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10 Message from the President and CEO



As part of our global petroleum exploration and production operations, PTTEP strives for a balance that creates long-term value for business, society and the environment. Our vision is to become a leading Asian exploration and production company driven by technology and green practices.

It is necessary for PTTEP to balance economical, societal and environmental factors as part of our operations to maintain success in the challenging petroleum exploration and production (E&P) industry. From geological conditions that render access to reserves difficult and demand diverse technologies, to areas with increased environmental, social and political risks, we fully recognize that E&P cannot be viewed simply as a profit-seeking endeavor. Instead, an important element of our strategy is to sustainably incorporate social and environmental concerns into our business operations.

PTTEP has adopted a robust risk management system into our business strategy in preparation for potential global economic turmoil. We have also adjusted our organizational structure to increase management efficiency, improve resource management and enhance our financial liquidity. In terms of investment expansion, PTTEP has invested in deepwater petroleum exploration in Brazil - a first step in expanding our investments to Latin America. We acquired Hess Corporation (Thailand) to raise our production capacity and petroleum reserves, and signed a Production Sharing Contract on the MOGE 3 Site in the Republic of the Union of Myanmar. Over the past year, we have achieved success in commencing gas production under the Zawtika Project, effectively delivering gas to both Myanmar and Thailand.

With our determination to conduct business in an environmentally and socially responsible manner, PTTEP has in place a Climate Change Management Strategy that specifies our target to reduce greenhouse gas emissions by 20% from operations and increase energy efficiency by 5% from 2012 as a base year. For these efforts, we were given the "Best CDP Performance Score for Hong Kong and Southeast Asia" Award. In addition, we remain mindful of the health and safety of our employees and contractors; since 2011, we have implemented Safety, Security, Health and Environment (SSHE) initiatives to strengthen our SSHE Culture. Examples of these initiatives include the Step Change in the SSHE Project, the "Life Saving Program," and annual SSHE training and workshops.

During the past 29 years, we have conducted our business under strict adherence to the rule of law, good corporate governance principles, and respect for local cultures, traditions, and human rights. Our standards of procedures and regulations comply with international standards and, in 2014, we adopted a Company-wide Human Rights Policy. These achievements, among others, led to our recognition in 2014 as a Dow Jones Sustainability Indices (DJSI) Listed Company in the World Oil and Gas Sector for the first time, which confirms our conviction in advancing our business along the path of sustainable growth.

PTTEP wishes to thank our shareholders, business partners, relevant government agencies, and management and employees for their continued commitment towards the Company sustainable growth. To prepare for business expansion, we have appropriately aligned our strategies, personnel and resources. We remain committed to conducting business under ethical practices and good governance, in combination with our corporate responsibility to society and the environment. In the coming years, we will strive towards sustainable business growth while delivering results to our stakeholders.

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Mr. Tevin Vongvanich President and Chief Executive Officer

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About PTTEP

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PTTEP is committed to our mission of expanding business in the country and overseas to ensure energy security, while sustainably creating value for our stakeholders.

Sales Revenue increased by 5% compared to last year Net Income in 2014 million US dollars

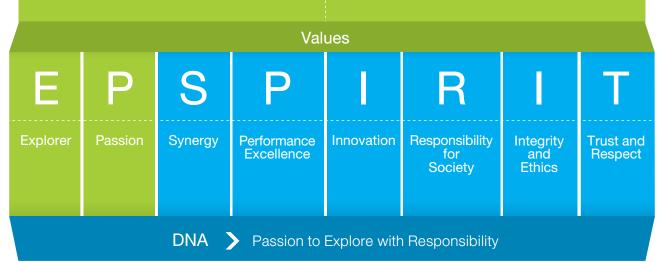
Sales of Petroleum increased from 292,629 321,886 to barrel of oil equivalent per day (BOED)

Social Contribution 44.5 million US dollars

Vision

Mission

Total Employees of 4,547



PTTEP Business

We clearly identify the direction of our business and set achievable targets to ensure energy security for the society now and in the future.

BIG

LONG

Reserves and Resources Life

Target

Increase production capacity to 600,000 BOED by 2020

Maintain proved reserves life (R/P Ratio or 1P/Production) to greater than 10 years and resources life ((2P+2C)/Production) to greater than 40 years

Progress in 2014

- Increase in overall production F from last year by 7.8% as F Zawtika Project was able to C deliver first gas, Montara Field S increased production and we p acquired Hess (Thailand) a Limited, increasing ownership C
- in Contract 4 Project and Sinphuhorm Project

Reserves-to-production ratio (R/P Ratio or 1P/Production) of 5.9 years

- On-going investment expansion in South America, as high-potential petroleum discovery areas with an agreement to acquire 20% of Concession Block BM-ES-23 in Brazil
- Success in restructured ownership of Mariana Oil Sands Project (previously known as Canada Oil Sands KKD Project) resulted in more Contingent Resources (2c)
- Investment in onshore petroleum exploration Concession Block MOGE 3 to enhance exploration capacity

Operate the business to deliver return on capital employed (ROCE) above the exploration and production (E&P) industry average and maintain the Company credit rating in line with Thailand's

Competitive Performance

Bond issue worth 1,600 million US dollars including hybrid bonds worth 1,000 million US dollars and synthetic bonds worth 600 million US dollars 13

> PTTEP Business

Strategic Plans for 2015

As the national petroleum E&P Company, PTTEP main responsibilities are to ensure energy security for Thailand and grow sustainably in line with international standards. However, there are challenges in the industry related to the rapid change of environmental conditions, reduced petroleum fields and increasingly complex geological conditions. Therefore, as part of our sustainable operations, we must strive to advance our knowledge and technology while considering the environment and society.

Moreover, external factors such as decreasing oil prices in the global market have impacted PTTEP business operations. As a result, we redirected our investment strategy to reduce costs, while balancing business growth and sustainable, long-term benefits:

- The cost for maintaining the production rate of projects that are in the production phase will not be reduced.
- Final investment decision will be made for projects that are in the development phase but require large amounts of investment.
- Exploration projects will be focused on areas with low risks and operations will be based mainly on commitments with the government.
- Mergers and Acquisitions will be focused on projects that are moving toward to production phase in order to increase the reserves and revenues for the Company in short term.
- We will incorporate SAVE to be SAFE, a work plan aimed at reducing short and long-term capital through optimization, standardization, integration of work plans, incorporation of new technology, and office-related costs such as consultation, travel, and technology information support.

To achieve these targets, PTTEP has strategic action plans as follows:

A Existing Asset Value Optimization

To optimize the value of existing assets, PTTEP invests in 43¹ petroleum E&P projects in 11 countries, which are classified by phase as follows:

Production: PTTEP focuses on maintaining the production level of our current domestic and overseas assets by enhancing operational efficiency and integrity and exploring concession areas. In addition, the Company aims to accelerate exploration and development in the concession areas to increase petroleum reserves and sustain production. This effort satisfies domestic petroleum demand and generates our present and future revenues.

Development: Projects in the development phase will increase production levels and proved reserves and generate income and add value to the Company in the near future in order to replace projects that have decreasing production rates. PTTEP focuses on completing projects and operates in accordance with targeted plans and budgets, and, in response to decreasing oil prices, we also plan to review the final investment decision on projects that require significant capital for development.

Exploration: Exploration assets are essential for PTTEP sustainable growth as they will increase reserves and production rates in the future. The Company emphasizes the management of our exploration portfolio and acceleration, through our development plans, of projects that have high petroleum potential.

A Growth Investment

Growth investment through new exploration acreage and Mergers & Acquisitions (M&A), especially of new projects ready to yield, to increase the productivity and investments in areas that are significant to our growth platform.

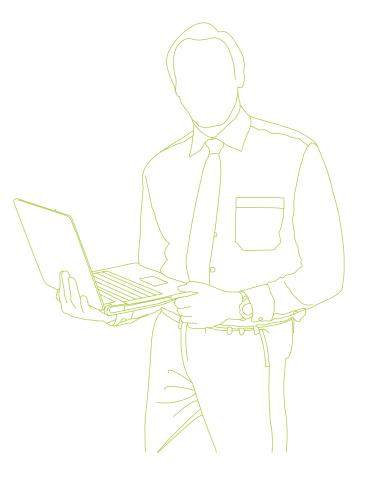
¹ Excluding Indonesia Sadang, Indonesia Semai II and A4/48 & A5/48 projects which PTTEP has submitted relinquishment documents to the respective governments of each project and been waiting for the official approval.

A Enablers

Corporate capability enablers are important to ensure effective operations. PTTEP has enhanced our organizational capabilities in the following areas:

- For finance management, the Company has funded mobilization plans that align with our planned investments, to maintain our debt-to-shareholder equity ratio and debt-to-reserves ratio at appropriate levels and maintain PTTEP credit rating. In addition, we continually monitor currency risk, interest rates and liquidity. The Company is building financial and accounting management capacity, through both processes and resources, to meet world-class levels.
- For acceleration of knowledge, technology and research capacity, the Company needs to be in line with growth plans by creating a Capability and Technology Development Roadmap to ensure we operate in accordance to strategic plans. Such actions include increasing success in exploration, increasing production rate, unconventional operations, and deepwater project development, as well as the development of an R&D Technology Center as sources for research for the Company.
- For systems development, operational procedures and organizational structure should be in line with the strategies and business plans to invest and operate overseas, such as the global operating model/organization, etc.
- For human resources management and organizational capability development, in order to compete internationally, PTTEP not only needs to have sufficient qualified personnel, but we also must constantly further their capabilities and enhance leadership skills, as well as the level of commitment and sense of belonging. In addition, the Company corporate values, which have been molded around EP SPIRIT, is being constantly cultivated. It is a key to development and foundation of growth for the PTTEP.

For sustainable development, PTTEP incorporates social and ► environmental factors into our business decision-making process. Through this process, we can operate sustainably and build trust with business partners, government officials of host countries, communities and employees. We also cultivate a governance risk compliance culture to ensure the effectiveness and efficiency of our operations, and incorporate social, community and environmental consideration into CSR management. We continually work to improve our Safety, Security, Health and Environment (SSHE) system and enhance our SSHE culture, with a target of zero accidents, allowing us to retain our license to operate. PTTEP uses the Dow Jones Sustainability Indices (DJSI) as an indicator to assess the corporate sustainable development at the international level. In 2014, PTTEP was listed as a DJSI member, and we plan to remain listed.



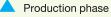
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E&P Projects and Shareholding Structure of PTTEP

Business Overview

PTTEP core business is exploration and production of petroleum in Thailand and foreign countries. As of December 31, 2014, PTTEP had 43¹ petroleum exploration and production projects in 11 countries. 19 projects were under the exploration phase, 2 projects were under the development phase, and 22 projects were under the commercial production phrase.





🗡 Myanmar

- Myanmar M3 Project Participation Interest 80% Operator PTTEP
- ▲ Myanmar M11 Project Participation Interest 52.9412% Operator PTTEP
- Zawtika Project Participation Interest 80% Operator PTTEP
- Yadana Project Participation Interest 25.5% Operator TOTAL
- Yetagun Project Participation Interest 19.31784% Operator Petronas

Thailand

- Bongkot Project Participation Interest 44.4445% Operator PTTEP
- S1 Project Participation Interest 100% Operator PTTEP
- PTTEP 1 Project Participation Interest 100% Operator PTTEP
- B6/27 Project
 Participation Interest 60%
 Operator PTTEP
- Arthit Project
 Participation Interest 80%
 Operator PTTEP
- L22/43 Project
 Participation Interest 100%
 Operator PTTEP
- ▲ L53/43 & L54/43 Project Participation Interest 100% Operator PTTEP
- L28/48 Project
 Participation Interest 70%
 Operator PTTEP

- Myanmar PSC G & EP 2 Project Participation Interest 90% Operator PTTEP
- Myanmar MD-7 and MD-8 Project Participation Interest 100% Operator PTTEP
- Myanmar MOGE 3 Project Participation Interest 85% Operator PTTEP

E5 Project Participation Interest 20% Operator ExxonMobil

- Contract 3 Project
 Participation Interest 5%
 Operator Chevron
- Contract 4 Project Participation Interest 60% Operator Chevron
- G4/43 Project
 Participation Interest 21.375%
 Operator Chevron
- Sinphuhorm Project Participation Interest 55% Operator PTTEP
- ▲ B8/32 & 9A Project Participation Interest 25% Operator Chevron
- ▲ G4/48 Project Participation Interest 5% Operator Chevron
- ¹ Excluding Indonesia Sadang, Indonesia Semai II and A4/48 & A5/48 projects which PTTEP has submitted relinquishment documents to the respective governments of each project and been waiting for the official approval.
- ² Waiting for the official approval from Indonesian government to change the participation interest resulting from Talisman's withdrawal from the project. After the approval, PTTEP will hold 50.75% participation interest (increasing from 34%) and TOTAL will hold 49.25% participation interest of the project.
- ³ PTTEP Australasia Project holds many petroleum blocks which have various participation interest from 20–100%.

- 🗡 Vietnam
- ▲ Vietnam 9-2 Project Participation Interest 25% Operator HV JOC
- ▲ Vietnam 16-1 Project Participation Interest 28.5% Operator HL JOC
- ▲ Vietnam B & 48/95 Project Participation Interest 8.5% Operator Chevron
- ▲ Vietnam 52/97 Project Participation Interest 7% Operator Chevron

Overlapping Area

- G9/43 Project
 Participation Interest 100%
 Operator PTTEP
- MTJDA-B17 Project Participation Interest 50% Operator CPOC

Sustainability Management

PTTEP is committed to building a sustainable foundation for future growth by striving to meet our business objectives, conserving the environment and also generating benefits to society.

In 2014, PTTEP became a listed company, (member) of the Dow Jones Sustainability Indices (DJSI) in Sustainability World Index of the Oil and Gas Industry. DJSI, a family of indexes evaluating the sustainability performance of major companies around the world, is the longest-running global sustainability benchmark that analyzes corporate economic, social and environmental performances. DJSI is the key reference point in sustainability investing for investors and companies alike.

Dow Jones Sustainability Indices In Collaboration with RobecoSAM (

PTTEP 2014 DJSI World Oil and Gas Index member status emphasizes our vision of becoming a leading Asian exploration and production company driven by technology and green practices. Such an achievement brings forth the challenges of maintaining our membership status, as well as continuously improving our sustainability performances. In order to do so, PTTEP will continue to operate our business under the guidance of our sustainability management framework.

${f \hat{f A}}$ Sustainability Management Structure

After undergoing organizational restructuring to accommodate the Company long term strategies, PTTEP established the Technology and Sustainability Development Group to manage the overall picture of sustainable development. The Sustainability Strategy Section is directly responsible for determining corporate level strategies pertaining to sustainability, developing work plans and targets, coordinating and communicating with all functional groups for the adoption and implementation of these work plans. The Sustainability Strategy Section also acts as Secretariat for the Sustainable Development (SD) Working Team, and reports directly to the Executive Vice President of the Technology and Sustainable Development Group (who is also Chairman of the SD Working Team). The SSHE-Sustainable Development Council (SSHE-SD Council), chaired by PTTEP President and CEO, with members composed of all top management from each functional group as well as relevant parties, governs the Sustainable Development Working Team. The SSHE-SD Council endorses & manages policy, authorizes strategies, ensures that sustainability targets are achieved, and provides necessary resources for implementation.

In 2014, the SSHE-SD Council convened quarterly (four times) to review and approve various roadmaps, strategies and projects concerning the Company sustainability operations such as the 2014 DJSI Continuous Improvement Plan, Greenhouse Gas Emissions Reduction and Offsetting Roadmap, Reforestation Plans, Thailand Voluntary Emission Reduction Program (T-VER), and Sustainable Development Communications Plan.

A Sustainability Management

PTTEP Sustainability Management framework provides clear guidelines and expectations that are derived from our Sustainable Development G.R.O.W.T.H Policy. In addition to the sustainability management framework, PTTEP also has a Sustainable Development Guideline, which incorporates the expectations and a way of conduct for business growth, environmental stewardship and social development dimensions. Each division and/or department has its own duty and responsibility for promoting these sustainability standards for organizational excellence.

SD Day Event 2014

PTTEP organized the first SD Day Event in 2012 with objectives to create awareness and build knowledge and understanding of sustainable development for employees and various target groups, as well as portraying "PTTEP's Journey towards Sustainable Development". On 28 October 2014, PTTEP hosted the SD Day annual exhibition event on PTTEP's Journey towards Sustainability or 2014 SD Day under the theme "We All Play a Part". The event clearly demonstrated our PTTEP corporate values (EP SPIRIT) on "Synergy" as the exhibition event included all three sustainability dimensions, aspects and various business drivers from across functional groups known as enablers that PTTEP employs to achieve our vision and mission ultimately, sustainability. There were a total of 10 business enablers (business tools) at the exhibition which included the following: PTTEP Sustainable Development Framework, Policy, Strategy and Achievements on DJSI; Robust Corporate Strategy; PTTEP Corporate Values (EP SPIRIT); Energy Fact - Important facts on Thailand's energy sector; Energy Myths and Truths revealed; Corporate Social Responsibility (CSR); Green Practices; Operational Excellence,

Corporate Governance and Business Ethics; Risk Management & Business Continuity Management; and Internal Control. There were approximately 1,400 participants, including guests from PTTEP and the other companies under PTT Group. SD Day: PTTEP's Journey towards Sustainability



"PTTEP has implemented concrete policies, strategies and guidelines for sustainable development, for the purpose of realizing energy security for the nation and awareness for the environment, society and community. Sustainability is a critical driver in our joint-venture and investment decisions, and we are determined to advance together with the nation in the midst of a rapidly changing world.

This is the third year that PTTEP has organized the SD Day Event: "PTTEP's Journey towards Sustainability" whereby highlighting the fact that for a Company to attain sustainability, this must originate from employees themselves — in the way they think, act and work. Such qualities, apart from creating sustainability, will help the Company achieve our 2020 business targets."

Mr. Tevin Vongvanich President and Chief Executive Officer



Economic Excellence

PTTEP Board of Directors and Management have the responsibility of defining the Company business direction and strategy under our Good Corporate Governance & Business Ethics policy, to maximize benefits for PTTEP and our shareholders.

Good Corporate Governance

The Board of Directors ("the Board") and Management, whose duties and responsibilities are clearly specified under this policy, consciously set good examples for all employees and build respect among relevant stakeholders.

A Governance Structure

The Board is responsible for overseeing PTTEP overall operations and leading the Company in a more sustainable business direction. Consequently, the Board must consider factors such as the economy, society and environment; Board composition and member qualifications; and its legal obligations under relevant rules and laws. Such regulations include: public company laws, securities and exchange laws, rules of the Securities Exchange Committee (SEC), the Capital Market Supervisory Board (CMSB) and Stock Exchange of Thailand (SET), relevant Cabinet resolutions, and best practices in corporate governance. Business plans approved by the Board are adopted by Management, which then play a vital role in implementing strategies to achieve business objectives.

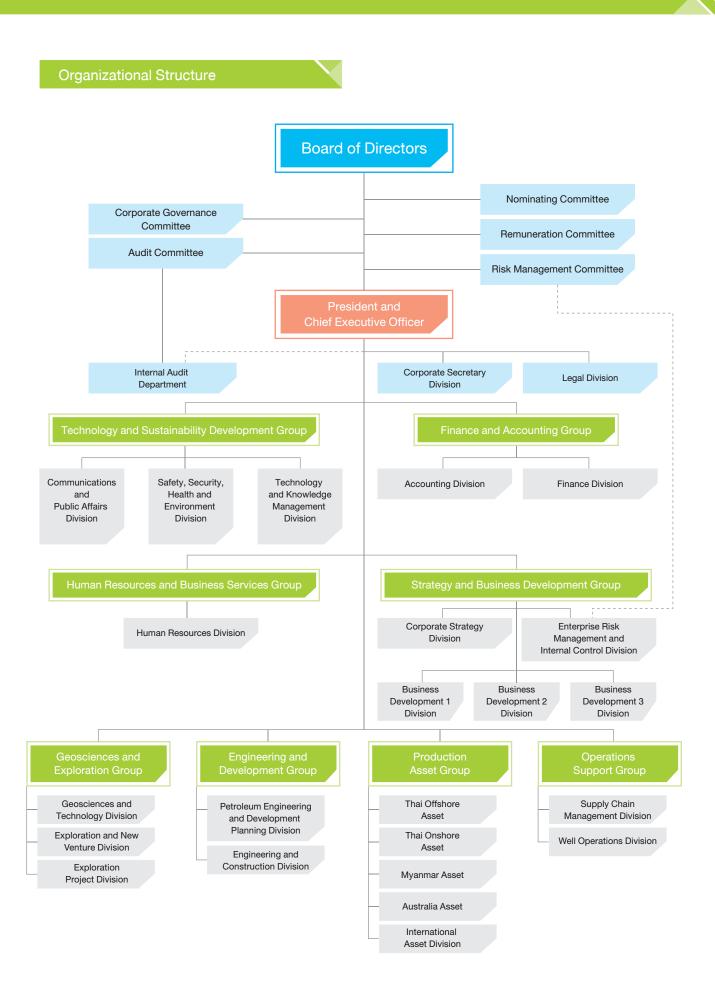
To achieve efficiency and transparency in management practices, PTTEP separates the role of Chairman of the Board from that of the President and Chief Executive Officer (CEO). Furthermore, the Chairman must be a Non-Executive Director, maintaining a balance in the governance of management and business operations.

As of 31 December 2014, the Board consisted of 14 members as follows:

Classification of Board Members	Members
Non-Executive Director (Excluding Independent Director)	5
Executive Director	1
Independent Director (More than 50% of current members must be Independent Directors)	8
Total	14

Note: PTTEP is currently recruiting for an additional Director position.





Economic Excellence

aturalBoard Selection and Nomination

PTTEP Nominating Committee has the primary responsibility of recruiting talents to be the Board of Directors. The Committee evaluates a variety of criteria for a mix of skills, experience, occupations and other specialized qualifications to fill areas where the Board may be lacking and which they consider necessary to our business. The Committee considers candidates from diverse backgrounds and does not discriminate based on conditions such as gender, nationality or other status. Possible conflicts of interest between Board members are also taken into consideration.

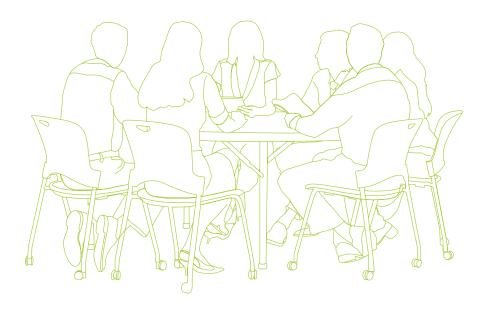
A Board Assessment

PTTEP conducts performance assessments of the Board, Chairman, and the President & CEO on an annual basis. The Board of Directors and Chairman are evaluated by using assessment forms and scores calculated from Board Performance Targets; the President and CEO is assessed according to the Performance Agreement previously approved by the Board, which also incorporates the Company KPIs during that year to enable a straightforward and transparent process.

${f ar{eta}}$ Communication with the Board of Directors

The Board of Directors holds regular monthly meetings, with additional sessions held as required. Meeting agendas are predetermined and relevant materials and information are distributed before hand to facilitate decision-making during Board meetings. In 2014, there were a total of 14 Board Meetings and 84 agenda proposals submitted for approval, comprising issues such as organizational restructuring, the strategic direction and policies of PTTEP operations, annual budget and financial statements, and potential business strategy adjustments to respond to the oil price crisis. The Board also discussed investments in various projects, participation in the Private Sector Collective Action Against Corruption (CAC), and revisions to the CG&BE policy. On governance-related matters, the Board discussed nominations, elections and appointments of Directors, Sub-committees members and Vice-Chairmen; performance assessments of the Board; and revisions or new issuances of Company regulations, such as the revisions to the Risk Management Committee regulations in 2005 and regulations issued on the management of investment projects in 2014.

PTTEP has established an electronic communication channel for our minor shareholders to freely communicate with Independent Directors and enquire about diverse issues such as the Board's current activities, good governance practices and auditing, etc. Minor shareholders can also contact the Corporate Secretary Office or the Investor Relations Division directly for information. Furthermore, during the annual general meetings of shareholders, minor shareholders have the opportunity to ask questions and express their opinions related to the Company, the Board, and Senior Management. In this way, PTTEP works to build trust and open communication among our stakeholders.



PTTEP believes that it is essential for a sustainable business to operate under responsible corporate governance and business ethics. This belief is reflected in the values and culture of our Company, and in our conduct towards our employees, suppliers and shareholders.

Business Ethics and Human Rights

A Business Ethics

All PTTEP management and employees conduct business according to the principles of our Company-wide CG&BE policy. The Board of Directors assumes direct responsibility for communicating CG&BE issues across the Company to ensure compliance. We make available various activities and e-learning channels through the internet and mobile devices, and administer a knowledge test to gauge understanding of our CG&BE policy. A total of 2,737 management and employees, or 70% of PTTEP personnel, have so far participated in CG&BE activities and passed the test. We will integrate these findings into relevant planning processes in 2015.

Apart from our compliance with CG&BE, PTTEP follows the Ten Principles of the United Nations Global Compact, which defines core values in the areas of human rights, labor standards, the environment and anti-corruption in business practices. PTTEP has in place policies, strategies and committee with clearly established mandates to uphold these commitments.

Good Corporate Governance & Business Ethics (CG&BE) Workshop



We regularly hold CG&BE workshops to review employee understanding of CG&BE principles. The Director of the Corporate Governance Committee, President and CEO, and Management of Functional Groups attend all workshop sessions to demonstrate their own commitment to the policies, with the expectation that every employee will display similar responsibility. The workshop incorporates fun and creativity into interactive discussion prompts and work-related role-playing scenarios, and provides opportunities for employees to engage and share their thoughts in each case. Ultimately, the purpose is to promote awareness of ethical business practices according to CG&BE that employees can later incorporate into their daily work lives.

In 2014, we organized a total of six CG&BE workshops that were attended by 699 people, mainly management and employees of functional groups, as well as management and employees of PTTEP S1 Project. Based on our evaluation results, we found that employees displayed a 44.96% increase in understanding of CG&BE.

Economic Excellence

Anti-Corruption



PTTEP believes that an integrated management mechanism that covers all aspects of business is necessary to combat corruption, and this key principle is reflected in our CG&BE policy. In 2014, we established a committee to revise our corruption policy as it related to issues such as anti-corruption, political neutrality, conflicts of interest, procurement and contracts, receipt of gifts and entertainment and other benefits, and prevention of money laundering.

Furthermore, PTTEP has signed on to become a member of the Thailand Private Sector Collective Action Coalition Against Corruption (CAC). As part of our membership, the Director of the Audit Committee was appointed as Internal Auditor during the self-appraisal of our Anti-Corruption measures, which covers four areas: 1) Policy-making 2) Policy Implementation 3) Monitoring of Policy Implementation and Effectiveness and 4) Public Reporting and Communication of Stakeholder and Employee Expectations. On 4 July 2014, PTTEP received approval from the Board of Directors of the CAC to become a "Certified Company", reaffirming our commitment to fighting corruption in all forms. Further details are provided in our 2014 Annual Report under the Good Corporate Governance section.

🛱 Human Rights

In 2014, PTTEP announced the implementation of a Human Rights Policy to demonstrate our standing commitment to upholding basic human rights principles, by respecting local laws and regulations, cultures and traditions, and promoting respect and honor in all conduct with our employees through non-discriminatory practices. Additionally, we only do business with industry peers who share our commitment to human rights.

We are currently in the process of developing a concrete Human Rights Framework that will allow all relevant committee to streamline human rights issues into Company standards, from human rights risk assessments and performance tracking, to transparent evaluation procedures. The Framework will also align with the Human Rights Due Diligence Process of the International Petroleum Industry Environmental Conservation Association (IPIECA), the Ten Principles of the UNGC, and the Universal Declaration of Human Rights.

Grievance Mechanisms

PTTEP provides our employees with a confidential CG Hotline through which they can anonymously report corrupt or unethical employee behaviors. In 2014, PTTEP received eight reports via the CG Hotline, though these reports did not significantly impact our image or property. We thoroughly investigated six of these cases and shared results with the reporter, and issued appropriate warnings and punishments to offenders in accordance with the Company policy. Two cases are pending investigation; however, these cases are not related to the right of employee congregation, procurement negotiations, employment termination, child labor or forced labor. Effective enterprise risk management enables PTTEP to identify risks throughout their operations and prevent impacts to, safety of employees and contractors, business, environment and society.

PTTEP received a full score for the risks management section in the Dow Jones Sustainability Indices.

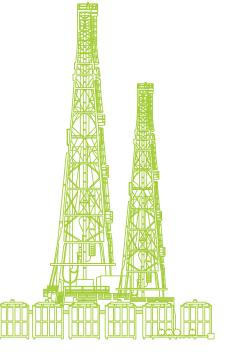
Dow Jones Sustainability Indices

In Collaboration with RobecoSAM 🐽

Risk and Crisis Management

PTTEP oversights risks through three types of the committee: 1) the Risk Management Committee, whose responsibilities are directing and monitoring every aspect of risk management for PTTEP 2) the Operation Risk Committee, whose responsibilities are governing and monitoring operational risks and 3) the Management Committee, whose responsibility is to monitoring the PTTEP corporate risk profile and impacts to business performance.

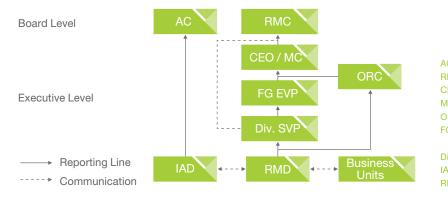
The PTTEP corporate risk profile identifies key risks throughout the Company, including strategic and portfolio, financial, stakeholders, operational and major project risks as well as emerging risks such as the outbreak of Ebola virus in the areas near operating assets and the fluctuation of oil prices. Risk Management Department and management in each business unit are closely monitoring their performance and key risks which will be reported to Risk Management Committee every quarter. The Key Risk Indicator (KRI) is identified in each risk area to provide early warning of any unexpected situation. The KRI is monitored on a monthly basis through the PTTEP corporate risk profile which is registered in SAP Governance Risk Compliance (SAP GRC) and results are regularly reported in the Risk Management Committee meetings.



Economic Excellence

A Risk Management Approach

PTTEP risk management process consists of three lines of defense: 1) Executives and employees in each Business Unit 2) Risk Management Department and committees who are responsible for governing the management of risk, such as the Operation Risk Committee, Management Committee and the Risk Management Committee and 3) Internal Audit Department. PTTEP applies bottom-up and top-down approaches to implement, deploy and communicate risk management to executives and employees in each business unit — augmented by tools and methods including risk map, risk profile, bow-tie analysis, risk satellites, sensitivity analyses and SAP GRC — to enhance the effectiveness of PTTEP risk management process.



C	=	Audit Committee
MC	=	Risk Management Committee
EO	=	Chief Executive Officer
IC	=	Management Committee
RC	=	Operation Risk Committee
G EVP	=	Functional Group
		Executive Vice President
iv. SVP	=	Division Senior Vice President
٩D	=	Internal Audit Department
MD	=	Risk Management Department

In 2014, PTTEP improved enterprise risk management effectiveness by initiated Risk Management System which was comprised of policy, standard and guideline for consistently implementing risk management practice across the Company.

Operation Risk Management

PTTEP Operation Risk Committee (ORC) is responsible for managing operation risks to ensure safe operation to employees and contractors and environment in each activity and providing recommendation to improve operation efficiency, quality and complete within timeframe. Risk owners must monitor and report highlighted issues to the Operation risk committee quarterly.

As a result of strong leadership and commitment from the Risk Management Department and Top Management from each business unit, PTTEP was able to finish the project and delivered the gas to Myanmar as planned without major accidents in 2014.

${\buildrel \ }$ Emergency and Crisis Management

PTTEP approach for responding to emergencies and crises depends on the characteristics and severity level of each situation. PTTEP uses the Emergency and Crisis Management Standard as a guide for the development of response plans such as Emergency Management Plans (EMPs) and Crisis Management Plans (CMPs) to respond to such situations.

In 2014, we did exercise our EMP for four main assets: Arthit Project, Bongkot North Project, Bongkot South Project and S1 Project. Furthermore, once a year, we exercise our corporate CMP for the executives involved in our Corporate Crisis Management Team (CMT). The exercise in 2014 was based on simulation of crisis occurred overseas and we also tested a software platform used as a tool to systematically support crisis management.

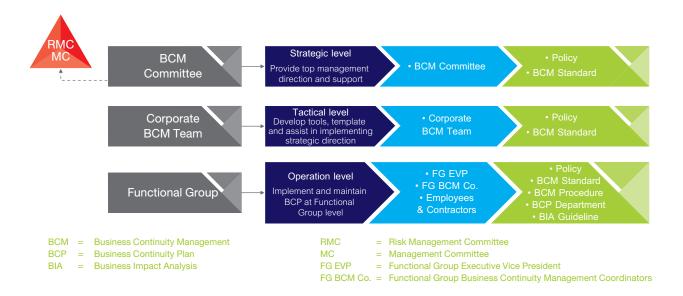
A Business Continuity Management

To achieve business objectives, it is essential that we embed business continuity throughout our business and operation areas. The emergency and crisis events, such as natural disasters, can directly or indirectly affect our business or relevant stakeholders and disrupt normal operations. Thus, it is very important in maintaining business or operation resilience to quickly respond to such emergency or crisis situation and promptly recover the business. Our Business Continuity Management System (BCMS) objectives are to protect people, organization, brand and reputation, the interests of our stakeholders and the wider community, to mitigate the risks from events that disrupt operations and businesses, to minimise non-compliance risks, and to continually improve the organization's business continuity capabilities. The Business Continuity Plan (BCP) implementation and the annual exercise program for key business and operations areas, both domestic and overseas, have assured effective PTTEP BCMS.

Business Continuity Management Structure and System

Our BCMS has three levels: Strategic, Tactical and Operational. The Business Continuity Management Committee, Corporate BCM Team, and employees ranging from executives at the Functional Group level to employees and contractors are all involved in maintaining PTTEP business continuity.

PTTEP BCMS was developed in alignment with ISO 22301, focused on Plan-Do-Check-Act, where each process contains various activities that support the continuous improvement of the BCMS.



Readiness for Business Continuity Management

In 2014, PTTEP developed BCPs, including exercises, for domestic and international projects, such as engineering and development, operational support, finance and accounting, IT support, building and facilities management, business services, Myanmar assets, etc. Moreover, PTTEP provided training related to the fundamental knowledge of business continuity and roles and responsibilities to 40 BCM Coordinators in 2014. A number of BCM communication, to raise BCM awareness, were made regularly. In 2015, we also plan to expand the scope of training to cover other personnel whose work is related to business continuity management.

Economic Excellence

Business continuity management under the shutdown of Ministry of Energy and PTT Group Building Complex

PTTEP normal business was disrupted by political unrest that occurred from December 2013 to May 2014. The shutdown of several governmental agencies' offices including the Energy Complex, which houses the office of the Ministry of Energy and head office of PTTEP and companies within PTT Group. As a result, PTTEP Business Continuity Management Plan was activated to respond to the office disruption.

We carefully selected and set up alternative offices, where in safe location and equipped with the necessary infrastructure and communication, for each function. Executives from each function were involved in the Emergency Management Team (EMT) and Crisis Management Team with responsibility to closely monitor the situation and other issues that both protect staff, reputation and undertook business continuity actions.

Our Business Continuity Plan helped us quickly resume key processes and activities, and reduce impacts to employee health and safety, revenue, compliance, and our reputation. During 21 weeks of crisis, PTTEP was able to operate effectively without significant impacts to the Company.



PTTEP fully realizes the important roles of our suppliers in advancing the Company sustainable growth, and we highly value management practices that demonstrate social responsibility. Our cooperation with suppliers is based upon a foundation of fairness, legal compliance, and good corporate governance and ethics, which as a whole contribute to fair competition and respect for local rights, and ultimately create lasting shared value.

Supply Chain Management

		Results	2014	2015	
Key Performance Indicators	2012	2013	2014	Target	Target
Cost reduction from various	110.5	13.35	76.25	12	43
projects to increase supply chain					
efficiency (Million US dollars)					

$\overset{ar{}}{ oldsymbol{eta}}$ Supply Chain Management Approach

PTTEP emphasizes efficiency in our supply chain management to reduce social and environmental risks, as well as supplier management risks that may negatively impact stakeholder confidence in our business operations. Our supply chain management consists of the initial vendor registration; pre-qualification assessments for new suppliers; procurement, monitoring and evaluation of supplier performance; and supplier relationship management that also includes contract management strategies. We procure our goods and services from reliable suppliers that align with Company requirements and reasonable values which can respond swiftly to the technical, safety, security, and commercial needs of the Company including management of Environment, Social and Governance (ESG) PTTEP is in the process of improving our procurement practices to align with PTT Group's Operational Excellence Management System (OEMS). The Company has established a procurement policy and strategy for 2015 to 2019 and an annual procurement plan that details the standards of contractual arrangements for each group of goods and services. We have also revised the approval process by evaluating risks at each stage, established a risk mitigation plan and a regular monitoring assessment, and identified supplier performance indicators, such as on-time product delivery, which will also be used to evaluate the performance of procurement employees. 29

Economic Excellence

PTTEP conducted a data analysis to evaluate the overall performance results of our supply chain management. We first analyzed the procurement data to determine risks. These results were used to identify suppliers' classification and came up with a "Critical Suppliers" group that posed a high risk to PTTEP business operations. In this way, we will be effectively prepared to handle the risks emerging from the latter group.

Critical Suppliers 2014



Critical Suppliers 18 suppliers 0.51% of total suppliers



Procurement Value of Critical Suppliers 883.7 million US dollars 47.24% of total procurement value

Pre-Qualification Assessments of Suppliers in 2014

Number of new suppliers who received pre-qualification assessments	209
Total number of suppliers who received pre-qualification assessments	561
Number of suppliers not approved during the pre-qualification assessment stage	8

In 2014, we developed the PTTEP Vendor Sustainable Code of Conduct to cover four main issues: Business Ethics, Human Rights, Occupational Health and Safety, and Environmental Management. We have applied the Code of Conduct to the vendor pre-qualifications to assess all new suppliers whose contract value is greater than 62,500 US dollars and/or have high operational risks. PTTEP began utilizing the Vendor Sustainable Code of Conduct in 2014. However, we plan to evaluate supplier performance against this code with the critical supplier group.

Supply Chain Risk Management

Our approach to supply chain risk management, applied to suppliers with procurement value over 62,500 US dollars considers factors such as technical capacity and quality, health and safety, security, the economy, and ESG. The process addresses important supplier practices that are conducted poorly, could negatively impact PTTEP operations in terms of safety, financing and reputational risks, including project delays, negative media coverage, illegal activities, oil spills and workplace injuries or deaths. In 2014, 79 of PTTEP Critical Suppliers received ESG Risk Assessments.

Monitoring and Evaluation of Operations

In 2014, PTTEP carried out on-site SSHE assessments and audits for 12 high-risk suppliers from four functional groups namely Engineering and Development, Maintenance, Logistics, and Drilling. Those suppliers who did not pass the assessments and audit had to submit a Corrective Action Plan to align their operations with PTTEP SSHE Standards.

In 2014, 2.95% of the total domestic and overseas procurement activities did not comply with the procurement regulations (procurement non-compliance). In 2015, PTTEP intends to maintain the level of procurement non-compliance at under 3% through the following methods:

- Organizing procurement training for the users and contract holders to enhance their understanding of good procurement practices, as well as their roles and responsibilities for contract management
- Developing a contract management system to prevent overspending and overextension of contracts, which are a part of procurement non-compliance to PTTEP procurement regulations

Training for Procurement and Contract Employees

In 2014, PTTEP initiated a training program for procurement and contract employees to strengthen their competency in procurement and contract strategy analysis and contract management, Supplier Relationship Management (SRM), and effective supplier coordination. This will help reduce the costs of operations between PTTEP and suppliers.

The training curriculum is divided into two levels - fundamental and advance levels. A total of 36 procurement and contract employees enrolled in the fundamental training course, with 26 enrolled in the advanced training. The initiative was very successful and proved to be highly beneficial for PTTEP in organizational restructuring for 2015.

Local Procurement

PTTEP supports local procurements and services (procurement within Thailand), and we also encourage the procurement of goods and services from the operation areas in order to provide employment and income generation to support locals as well as to reduce costs and delivery time. As a result of our commitment to building long-term relationships with the communities where we operate, PTTEP has gained from each of the communities a license to operate. In addition, PTTEP also encourages the suppliers to operate with care and responsibility wherever they are and to support local procurement within their local area in order to lower the cost of goods as well as to support their local community. In 2014, the local procurement value equaled 748.9 million US dollars, or 34% of the total procurement annually spent.



Supporting Cooperation and Efficiency in the Supply Chain

PTTEP strives to improve our procurement practices by identifying opportunities for cooperation with companies in the PTT Group, including Bangchak Petroleum Plc, ThaiOil Plc, PTT Global Chemical Plc and IRPC Plc. This cooperation benefits PTT Group by increasing competitiveness, reducing investment costs and forging concerted efforts in the petroleum value chain.

As a result, PTTEP was able to reduce costs by more than 86.5 million US dollars for the following projects:

- Increasing green office supply procurement in 2014 to 63.26% of the Company overall procurement office supplies, equivalent to 100,937 US dollars
- Reducing Marine Gas Oil (MGO) consumption on the Marine Green Logistics Project and the New Marine Model Project by 9 million US dollars
- Reducing cost on procurement and contract strategies management by 76.25 million US dollars
- Reducing cost on the integrated procurement of supplies such as computer notebooks and instrument tubes among the PTT Group by 789,193 US dollars

As a result of using the supply chain management, PTTEP is able to manage their total supply chain according to Laws, user requirements and specifications from qualified suppliers at reasonable terms and conditions in respect of delivery, quality, pricing, technical specifications, SSHE requirements and risk assessment. Overall, we operate our supply chain management process in a professional, transparent and ethical manner. 31

Green Practices

Effective environmental management system along with continuous monitoring programs helps PTTEP to prevent potential impacts on the environment and community near our projects.

Integrated Environmental Management

PTTEP commits to eliminating or reducing environmental impacts through effective business management and decision-making. We have an SSHE policy and SSHE management system that are aligned with international standards. Our Target Zero program is intended to reduce our spills to zero. To ensure that environmental impacts are controlled and managed effectively, all PTTEP operating assets in Thailand and PTTEP Australasia (Montara Operation, Support Base in Darwin and the Perth office) have been achieved the certification of ISO 14001:2014 standard.

The key principle for managing impacts on the environment and communities is the effective planning and risk assessment to understand the likelihood of undesired impacts. We believe that effective engagement with our communities will help us better understand their expectations and concerns.

We also have a Green Practice Roadmap aligned with the Company vision and essential to sustainability management at

PTTEP. Through green practices, we can reduce environmental impacts from operations, as well as our ecological, carbon and water footprint, in order to enhance biodiversity and added business value. PTTEP green practices also include a target to reduce our GHG emissions by 20% by 2020. In addition, we are aware of potential climate change risks and opportunities and have conducted a Climate Change Adaptation Study Project to increase the sustainability of our business.

Safety, Security, Health and Environment Management System

PTTEP Safety, Security, Health and Environment Management System (SSHE MS) is a management system that is incorporated into the SSHE policy, strategic objectives and targets. It is a minimum requirement to be applied across the organization to ensure that the SSHE policy and SSHE risk management are effectively and consistently managed with the aim of continuously improving the SSHE performance.

PTTEP SSHE MS is designed to align with the International Association of Oil & Gas Producers (IOGP) as well as the international standards, such as ISO 14001 and OHSAS 18001.



A Process Safety

PTTEP manages process safety risks following the Process Safety Management Standard. By regular inspection and maintenance of plants, equipment, safety critical elements and systems of all domestic and international projects, the production loss originated by the integrity of the equipment can be reduced. Moreover, the major accident event which may cause impacts to the environment and nearby communities can be preventable.

PTTEP applies the Asset Reliability and Integrity Management System (ARIMs) to manage risks to be as low as reasonably practicable (ALARP). As part of this, PTTEP started implementing the MAE Prevention Tool at PTTEP AA and then in 2014 at Bongkot, Arthit and S1 projects.

Process safety performance can be measured through the Loss of Primary Containment Rate (LOPCR), Tier 1 and Tier 2. PTTEP, therefore, plans to set LOPCR as one of the 2015 corporate key performance indicators (KPIs). In 2014, PTTEP LOPCR was lower than the 2012 IOGP average. This can be reflected in the way PTTEP manages process safety performance. In 2014, there was no unplanned shutdown as a result of the equipment failure.

Key Deufeureenee Indiasteur		2015		
Key Performance Indicators	2012	2013	2014	Target
Loss of Primary Containment Rate (LOPCR)	0.23	0.34	0.48	0.24
(Number of incidents per million work hours of drilling				
and production)				

Green Practices

The improvement and development of environmental efficiency not only reduce impacts to the environment but also help reduce costs and protect stakeholder trust.

Operational Eco-Efficiency

🛱 Spills

The ultimate goal of PTTEP is to operate without any oil or chemical spills. PTTEP sets performance indicators that are in accordance with the work plans of the International Association of Oil and Gas Producers (IOGP). Furthermore, the statistics and trends of spills have also been analyzed, and the results were used for the development of risk reduction mitigations, especially for activities with a likelihood of significant spills, i.e. the spill occurring during transportation of drilling chemicals, etc.

By implementing risk reduction mitigation measures developed from spill statistics and trends analysis, we significantly reduced oil and chemical spills to 0.09 tonnes per million tonnes production, which is better than our 2014 target, while the petroleum industry's performance is 6.59 tonnes per million tonnes production. Furthermore, PTTEP was able to reduce spillage of drilling mud by 54 tonnes from 2013, which also reduced our production costs.

Hydrocarbon Spill Fingerprint Analysis

Hydrocarbon fingerprint technology enables PTTEP to analyze whether or not spilled hydrocarbon or tarball is the consequence



of our operations. This technology can identify a biomarker, which is the identification assigned to a specific hydrocarbon composition. This cutting-edge approach helps us to identify our spills and clarify the concerns to our communities. In addition, it prevents business interruptions from temporary shutdowns as a result of a strike.

In 2014, we used the tool to analyze spills found in Chumphon, Nakhon Si Thammarat and Surat Thani Provinces, where it was revealed that the spills were not caused by PTTEP activities. Also, PTTEP plans to introduce the hydrocarbon spill fingerprint analysis tool to the Oil Industry Environmental Safety Group Association (IESG) for the benefits of petroleum industry.

	Performance			2014	2015
Key Performance Indicators	2012	2013	2014	Target	Target
Oil and chemical spill rate (tonnes per million tonnes production)	0.43	2.92	0.09	5.94	2.26

A Waste

In 2014, waste from drilling activities accounted for 98% of our total waste. PTTEP managed the waste by adhering to the principles of reduction, reuse, recycling and treatment. 34% of cuttings was recycled and used as co-material in cement kiln and also used for the Company construction work. As a result of effective waste management, we have reduced amount of waste to landfill to lower than 0.5% since 2013. Moreover, PTTEP conducted a study to reduce mud and cutting waste generated during drilling in 2014.

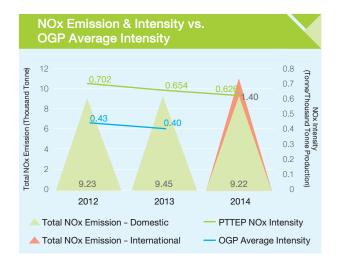
Improvement of Drilling Waste Management

In 2014, PTTEP started testing of a cutting dryer unit as part of onshore projects, which could help to reduce syntheticbased mud in the cuttings from drilling. The preliminary result of study shows that the amount of drilling waste and synthetic-based mud in drilling cuttings can be cut down by 20%. As a result, PTTEP would be able to reduce cost for waste treatment and recover synthetic-based mud for process, accounting for a cost saving of 3 million US dollars by applying this initiative.

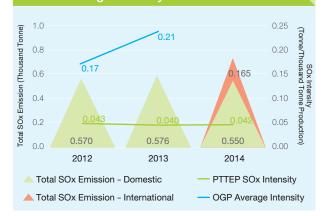
atural Pollution Reduction Initiatives

As part of petroleum exploration and production activities, machines and equipment, such as compressor engines and heaters, are the major emission sources of Nitrogen oxides (NOx), Sulfur oxides (SOx) and Volatile organic compounds (VOC). PTTEP works diligently to control and reduce these emissions. In 2014, we were able to reduce NOx and VOC intensities by 4% and 5% respectively. The VOC, NOx and SOx emissions were equal to 1.075, 0.626 and 0.042 tonnes per thousand tonnes of production respectively.

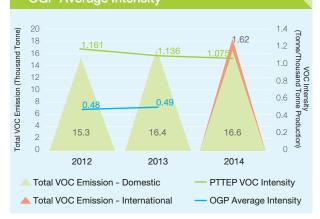
According to the last year performances, PTTEP continuously improved energy efficiency and flare reduction projects which helped us to enhance VOC, NOx and SOx emission reduction in 2014.



SOx Emission & Intensity vs. OGP Average Intensity







Green Practices

A Water Resources

Water is a key component for our operation as well as an essential resource for communities and environment. At every asset we operate in PTTEP focuses on managing water effectively and preventing contamination of water sources caused by our production activities.

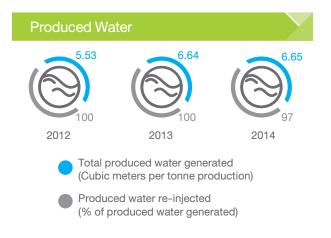
Moreover, as part of every project, we conduct water risk assessments which cover a number of risk factors such as water scarcity, increased price and tariff of fresh water, laws and regulatory related to water consumption, water conflicts with stakeholders, etc. During the assessment, PTTEP uses the local databases along with the international tools that can help us to forecast water situations in the future (e.g., IPEICA/WBCSD Global Water Tool for Oil and Gas, WRI Aqueduct and WWF Water Risk Filter). Also, in 2014, PTTEP conducted a water efficiency study in three of our operational areas where the risk of water scarcity was identified, including S1, PTTEP 1, and L53/43 and L54/43 projects in Thailand. The results show that our water consumption did not pose any conflicts with stakeholders since PTTEP used groundwater abstracted from a different level from that was used by communities. PTTEP is currently conducting a detailed research and summarizing results of study to establish water targets for our operational assets located in water stress areas by 2015.

Water Withdrawa	Managen	nent (m ³)	
	2012	2013	2014
Water Supply	17,141	108,258	165,345
Ground Water	246,059	409,290	550,563
Sea Water ¹	1,509,124	1,509,974	1,906,696
Once through Cooling Water	68,214,995	65,004,518	48,411,046
Total Fresh Water Consumption		67,032,040	51,033,650

¹ Once through Cooling Water excluded

Produced Water

Since 2010, PTTEP has controlled the discharge of produced water to the environment, and thus potential contamination of water sources by using a re-injection process to store produced water underground. 97% of produced water was re-injected to underground storage while the remaining was treated and disposed in accordance to the regulatory requirements.



Water Efficiency Study

PTTEP conducted water efficiency studies for the projects located in areas with the risk of water scarcity, as defined by IPIECA/WBCSD Global Water Tool for Oil and Gas. Such projects included S1, PTTEP 1, and L53/43 and L54/43 Projects.

The main objective of these studies is to support the reduction of water consumption, thus reducing potential impacts to the surrounding communities. The findings will be used to help increase the efficiency of water consumption in 2015 through mitigating actions such as leak detection and repairing program, regular maintenance of water-distributing equipment, and the use of air blower instead of water to clean equipment.

In addition, we also conducted a study of groundwater models to ensure that PTTEP water consumption would not cause any impacts to the environment and communities within our project areas, whilst sufficient amount of water would be available for continued business operations. We found that there was no contamination of water sources as part of PTTEP projects last year.

PTTEP has committed to becoming a low-carbon organization. In 2014, we reduced our emissions of carbon dioxide equivalents by 233,000 tonnes, which was a greater reduction than our target.

Energy and Climate Change Management

	Perform	mance	2014	2015
Key Performance Indicators	2013	2014	Target	Target
CO_2 reduction (tonnes CO_2 e)	114,000	233,000	166,000	245,000
CO ₂ reduction from Marine Green Logistics project (tonnes CO ₂ e)	56,000	56,000	56,000	62,000

PTTEP has a proactive approach for climate change management, with a target to reduce GHG emissions by 20% and increase energy efficiency by 5% by 2020, based on year 2012. In 2014, our GHG emissions were 5.1% lower than in 2012.

A Climate Change Adaptation

Increased variability and severity of the climate could potentially impact our business and the safety of our employees, contractors and communities. PTTEP initiated our climate change adaptation assessment project to plan for risk management in the short and long terms (2015, 2030 and 2050 respectively). The assessment, which will be completed in 2015, will enable us to identify climate

change risks, which we can then manage and estimate associated costs required to reduce the severity of these risks.

Climate Change Risk Management

PTTEP is committed to managing and assessing climate change risks by considering physical and regulatory impacts and risk factors. In 2014, we set the reduction of CO_2 as one of our corporate KPIs, which we successfully achieved.

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Green Practices

A Disclosure of Greenhouse Gas Information

Since 2008, PTTEP has participated in the Carbon Disclosure Project (CDP). Continual improvement in our information database system and environmental performance has led PTTEP to receive the CDP Best Performance in Hong Kong and the Southeast Asia Region. In addition, we have been included in the CDP's Asia ex-Japan Climate Disclosure Leadership Index (CDLI) for two consecutive years. Both achievements reflect our commitment to become a low-carbon organization.

A Greenhouse Gas Reduction

Since 2012, PTTEP has conducted GHG reduction projects using two key approaches: reduction of CO_2 in the oil and gas production process and reforestation to absorb CO_2 and sustain ecological balance. For more details of the reforestation project, please refer to the Community and Social Development section.

A Energy Efficiency

In 2014, PTTEP continuously improved energy efficiency in order to reach our long-term target of reducing consumption by 5% by 2020 compared to 2012. For other energy-efficiency improvement initiatives, we set a target for fuel uptake for corporate logistics to 14 kilometers per liter. The average fuel uptake for transportation was 12.5 kilometers per liter in 2014.

Greenhouse Gas Reduction and Energy-Efficiency Initiatives

Flash Gas Recovery Unit at Bangkot South

In 2014, PTTEP was able to recover flash gas from the condensate production in Bongkot South, accounting for 3.5 million cubic meters per day worth 10.3 million US dollars, which was equivalent to a GHG reduction of approximately 120,000 tonnes CO₂e.

Methane (CH4) Reduction in Production Process

PTTEP set a target to maintain methane (CH₄) emissions intensity not to exceed the intensity in 2012. In 2014, we conducted a methane emission database for the Sirikit oilfield, where we reduced fugitive emissions of GHGs by 5,000 tonnes of CO₂e, equal to a cost saving of 33,000 US dollars. Maintenance during the production process also helps to mitigate Loss of Primary Content (LOPC) risks. PTTEP is currently collecting data and developing a database of CH_4 emissions in the natural gas production process to study the feasibility of implementing technology and management approaches to reduce these emissions. We plan to apply the actions done at S1 to at the Bongkot North as well in 2015.

Vapor Recovery Unit (VRU)

As part field investigation with the U.S. Environmental Protection Agency (US EPA) to develop a CH_4 emissions database, it was found that installing Vapor Recovery Units (VRUs) could potentially reduce CH_4 emissions for the S1 project. As a result, we plan to conduct a study of installing VRUs within the area in 2015. It is estimated that VRU installation can reduce methane emissions by 1,600 tonnes of CO_9e .

Flare Reduction at Sao Tien A in S1 Project

PTTEP reduced a flare of 16,000 tonnes of CO₂e per year in Sao Tien A Petroleum Field within S1 Project. The excess gas from the petroleum production process (approximately 0.65 million cubic feet per year) was sold to Ratchaburi Power Plant, which accounted for approximately 180,000 US dollars of revenue generation for PTTEP.

Sao Tien A Petroleum Field in S1 Project has been registered as Clean Development Mechanism and is undergoing the verification process to apply for Certified Emissions Reduction (CERs) from the United Nations Framework Convention on Climate Change (UNFCCC) for the reduction of GHGs.

Green Logistics Project

The objective of the Green Logistics Project is to reduce energy consumption from logistics, which can also help to reduce GHGs. PTTEP focuses on developing and managing a marine transportation system under the Fuel Oil Control and Monitoring Program by identifying appropriate routes for transportation and using diesel-electric engines instead of conventional diesel engines, to improve the efficiency of energy consumption as part of logistics. In 2014, we were able to reduce costs by 16.8 million US dollars as a result of our efforts to reduce diesel fuel use.

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Green Logistics Project	2014	2014 Target	2015 Target
CO_2 reduction from Green Logistics Project (tonnes CO_2 e)	56,000	56,000	62,000
Reduction of diesel fuel for marine transport (cubic meter per day)	11.44	11.50	10.53

Energy Consumption Database Studies

In 2014, PTTEP conducted energy consumption studies and developed potential energy saving mitigations for Bongkot South and S1 Projects. As part of these preliminary studies, we estimated that these mitigation measures would help improve energy efficiency. In 2015, PTTEP plans to study energy consumption for overseas assets such as Australia.

Also, we implemented the measure summarized from the studies at Arthit Project by shutting down some of the sea water pumps used to generate cooling water for other machines, thus resulting in fuel savings accounted for 550,000 US dollars, equivalent to the reduction of GHG emissions by 6,000 tonnes CO₂e.

Green Practices

PTTEP not only implements procedures to protect biodiversity, we also aim to deliver a net positive impact through our biodiversity management strategy.

Biodiversity

A Biodiversity Management Practice

PTTEP has continually developed and improved our biodiversity management approach to understand the status of biodiversity in our operational areas. We art currently conducting biodiversity risk assessments for projects in Thailand and the Republic of the Union of Myanmar. We also plan to expand the scope of biodiversity risk assessments to other countries in the future. Apart from this, PTTEP has established the biodiversity management guideline and environmental impact assessment guideline in place for the developmental of every project.

All of our projects in Thailand have undergone biodiversity risk assessments since 2012 to identify the level of biodiversity risk and prepare an appropriate Biodiversity Action Plan (BAP) if necessary.

According to the result of risk assessment conducted in 2013, S1 was identified to have a medium level of biodiversity risk. However, after re-evaluating in 2014, it was found that the S1 Project does not currently pose any biodiversity threats as the project site has been converted into an agricultural area, rendering the BAP unnecessary. The assessment result also shows that the Sinphuhorm Project site poses a high level of biodiversity risks since the project is located within the river basin 1A. As a result, PTTEP plans to carry out a survey and design a risk management framework and develop a pertinent BAP in 2015.

In 2014, PTTEP compiled preliminary data to evaluate biodiversity risks for projects in Myanmar. The result indicated that some sections of the PTTEP gas pipeline cross into the Taninthayi Forest Reserve, creating a high biodiversity risk. In response to this, we conducted field surveys of biodiversity, designed a risk management framework and an appropriate BAP. Furthermore, PTTEP plans to conduct the survey to assess risks for other projects in Myanmar in 2015.

To deliver a net positive impact on biodiversity, we are planning to prepare an Ecosystem Service Inventory using data collected from our "PTTEP Reforestation" project in 2015. This will help us to understand the status of biodiversity and ecosystem services of the



selected areas and will enable PTTEP to measure the net positive impact on biodiversity and ecosystem services by comparing results to baseline data. Moreover, biodiversity and ecosystem service offset plans will be developed for the other areas with high biodiversity risks.

Biodiversity Promotion Project Training on Biodiversity and Ecosystem Services

In 2014, PTTEP developed an employee training course on SSHE to create awareness on biodiversity and ecosystem services, and will begin conducting the training for employees in 2015. We expect to increase attendee awareness of these topics by more than 80%.

Research and Development Collaboration Project on Remotely Operated Vehicle (ROV)

As Thailand still lacks technology to monitor underwater ecosystems effectively, PTTEP has collaborated with King Mongkut University of Technology North Bangkok (KMUTNB), Burapha University, Kasetsart University, and the Southeast Asian Fisheries Development Center (SEAFDEC) to develop a remotely operated vehicle (ROV) to be used during marine biodiversity and ecosystem survey for the "Rig to Reef" Project, a collaboration with government agencies to monitor an artificial reef in real time. Apart from this, we are also able to use the ROV to survey ecosystems under exploration and production rigs at offshore project locations. This will help increase community confidence that our operations will not adversely affect marine biodiversity. Development of the ROV is expected to be completed in 2016.



$2 \rightarrow PTTEP Employees$

The safety of PTTEP employees and contractors in every aspect of our operations is the key success to achieve the goal of "Target Zero".

Safety Culture

PTTEP has in place Safety, Security, Health and Environment Management System (SSHE MS) as a foundation for operational and risk control to ensure that SSHE risks are systematically managed, and appropriate control measures are identified and monitored. Moreover, PTTEP continuously reinforces SSHE Culture among all employees and contractors to untimately create an injury-free workplace. This is to reduce unexpected disruptions due to work-related incidents, minimise the remediation and compensation costs, and help increase the confidence of its stakeholders.

SSHE Performance

In 2014, PTTEP Lost Time Injury Frequency (LTIF) and Total Recordable Injury Rate (TRIR) increased when compared with 2013. A contributing factor may be an increase in the operational activities and man-hours worked. No fatalities of employees and contractors were reported in 2014.

Comparing with the International Association of Oil & Gas Producers (IOGP) safety performance indicator - 2013 data, 2014 PTTEP LTIF and TRIR were better than the IOGP average. However, PTTEP continues to improve its SSHE performance through contractor management system, SSHE culture, SSHE training programs, risk management, emergency preparedness and stop work authority. In 2014, the majority of work-related injuries were the hands, wrists and fingers. The root causes of the injuries include being struck by moving equipment or materials; being caught in, under or between machinery and equipment; and cuts, punctures and scrapes. An Injury Prevention Campaign is implemented to continuously create SSHE awareness for both employees and contractors. The themes of this campaign are derived from past incidents, e.g. hand and finger safety, land transport safety, manual handling, etc. Lessons learned from the incident are also developed and communicated throughout the Company in order to prevent recurrences.

Contractor Management

All contractors shall conduct their operations according to the PTTEP SSHE Contractor Management Standard which covers all necessary SSHE related requirements that need to be strictly followed, e.g. SSHE training, SSHE risk management, and incident management.

To assure that all contractors perform their work in compliance with the aforementioned standards, the SSHE contractor management audit for the high-risk contractors are conducted. Additionally, the audit findings closure and improvement areas are regularly monitored and followed up. The goal is to strive to reduce the contractor-related incidents.

SSHE Culture

PTTEP continuously improves SSHE culture through various campaigns. These campaigns are derived from past performance, root cause of the incident and the injury rate of employees and contractors. This will enable PTTEP to improve SSHE management system even further.

Normally, the PTTEP SSHE culture survey, as a snapshot of the organization's culture in relation to SSHE, is conducted every 3 years. In 2014, PTTEP conducted the second SSHE culture survey where the average score was 3.7 (scale 1 to 5) or "Calculative" level comparing with the average score of 3.3 in 2011. Based on the survey results, PTTEP has organized various SSHE-related activities to promote SSHE culture. These include the Step Change in SSHE Program, Life Saving Program, SSHE Handbook for employees and contractors, training and workshops for staff at all levels, and the injury prevention campaign. PTTEP has set a long-term SSHE culture improvement and implementation plans and communicates to all operating assets, projects, and sites. The intent is to achieve the ultimate goal of the "Generative" SSHE culture level.



44 \rightarrow PTTEP Employees

PTTEP believes our employees are our most valuable resource and are the key driver for the organization's success.

Human Resources

Human Resources Management Approach

PTTEP approaches to managing our human resources focus on providing tools and opportunities for our employees to develop their capabilities while building an awareness of human rights in line with business ethics and our human rights policy.

To ensure the continuity of the business, PTTEP continually improves our human resources management and recruitment to be more efficient with systematic and transparent recruiting procedures. In 2014, PTTEP was able to recruit employees for general and management positions within 90 and 120 days, respectively.

PTTEP human resources management and development strategy can be classified into three areas: Workforce Readiness, Corporate Culture and Employee Engagement. The three strategies support strong and sustainable business growth for the Company according to our stated goals.

atural AHuman Resources Development

In 2014, PTTEP developed staff's capabilities through the following projects:

PTTEP Accelerated Development Program (ADP)

PTTEP has developed Accelerated Development Program (ADP) to be an intensive program for newly graduated staff in the core technical job families: Geosciences (GG), Drilling & Well Engineering (DWE) and Engineering. The objective is to provide a focused development program to help staff become familiarized with the E&P business, gaining required technical knowledge



and skills via coaching and mentoring across work functions. To become competent staff, they are required to undergo Induction, Foundation and Work Assignments during the ADP program and also cultivate the values "EP SPIRIT" which is our business core values embedded in the PTTEP way of thinking and work.

PTTEP Competency Management System (CMS)

PTTEP has established Competency Management System (CMS). The objective is to develop staff competency as per the Job Competency Profile (JCP). The results of competency assessment will be input for supervisors to decide Individual Competency Development Plan (ICDP), which specific development activities would be defined to close gaps as per individual needs. Presently CMS has been developed to cover both technical job families (GG, DWE, Engineering and Commercial) and other supporting job families, for example, Finance & Accounting, Legal, Internal Audit, ER, HR and Supply Chain, etc. To support business growth strategy, the special competency model has been developed for Exploration, Unconventional and Deep Water to build staff's capabilities while career development roadmap and mentoring programs are established to drive competency and career development for staff in PTTEP.

Leadership Development Program

PTTEP assesses the capability of management and high potential staff and develops a Career Development Roadmap to prepare these staff for advanced positions to support PTTEP future business growth. At the Assessment Center, all management and highpotential staff will be assessed against the PTTEP Management Success Profile which includes several elements namely Competency, Personal Attributes, Organizational Knowledge and Experience. After the assessment, they shall individually receive the results to work with their supervisors on further management and leadership skill development plans. Moreover, PTTEP has also codeveloped the comprehensive leadership development program with IMD Business school, one of the world's premier business and management institutions, for the middle management development and also conducted an Executive Coaching Program for the top management. All of these are to ensure that our management and high-potential staff have the appropriate knowledge and skills to support the PTTEP business expansion.

General Training

PTTEP courses offer training and knowledge-building for employees at all levels in the organization. The training for capability and competency development is in line with our organizational targets as follows:

- To comply with PTTEP standard on Safety, Security, Health and Environment (SSHE), which is aligned with law
- To improve current job performance
- To prepare for future roles and assignments
- To develop basic skills and improve self-sufficiency
- To develop knowledge and skills for proficiency and information technology

Succession Planning

PTTEP has developed a Succession Plan in order to replace vacant Management positions resulted from retirement and reorganization to support business expansion domestically and internationally. The Career Review Board (CRB) is responsible for selecting the right candidates from the high-potential staff pool, in consideration of their knowledge, experience, competencies, Currently Estimated Potential (CEP), as well as related experience to the vacant positions. Long-term and short-term Individual Development Plan (IDP) of each successful successor will be identified in order to accelerate the development to ensure that the successor is ready to take the targeted position at the specified timeframe.

In 2014, PTTEP completed successor identification as well as IDP development for all top management positions (Executive Vice President and Senior Vice President). This will also ensure that PTTEP has competent management at younger ages.

Human Resource Development 2014



Budget
8.4 million US dollars

Average training
75.4 hours per employee

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$6 \rightarrow \mathsf{PTTEP} \mathsf{Employees}$

Myanmar Staff Value Creation Program

Myanmar is an important production base for PTTEP due to its high potential of petroleum discovery. Thus, PTTEP carefully considers the ability and readiness of our employees in this region.

In 2014, we developed the Myanmar Staff Value Creation Program to recruit and develop the Myanmar with high potential to work with PTTEP in Myanmar, to comply with Myanmar's Foreign Investment Law.

In addition, we put in place individual development plans and monitoring and assess the performance of Myanmar staff to build local workforce capacity. These potential personnel are trained in Thailand to boost their knowledge and skills. PTTEP is aware of the importance of education; therefore, as part of the program, we provide scholarships to technical students and plans to give scholarships to students in undergraduate geology, engineering, accounting and logistics programs.

A Corporate Culture

PTTEP not only develops the technical knowledge and capability of employees but also supports them to integrate our corporate culture, "EP SPIRIT," into their work life. To help management lead by example, we have provided EP SPIRIT training to 244 leaders and management staff, with a satisfaction score of 95%. The EP SPIRIT training for 1,974 general employees was also conducted and the satisfaction score was 92%.

A Performance Appraisal

Apart from performance appraisal in the work-related criteria, PTTEP also includes the corporate core values EP SPIRIT as criteria for performance assessment which accounts for 32%. All employees are acknowledged of the target settings and expected behaviors. They undergo performance appraisal twice a year. The compensation for management depends on the success of corporate performance; whereas, the compensation for employees depends on the success of corporate and individual performance.

Employee Engagement

PTTEP conducted an employee engagement survey to analyze factors impacting employee retention. The engagement score in 2014 was 46%¹ compared to 57% in Oil & Gas industry in Asia Pacific. As a result, PTTEP is preparing the employee engagement improvement plan for 2015, which aims to improve talent management, communication and senior leadership.

Moreover, PTTEP also works to increase employee ability to manage and develop their career path and we apply a job rotation system. In 2014, PTTEP initiated an internal job posting program to allow employees who desired to change their career paths to apply for available positions within the Company. We advertised a total of 20 positions through the program; two of these positions were filled by internal candidates.

A Employee Retention

PTTEP sets up, regularly reviews and revises a fair wage system for its staff according to corporate short and long-term performance in order to attract and retain competent staff. The salary rate and the method of payment paid by the petroleum industry in the country are considered. The difference of each position, the required skills and expertise, the level of difficulty of work, the assigned responsibilities and the staff's capacity for their responsibilities will be wholly considered as well.

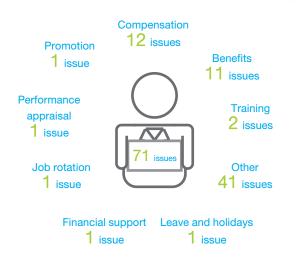
PTTEP manages and/or enhances the fair welfare for the staff and the Company itself. We consider the payment capacity in the present and long term. We emphasize the sustainable welfare for the staff and families' living. Such welfare will be for most staff who cannot provide with their financial capacity and there has not yet been a sufficient governmental support such as housing interest subsidy and health care benefit for the staff and families. Lastly this is common provision granted by the petroleum entrepreneurs in the country. PTTEP regularly reviews the welfare for its appropriateness and pertinence of changing social, economic and other obligatory conditions in business running. In addition, PTTEP also takes care of the staff to relieve the anxiety of the staff through the Sabaijaidee program that provides consulting services for all staff, spouses and children on the matters of family, private life, work, love, law, etc. by psychologists from a consulting company.

PTTEP provides the welfare and benefits that are consistent with the corporate performance in both short and long terms. In the short term, PTTEP provides the special payment which is variable related to the corporate performance. In the long term, PTTEP manages the provident fund for staff in order to enrich their livings and become work security for them when they resign or retire. The provident fund consists of staff and PTTEP regular contributions. PTTEP makes monthly contribution at a rate of 15% of the staff's basic salary while the staff contributes at the range between 2-15% on a monthly basis. Receiving this fund is subject to the PTTEP regulations. Moreover, PTTEP establishes the Employee Joint Investment Program (EJIP) intended to encourage staff to participate in EJIP on a voluntary basis and this program shall build motivation of staff to work efficiently and effectively, create alignment between the employees, management and shareholders, and establish long-term loyalty and a sense of ownership to PTTEP. The purchasing of ordinary shares will be carried out through the trading system of the Stock Exchange of Thailand. This program commences from 1 February 2013 until 31 January 2018 totalling a 5-year period. The eligible staff will ask PTTEP to deduct from their basic salary at the rate of 2 to 10% of basic salary whereas PTTEP will contribute the same amount paid by staff each month. Receiving shares value is subject to the corporate performance in the long term. In 2014, 82.5% of eligible employees joined the EJIP.

A Labor Rights

PTTEP operates in accordance with the labor laws of every country in which we do business, including prohibitions against child or forced labor. Our operations comply with our corporate Human Rights Policy, business ethics, laws and international practices, regardless of the host country's existing human rights requirements. We have also defined fair employment and working conditions for safety and healthy purposes.

Labor Rights



Moreover, PTTEP also supports the ability of our employees to exercise their labor rights through our Welfare Committee, which consists of representatives from staff and management and accounts for 1.04% of our total workforce. The committee meets on a monthly basis to discuss topics related to benefits and employee welfare. In 2014, issues of discussion included the following.

In addition to the expectations we set for our employees, we also clearly define the behaviors of security personnel, to ensure they operate in accordance with PTTEP ethical and human rights principles.

Corporate Citizenship

As part of PTTEP

"Social License to Operate", we engage with the stakeholdes to help identify and minimize adverse impacts on the environment and safety of communities near our operations.

Managing Impacts on Communities

PTTEP is committed to developing petroleum exploration and production projects that strictly observe local laws and regulations. For each project, we organize at least two public participation meetings to gather stakeholder opinions and concerns, perform Environmental Impact Assessments, and implement a PTTEP operations framework to encourage harmony in project development.

In 2015, we also plan to develop Resettlement Guidelines that will establish clear guidance on engagement with communities facing resettlement. These guidelines will include corrective and preventative measures to guard against impacts and protect the rights of stakeholders.

A Environmental Impact Assessments

In 2014, PTTEP carried out Environmental Impact Assessment Reports for 10 projects, including one Safety and Environmental Management Plan for Seismic Inspections in which 21 stakeholder meetings were held during the process.

To develop an appropriately protective and corrective framework that effectively reduces environmental impacts, we integrate the opinions and concerns of our stakeholders into the analysis. This is in addition to our regular monitoring and inspection of environmental equality, during which we submit reports to relevant government entities throughout the entire length of operations.



A Issue and Stakeholder Management

We recognize the importance of engaging with our stakeholders to identify issues pertinent to them and our business. Accordingly, PTTEP utilizes the Issue and Stakeholder Management System (ISMS) to facilitate analysis, planning, measurement and monitoring of potential social impacts. The objectives are to ensure that PTTEP operations comply with fair operating practices, and foster mutual understanding and relationships with relevant stakeholders. PTTEP aims to apply the ISMS in every project area to avoid work disruptions caused by conflicts with communities.

Contractor Forum

In 2014, we organized a contractor forum to engage with contracted parties working with the PTTEP Petroleum Development Support Base (PSB) in Songkhla Province. As part of the forum, we worked with a total of 133 parties to cultivate common understanding regarding engagement with communities and society to prevent human rights violations and support practices that comply with our standards.

PTTEP evaluates our risks and social impacts through the ISMS System on an annual basis. In 2014, we evaluated eight projects: PTTEP 1 Project, PTTEP Petroleum Development Support Base (PSB) in Ranong, B6/27 Project, Isan Project and PTTEP PSB in Songkhla, as well as projects in Australia, the Republic of the Union of Myanmar and Indonesia. Risk frameworks were implemented in these project areas to prevent societal impacts. Moving forward, PTTEP plans to conduct risk and social impact assessments for S1 Project, Sinphuhorm Project, Andaman Project and projects in Oman and Canada.

As part of community relations, we have implemented social grievance mechanisms in our project areas. This past year, there was one case of grievance reported relating to the encroachment of a land boundary between a public road and the entrance to a farming community, where a base drilling station is being constructed as part of Projects L53/43 and 54/43. The issue has been fully resolved by the responsible subcontracting company.



Corporate Citizenship



Community and Social Developmen

PTTEP is committed to elevating the quality of life in our communities and society through our Social Development Strategy, which focuses on socio-economic development through investment in four themes: basic needs, education, environment, and culture and sports. PTTEP works closely with communities to develop programs that fit their needs, in line with our strategy.





Basic Needs

By helping our communities meet their basic needs, we can increase the quality of life and enable them to build a sustainable foundation for the future.

A Crab Hatchery Learning Center

PTTEP collaborated with the Local Fishermen Group, Songkhla Province, and the National Institute of Coastal Aquaculture (NICA) to develop a Zoea (juvenile crab) hatchery project that will return crabs to their natural environment. The project is a model Crab Hatchery Learning Center that provides the crabs with a better chance of survival than they would have in the wild. Apart from this, the project enhances community livelihoods and supports skills for self-sufficiency.

PTTEP understands the importance of developing a systematic knowledge base for crab aquaculture that is also up to standard; with this in mind, we lent our support to the construction of an aquaculture facility that was eventually transformed into a learning center to raise awareness among youth. The facility has since expanded into an eco-tourism venue, which helps to boost the local creative economy and increase sales revenue from processed sea food, souvenirs and crab shell art.

A Free Health Clinic

In Indonesia, PTTEP partners with Dompet Dhuafa, a respectable non-profit organization in establishing a free health clinic for the underprivileged in Cilincing, North Jakarta - a community home to 16,500 underprivileged population (with income less than 2 US dollars per day). Our five-year plan is to improve community's accessibility to health services and awareness of their own health status. In 2014, mobile outreach units provided healthcare and dental services to 2,299 people which all of our Indonesia based managements and employees have volunteered in the services. The project will expand its support to address communities' concerned health pattern including tuberculosis in the 2nd year and eventually HIV-AIDS unit by the 5th year.



Education

PTTEP prioritizes the education of children and young adults by providing access to opportunities to help them fulfill their potential in the future. To achieve this goal, we organize community education projects focusing on knowledge development and scholarship grants.

A PTTEP Smart Center

PTTEP, in collaboration with the Municipality of Songkhla Province, Thailand Knowledge Park, the Office of Knowledge Management and Development (Public Organization) and Songkhla Heritage Society, established the "PTTEP Smart Center" in Songkhla Province, which offers a new method of learning that integrates new and local community knowledge under one curriculum. The expected date of project completion is in 2016.

Furthermore, our Company commitment to educational and human capital development extends to providing opportunities for youth and other disadvantaged groups through scholarship programs in Thailand and overseas. Some examples include the "PTTEP Scholarships Project" which grants scholarships to local students from towns and villages surrounding PTTEP operational sites, from elementary to university levels; the "High School Attraction Campaign (HSAC)" which supports science education at the High School level for students interested in an occupation in petroleum exploration; and PTTEP collaboration with the Office of The Civil Service Commission (OSCS) to provide Bachelor's degree scholarships at overseas universities to train individuals in Geological Science and Engineering.



Corporate Citizenship



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Environment

PTTEP promotes community interest in natural resources and the environment by developing conservation-focused projects to foster environmental sustainability for future generations.

Reforestation Restoration Project for Eco-learning at Sri Nakhon Khuean Khan Park in line with HRH Princess Sirindhorn's Initiative

The "Bang Kachao" area is a 10,000-rai green area in Samut Pra Kan Province, located at the bend of the Chao Phraya River. It is considered the "Green Lungs" of Bangkok for its fresh, clean air that comes with the monsoon winds from the Gulf of Thailand and whisks away the pollution of the Bangkok city for up to nine months a year. TIME Magazine recognized Bang Krachao as "The Best Urban Oasis" of 2009.

PTTEP, in collaboration with Thailand's Department of Forestry and Kasetsart University, launched a forest recovery campaign at Sri Nakhon Khuean Khan Park — established under the royal patronage of Her Royal Highness Princess Maha Chakri Sirindhorn — to restore the Bang Kachao natural green area surrounding the city. The restoration campaign consists of reforestation projects and nature trail development of 40 rai, with the goal of creating an eco-learning network and an area for relaxation, and furthering conservation efforts that will maintain these "green lungs" for the people of Bangkok and surrounding provinces.

PTTEP, the Forestry Department and Kasetsart University will offer the 40 rai and the eco-learning site of Bang Kachao to Her Royal Highness Princess Maha Chakri Sirindhorn in honor of her 60th birthday in 2015, which also coincides with the PTTEP 30th anniversary.

PTTEP Reforestation

The PTTEP 200,000-rai reforestation project to reduce the climate change began in 2013 and will continue through 2020. During the first three years of the project, we were responsible for the reforestation and care of the trees before we handed the project over to the Department of National Parks, Wildlife and Plant Conservation and the Department of Marine and Coastal Resources for their care and supervision of the following four-year maintenance. Aside from aiding in carbon dioxide (CO_2) absorption, the project creates the economic value for local communities through employment creation and revenue generation.

In 2014, PTTEP conducted reforestation in areas in 15 provinces, totaling to 50,000 rai, and maintained plots that had been reforested in 2013. In 2015, PTTEP will plant an additional 5,000 rai.



Greenhouse gas reduction target during the project period 620,000 tonnes CO_ equivalent



Tree Survival Rate more than 89%



Economic value received by local community 7.6 million US dollars

Current Forest Area

288 Households benefiting from employment generation

A PTTEP Thai Heritage World Heritage (Nature)

PTTEP worked with the Department of National Parks, Wildlife and Plant Conservation to support knowledge dissemination on the value of "Thai Heritage, World Heritage" sites by developing ecolearning networks and an eco-tourism center, setting up exhibitions, and creating nature trails. The objectives of this effort are to create useful resources for increasing knowledge of environmental conservation knowledge, promote the creation of a community conservation network, and support Thai research, namely the "Tiger Conservation Research" and "Hornbill Conservation Research" projects in Huai Kha Khaeng Wildlife Sanctuary and Khao Yai National Park. Tigers and hornbills are vital indicators in revealing the abundance and biodiversity of the forest floor, and this research will help increase their population and reduce the likelihood of extinction in the natural heritage areas. The findings will further contribute to improving a patrolling system to protect the Thai Heritage, World Heritage areas.

Tiger Conservation Research Project

In 2014, researchers working on the Tiger Conservation Research project successfully attached GPS satellite collars to 6 tigers - a significant achievement for tiger research in Asia.



Hornbill Conservation Research Project

Since 2007, we have helped support the birth of 940 hornbills at Khao Yai National Park.



Corporate Citizenship

A PTTEP TEENERGY CAMP

The PTTEP TEENERGY CAMP fosters youth engagement in natural resource conservation and sustainable actions that benefit their communities and wider society. The camp is a component of PTTEP ongoing social development activities, which was organized in 2014 under the title "Thai Heritage World Heritage (Nature): PTTEP TEENERGY CAMP Khao Yai Natural Heritage Conservation". Between 27 and 29 October 2014, PTTEP brought together 60 high school students from all over the country to promote knowledge and experiential learning around natural resource conservation at Khao Yai National Park in Nakhon Ratchasima Province.

Mr. Teerawat Sriburom

Student at Mukdaharn School, Mukdaharn Province

"The inspiration I have received from participating in this activity is to see natural conservation at work — to see the mental and physical sacrifice, the difficulties and the obstacles. From this experience as a TEENERGY, I will be a driving force in conservation and strive to create environmentally conscious minds and good values, for the sustainability and benefits of all. I will share the knowledge that I have gained from this experience with my family, my mother, father, grandparents and all of my friends at school in the future if opportunities arise."









A Tiger Education Program

Since 2013, PTTEP has supported environmental and wildlife education in Huai Kha Khaeng through the integration of our tiger and conservation research into the curriculums of 13 leading schools in the surrounding areas of Huai Kha Khaeng Wildlife Sanctuary. This will enable teachers and students in the area to understand the value and significance of wildlife and nature conservation, enabling them to vitalize the natural heritage conservation network.



Culture and Sports

PTTEP believes in the importance of personnel and cultural well-being and promotes well-rounded lifestyles for communities and societies.

PTTEP Thai Heritage World Heritage (Culturel)

PTTEP, with the Department of Fine Arts, worked to improve the management of cultural heritage sites at the Historical City of Ayutthaya. Through the dissemination of academic information, prepared learning materials, improved employee skillsets and enhanced communication about activities related to historical and cultural learning, we helped create awareness around the conservation of cultural heritage sites. According to the Memorandum of Understanding for World Heritage Conservation, Phase 2 (2014-2017) signed by PTTEP and the Department of Fine Arts and in continuation of Phase 1, the collaboration supports education, analysis and preparation of learning materials for historical sites and exhibition buildings, serving as an educational resource for arts and cultural heritage.

7th PTTEP Thai Heritage World Heritage Camp for Disabled Youth

Ms. Nathcha Tavanukulkit, Volunteering Employee

"It is a great opportunity to be involved in helping the community. Regardless of whether it is a small camp and is just one corner of society, at least it helps us realize that good things like this exist."

Keng

"I love walking in the forest and studying nature. All of us can help — it doesn't matter if we can see or not. We are small specks of light that can reflect back to society and say that this forest still needs to be taken care of. Please do not destroy it."





Employee volunteering in social and community activities is a KPI under PTTEP SSHE-SD Plan, which provides opportunities for employees to engage creatively in a wide range of activities for at least three hours per person, per year. For employees, this helps instill a sense of corporate citizenship; for local communities, these activities create opportunities to voice suggestions and opinions regarding our programs, so we can integrate their input into future project development. For example, the "PTTEP GREEN UP" Activity, organized for two consecutive years, encourages employees and their families to get involved in reforestation programs. Through this activity, participants cultivated 150 tree seedlings, moved 7,230 saplings, and planted 3,765 trees and mangroves in 2014. In addition, the "7th PTTEP Thai Heritage World Heritage Camp for Disabled Youth" brought 40 physically disabled students from the School for the Blind and the Blind with Multi-Handicaps, in Lopburi Province, to learn about Thai natural heritage at Huai Kha Khaeng Wildlife Sanctuary in Uthai Thani Province. Forty PTTEP and public volunteers gathered to act as "buddies" for these students. Prior to this, we organized a Company activity for volunteering employees to produce learning materials for the blind, such as braille books and hornbill models.

PTTEP GREEN UP



Mr. Nawee Anant-raksakul

Executive Vice President, Geosciences and Exploration Group "The intangible benefit that PTTEP will receive from employees is the heart of natural conservation. When I saw my colleagues laugh, they were happy and very proud to be participating in Company CSR activities. I thought it was the happiness of the Company and executives."

SD Performance Summary

Economic	Unit	2011	2012	2013	2014
Direct Economic Value Generated					
Total revenue	Million USD	5,685	7,021	7,445	8,017
Economic Value Distributed					
Salary, wages and employees' benefits	Million USD	85.72	103.91	137.27	171.12
Operating expenses	Million USD	625	706	827	857
Payments to Providers of Capital					
Payment to governments ⁽²⁾	Million USD	1,615	1,886	2,151	2,183
Dividend payments	Million USD	560	588	783	736
Interest payments	Million USD	123	178	174	216

Remarks:

1) Scope of reporting Economics performance is in alignment with PTTEP Annual Report 2014.

2) Payment to government covers petroleum royalties, remuneration for the petroleum and tax payments.

Environmental	Unit	2011	2012(1)	2013(1)	2014(12)		
			2012	2010	Domestic	International	
Hydrocarbon Production							
Production from operating asset	BOE	84,441,889	96,282,938	105,924,646	105,205,817	18,886,056	
	Tonnes	11,531,232	13,151,812	14,452,553	14,402,539	2,552,809	
Energy Consumption							
Total direct energy consumption	GJ	18,886,907	20,377,244	20,825,094	20,520,695	3,320,172	
Total indirect energy consumption by	GJ	29,440	29,231	34,167	65,289	8,180	
primary energy source							
(electricity purchased)							
Total energy intensity	GJ/tonne	1.64	1.55	1.44	1.43	1.30	
	production						
Greenhouse Gas Emissions ⁽²⁾ (GHGs)							
Direct total GHGs ^(3, 4)	Tonnes CO ₂	2,751,323	4,431,144	4,459,039	4,399,529	722,545	
	equivalent						
Indirect total GHGs	Tonnes CO ₂	1,675	1,649	1,808	3,520	635	
	equivalent						
Other relevant indirect GHG emission ⁽⁵⁾	Tonnes CO ₂	10,978	12,817	12,470	33,622	1,742	
	equivalent						
GHG intensity	Tonnes CO ₂	239	337	310 ⁽¹¹⁾	308	284	
	equivalent/thousand						
	tonne production						
Flare							
Total flaring	MMscf	20,812	44,050	47,946	48,158	5,870	
Hydrocarbon flaring	Tonnes	482,983	1,015,134	1,101,526	1,104,472	160,698	
Hydrocarbon flaring intensity	Tonnes/thousand	5.70	10.50	10.40	10.50	8.51	
	BOE						

Environmental	Unit	2011	2012(1)	2013(1)	201	4 ⁽¹²⁾
Environmental			2012	2013	Domestic	Internationa
Emissions						
Volatile organic compounds (VOCs)	Tonnes VOC	7,160	15,265	16,412	16,614	1,61
VOC intensity	Tonnes VOC/	0.621	1.161	1.136	1.154	0.633
	thousand tonne					
	production					
Nitrogen oxides (NOx)	Tonnes NO ₂	6,940	9,228	9,454	9,216	1,399
NOx intensity	Tonnes NO /	0.602	0.702	0.654	0.640	0.54
	thousand tonne					
	production					
Sulfur oxides (SOx)	Tonnes SO2	457	570	576	550	16
SOx intensity	Tonnes SO ₂ /	0.040	0.043	0.040	0.038	0.06
	thousand tonne					
	production					
Ozone-depleting Substances ⁽⁶⁾ (ODS)	Kg of CFC11	-	-	8.3	13.8	
	equivalent					
Spills						
Spills ⁽⁷⁾	Cases	14	7	26	12	1
	Tonnes	6.00	5.87	44.22	0.28	1.1
Hydrocarbons	Cases	13	7	23	11	1.
	Tonnes	0.75	5.87	44.18	0.28	1.1
Non-hydrocarbons	Cases	1	0	3	1	:
	Tonnes	5.25	0	0.10	0.00	0.0
Water Withdrawn						
Water withdrawal	Cubic meters	1,133,491	1,772,324	2,027,523	2,262,918	359,68
(excluding once through cooling water)						
Once through cooling water	Cubic meters	63,136,840	68,214,995	65,004,518	48,411,046	
Water Discharge						
Water discharge by destination						
Produced water injection	Cubic meters	5,330,736	5,559,511	6,640,290	6,438,057	
Produced water disposed by evaporation	Cubic meters	NA	0	0	1,854	126,74
Produced water treated & discharged ⁽⁸⁾	Cubic meters	NA	0	0	0	89,56
Produced water disposed by waste	Cubic meters	NA	0	0	1,958	
processor						
Waste Generation ^(9, 10)						
Hazardous waste	Tonnes	NA	NA	NA	36,436	3
Non-hazardous waste	Tonnes	NA	NA	NA	202,877	29
Waste Disposal						
Hazardous waste	Tonnes	18,235	33,874	44,559	36,706	3.
Drilling mud and cutting waste	Tonnes	16,999	32,430	41,894	34,702	N
Other hazardous waste	Tonnes	1,236	1,444	2,665	2,004	3:

SD Performance Summary

Environmental	Unit	2011	2012(1)	2013(1)	201	4 ⁽¹²⁾
Environmental			2012	2013	Domestic	International
Non-hazardous waste	Tonnes	588	873	1,238	202,916	290
Drilling mud and cutting waste	Tonnes	NA	NA	NA	200,757	NA
Other non-hazardous waste	Tonnes	NA	873	1,238	2,159	290
Exported hazardous waste under the Basel	Tonnes	515	429	460	205	0
Convention						
Environmental Management						
Investing in managing environmental impacts	Million USD	4.44	5.96	9.34	6.09	NA
Treatment and disposal expenses	Million USD	2.44	3.77	4.08	3.99	NA
Protection, management and investments	Million USD	2.00	2.19	5.26	2.09	NA
Percentage of prevention cost in total	%	45	37	56	34	NA
environment expense						
Legal Compliance						
Significant fines, penalties and settlements	Case	0	0	0	0	0
	Million USD	0	0	0	0	0

Remarks:

1) 2012 & 2013 Environmental performance data included Thailand assets only.

2) Total direct GHG emissions (Scope 1) based on equity basis are not included in this report. Noted that GHG emissions (Scope 1) in 2012 as base year are recalculated to be 4,471,086 tonnes CO₂ equivalent. ^(G4-22)

3) GHG emissions from well service venting is not included.

4) Methane (CH4) emissions are equivalent to 11,092 and 1,397 tonnes CH4 for Thailand and International assets respectively.

- 5) Other relevant indirect GHG emissions (Scope 3) are comprised of transportation and air travel.
- 6) Ozone-depleting substances (ODS) includes Hydrochlorofluorocarbon (HCFC) only.
- 7) No significant spills from the third parties under contractual obligations
- 8) Hydrocarbon discharged within produced water is equal to 0 and 1.42 tonnes for Thailand and International assets respectively.
- 9) Drilling mud & cutting waste is included in Thailand assets only.
- 10) The difference between waste generation and disposal amount is accounted for on-site storage.
- 11) Re-calculation to match 2014's calculation method
- 12) NA (not available)
- 13) 100% data coverage based on PTTEP operational control.

Labor Practices	Unit	20	11	20	12	201	3 ⁽¹⁾	20	14
Labor ractices		Male	Female	Male	Female	Male	Female	Male	Female
Workforce									
Total Workforce ⁽⁴⁾	Persons	3,6	639	4,0	80	4,3	16	4,5	547
		2,479	1,160	2,732	1,348	2,851	1,465	3,058	1,489
Staff by region									
Thailand (PTTEP and PTTEP Services)	Persons	2,166	1,076	2,340	1,233	2,155	1,252	2,247	1,275
Australia	Persons	186	43	217	59	204	57	176	39
Oman	Persons	59	6	55	6	68	6	73	14
Myanmar	Persons	29	23	66	34	246	92	377	98
Others	Persons	39	12	54	16	178	58	185	63
Staff by age									
<30 years	Persons	90)9	1,1	48	869	563	924	501
30 - 50 years	Persons	2,0	04	2,1	02	1,603	824	1,671	893
>50 years	Persons	32	29	32	23	379	78	463	95

Labor Practices	Unit	20	y	20		· · · · · · · · · · · · · · · · · · ·	13 ⁽¹⁾	20	
/	/	Male	Female	Male	Female	Male	Female	Male	Femal
Staff by employment type									
Permanent ⁽²⁾	Persons	NA	NA	NA	NA	2,251	1,162	2,431	1,21
Temporary ⁽³⁾	Persons	NA	NA	NA	NA	600	303	627	27
Staff by employment category									
Executives	Persons	NA	NA	NA	NA	29	7	34	
Middle Management	Persons	NA	NA	NA	NA	66	23	77	2
Senior	Persons	NA	NA	NA	NA	672	213	618	22
Employee	Persons	NA	NA	NA	NA	2,084	1,221	2,329	1,23
Training and Development									
Average all employees	Hours/person/year	40.9	48.6	52.0	43.3	57.1	65.4	48.6	4
Composition of Governance Bodies									1
Board of directors	Persons	14	1	14	1	14	1	14	
Executives	Persons	45	8	57	9	29	7	34	
Middle management	Persons	282	70	312	84	66	23	77	2
Senior	Persons	478	234	536	274	672	213	618	22
Employee	Persons	1,361	764	1,435	866	2,084	1,221	2,329	1,23
New Employee Hire by Age Group						·	,		
<30 years	Persons	194	141	152	168	291	226	268	13
30 - 50 years	Persons	181	54	131	59	230	104	201	6
>50 years	Persons	26	1	19	2	42	3	54	
Total	Persons	401	196	302	229	563	333	523	20
New hire rate	% of total	12.4	6.0	8.5	6.4	13.0	7.7	11.5	4.
	employees	12.1	0.0	0.0	0.1	10.0	1.1	11.0	.
Turnover by Age Group	employees		 				1		
< 30 years	Persons	28	47	33	51	42	42	66	7
			47 18			42 57	42 33		
30 - 50 years	Persons	48		74	19			81	5
> 50 years	Persons	20	3	27	2	20	2	42	10
Total	Persons	96	68	134	72	119	77	189	13
Turnover rate	% of total	3.0	2.1	3.8	1.8	2.8	1.8	4.2	3.
	employees	i i							
Turnover by Type									
Voluntary resignation	Persons	86	66	127	72	108	76	173	12
Dismissal	Persons	0	0	0	0	0	0	0	
Retirement	Persons	10	2	5	0	8	1	11	
Death - not related to work	Persons	1	0	2	0	3	0	5	
Parental Leave									
Employee taken parental leave	Persons	23	32	15	29	0	27	17	1
Employee returned to work after parental leave	%	100	100	100	100	100	100	100	10
Integrity									
Training hours concerning human rights,	Hours	208	260	784	1,170	420	833	1,694	1,56
anti-bribery, and corruption									

SD Performance Summary

Labor Practices	Unit	2011	2012	2013(1)	2014
		Male Female	Male Female	Male Female	Male Female
Equal Remuneration					
Ratio basic salary women/men	Ratio	0.74	0.76	0.87	0.89
Gender Diversity					
Women in workforce	Persons	1,076	1,233	1,465	1,489
	%	33	35	34	33
Women in professional positions	Persons	234	274	1,222	1,234
	%	33	34	37	35
Women in management positions	Persons	70	84	30	33
	%	20	21	24	23
Women in senior leadership positions	Persons	9	10	213	222
	%	13	12	24	26

Remarks:

1) PTTEP started reporting human capital data at the global level in 2013 (100% data coverage).

2) Permanent means a full time employment contract with an indeterminate period. PTTEP does not have part-time employees.

3) Temporary means an employment contract with a limited duration and terminated by a specific event, including the end of a project or work phase or return of replaced personnel.

4) Total staff exclude outsource staff i.e. maids, gardeners and drivers.

5) NA (not available)

Corporate Social Responsibility	Unit	2011	2012	2013	2014
Total Contribution					
Total contribution	Million USD	-	6.49	19.76	44.50
Volunteer	Hours	-	-	9,083	10,308

Remarks:

1) Total contribution has included corporate philanthropic spending and philanthropic spending at the project level since 2013.

Health and Safety	Unit	2011	2012	2013	2014 ⁽³⁾
Fatalities					
Total number	Cases	0	0	1	0
Workforce ⁽¹⁾	Cases	0	0	0	0
Contractors ⁽²⁾	Cases	0	0	1	0
Fatal accident rate (FAR) - Workforce	Cases	0.00	0.00	0.00	0.00
	per hundred				
	million hours			1 1 1	
	worked				
Fatal accident rate (FAR) - Contractors	Cases	0.00	0.00	2.55	0.00
	per hundred				
	million hours			1	
	worked				

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U	

Health and Safety	Unit	2011	2012	2013	2014 ⁽³⁾
Occupational Health and Safety					
Total recordable incident rate (TRIR) - Workforce	Cases	12	9	5	6
	Cases	2.65	1.18	0.59	0.63
	per million				
	hours worked				
Total recordable incident rate (TRIR) - Contractors	Cases	42	51	39	46
	Cases	1.98	2.09	1.26	1.50
	per million				
	hours worked				
Lost time injury frequency (LTIF) - Workforce	Cases	3	2	1	0
	Cases	0.66	0.26	0.12	0.00
	per million				
	hours worked				
Lost time injury frequency (LTIF) - Contractors	Cases	7	4	5	9
	Cases	0.33	0.16	0.16	0.29
	per million				
	hours worked				
Near Miss – Workforce	Cases	43	55	67	98
Near Miss – Contractors	Cases	84	87	98	53
llnesses					
Total recordable occupational illness frequency	Cases	0.23	0.06	0.15	0.22
(TROIF) - Employees	per million				
	hours worked				
Absentee rate – Workforce	Cases	NA	NA	NA	171.69
	per million				
	hours worked				
Absentee rate – Contractors	Cases	NA	NA	NA	NA
	per million				
	hours worked				
Restricted work case (RWC) – Workforce	Cases	14	24	20	7
Restricted work case (RWC) – Contractors	Cases	NA	NA	2	0
Medical treatment case – Workforce	Cases	30	30	13	1
Medical treatment case – Contractors	Cases	NA	NA	2	4
Process Safety					
Number of Tier 1 process safety events	Cases	NA	1	4	3
Number of Tier 2 process safety events	Cases	NA	3	2	7

Remarks:

1) Workforce means employees and supervised workers of PTTEP (PTTEP Services Limited).

2) A contractor means an individual or a company carrying out work under the supervision, instructions and SSHE Management System of PTTEP or subsidiaries within the reporting boundary.

3) 100% data coverage.

Awards & Recognition

PTTEP is proud to have been recognized globally by a number of leading for our business activities.

Corporate Governance

- Best CEO and Best CFO
- Top Corporate Governance Report Awards
- Asian Corporate Director 2014
- The 10th Corporate Governance Asia Recognition Awards Þ
- Asia's Best CEO (Investor Relations) Award
- Asia's Best CFO (Investor Relations) Award
- The 2nd Asian Company Secretary of the Year Award

Social Responsibility

- CSR Recognition Award 2014 ►
- Best Strategic Corporate CSR \blacktriangleright
- Best Community Program Award
- Best Environmental Responsibility
- EIA Monitoring Awards 2014 \blacktriangleright
- CSR Excellence Award
- TOP CSR Free Medical Services

Investor Relations

- Best IR in Energy Sector 2014
- Best IR by a CFO 2014
- Investor Relations Awards
- Best Senior Management IR Support in Thailand
- Best Investor Relations Company Award

Investment Analysts Association

- Stock Exchange of Thailand and Money and Banking Magazine
- Corporate Governance Asia Magazine

Stock Exchange of Thailand Alpha Southeast Asia Magazine Pinnacle Group International Singapore Corporate Governance Asia Magazine Ministry of Natural Resources and Environment Ministry of Social Development and Human Security Dompet Dhuafa Foundation

IR Magazine

IR Magazine

- Stock Exchange of Thailand and Money and Banking Magazine
- Alpha Southeast Asia Magazine
- Corporate Governance Asia Magazine

Best Practices

- The Asset Platinum Corporate Award
- Outstanding Sustainability Report Award 2014
- ▶ Thailand's Top Corporate Brand Value 2014 Award
- Best Public Company 2014 Resources Industry Award
- 2013 Thailand Quality Class Award
- Listed Company of the Dow Jones Sustainability Indices (DJSI) in Sustainability World Index of the Oil and Gas Sector 2014
- PTTEP AA has achieved certification to the International Organization for Standardization (ISO) 14001 Environmental Management System
- Best Corporate Hybrid
- Best Deal of Thailand
- Best Investment Grade Bond

The Asset Magazine Securities and Exchange Commission and Thaipat Institute Chulalongkorn University, Faculty of Commerce and Accountancy Money and Banking Magazine Thailand Quality Award National Committee of Thailand Productivity Institute RobecoSAM

International Organization for Standardization

The Asset Magazine The Asset Magazine FinanceAsia Magazine





LRQA Assurance Statement

Relating to PTT Exploration and Production Public Company Limited's environmental and occupational health and safety indicators within the Sustainability Report for the calendar year 2014

This Assurance Statement has been prepared for PTT Exploration and Production Public Company Limited in accordance with our contract but is intended for the readers of this Report.

Terms of engagement

Lloyd's Register Quality Assurance Ltd. (LRQA) was commissioned by PTT Exploration and Production Public Company Limited (PTTEP) to provide independent assurance on its 'Sustainability Report 2014' ("the report") against the assurance criteria below to a limited level of assurance and at the materiality of the professional judgement of the verifier using 'LRQA's verification approach'. LRQA's verification approach is based on current best practice and uses the principles of AA1000AS (2008) - Inclusivity, Materiality, Responsiveness and Reliability of performance data and processes defined in ISAE3000.

Our assurance engagement covered PTTEP's production operations phase and activities in Thailand only which included reporting boundaries and specifically the following requirements:

- Confirming whether the selected environmental and occupational health and safety indicators below were compiled according to:
 - GRI G4's Sustainability Reporting Guidelines and
 - GRI G4's Oil and Gas Sector Disclosure.
- Evaluating the accuracy and reliability of data and information for the selected indicators listed below:
 - Environmental: energy consumption within the organization (G4-EN3), total water withdrawal by source (G4-EN8), GHG scope 1, 2 and 3 (G4-EN15-17), ozone depleting substances (ODS), NOx, SOx and other significant air emissions (G4-EN20-21), total water discharge by quality and destination (G4-EN22), total weight of waste generation, waste by type and disposal method (G4-EN23), total number and volume of significant spill (G4-EN24), volume and disposal of produced water (G4-OG 5) and amount of drilling waste and disposal (G4-OG7), and
 - Social: type of injury and rates of injury and occupational diseases (G4-LA6) for exploration and production phases.

Our assurance engagement excluded the environmental data and information of PTTEP's exploration phase in Thailand. All of PTTEP's exploration and production phases, and petroleum development support bases outside of Thailand were also excluded.

LRQA's responsibility is only to PTTEP. LRQA disclaims any liability or responsibility to others as explained in the end footnote. PTTEP's responsibility is for collecting, aggregating, analysing and presenting all the data and information within the report and for maintaining effective internal controls over the systems from which the report is derived. Ultimately, the report has been approved by, and remains the responsibility of PTTEP.

LRQA's Opinion

Based on LRQA's approach nothing has come to our attention that would cause us to believe that PTTEP has not:

- Met the requirements above
- Disclosed reliable performance data and information for the selected environment and occupational health and safety indicators under reporting boundaries as no errors or omissions were detected.

The opinion expressed is formed on the basis of a limited level of assurance and at the materiality of the professional judgement of the verifier.

Note: The extent of evidence-gathering for a limited assurance engagement is less than for a reasonable assurance engagement. Limited assurance engagements focus on aggregated data rather than physically checking source data at sites.



LRQA's approach

LRQA's assurance engagements are carried out in accordance with our verification procedure. The following tasks though were undertaken as part of the evidence gathering process for this assurance engagement:

- Auditing PTTEP's data management systems to confirm that there were no significant errors, omissions
 or mis-statements in the report. We did this by reviewing the effectiveness of data handling procedures,
 instructions and systems, including those for internal verification. We also spoke with those key people
 responsible for compiling the data and drafting the report.
- Visiting the S1 Project to sample evidence for the selected environmental and occupational health and safety indicators to confirm its reliability. The S1 Project was visited because water discharge and waste disposal were largest here among PTTEP's production phase operations. No off-shore production operation assets were visited during this assurance engagement.
- Sampling the consolidated data and information at PTTEP's head office in Bangkok.

Observations

Further observations and findings, made during the assurance engagement, are:

- Reliability: The centralized system for data and information collection from PTTEP's assets within
 Thailand to the head office level has improved and implemented a review structure that includes an
 internal verification process. However, we believe that PTTEP should also implement this process to
 cover its international sites as to ensure the readiness of both data and systems for the next assurance
 engagement.
- Future reports: PTTEP should consider reviewing significant changes to its reporting boundaries both inside and outside Thailand. This is particular to the disclosure of its material aspects and the comparability of its environmental and occupational health and safety performance, for example, the base year re-calculation and completeness review of its GHG emission data and information.

LRQA's competence and independence

LRQA ensures the selection of appropriately qualified individuals based on their qualifications, training and experience. The outcome of all verification and certification assessments is then internally reviewed by senior management to ensure that the approach applied is rigorous and transparent.

This verification is the only work undertaken by LRQA for PTTEP and as such does not compromise our independence or impartiality.

Signed

Dated: 19 February 2015

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Opart Charuratana LRQA Lead Verifier On behalf of Lloyd's Register Quality Assurance Ltd. Lloyd's Register International (Thailand) Limited 14th Floor, Sirinrat Building, 3388/46 Rama IV Road Klongton, Klongtoey, Bangkok 10110 THAILAND LRQA reference: BGK6022747

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GRI Content Index & UNGC Principles

MATERIALITY DISCLOSURES

GENERAL STANDARD DISCLOSURES

General Stand Disclosures		Page Number (or Link)	Omissions/ Remarks	External Assurance	UNGC Principles
Strategy and	G4-1	10-11	-	-	-
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Organizational	G4-3	http://www.pttep.com/en/aboutPttep_PTTEPGroup.aspx	-	-	-
Profile	G4-4	14	-	-	-
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	G4-30	http://www.pttep.com/en/CSR_Publication_5.aspx?page=all	-	-	-
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General Standard Disclosures	Page Number (or Link)	Omissions/ Remarks	External Assurance	UNGC Principles
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	http://www.pttep.com/en/CSR_CorporateGovernanceDetail.aspx?ContentID=159			
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		confidential.		
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GRI Content Index & UNGC Principles

SPECIFIC STANDARD DISCLOSURES

Material Aspects	DMA and Indicators	Page Number (or Link)	Omissions/Remarks	External Assurance	UNGC Principles
ECONOMIC					
Economic Performance	G4-DMA	12-14	-	-	-
	G4-EC1 _{ogss}	56	-	-	-
	G4-EC2 _{ogss}	37-38	-	-	7
	G4-EC3	46-47	-	-	-
	G4-EC4	68	PTTEP does not receive financial	-	-
			assistance from government.		
Indirect Economic	G4-DMA	48-52	-	-	-
Impacts	G4-EC7 _{OGSS}	51	-	-	-
	G4-EC8 _{ogss}	51-52	-	-	-
ENVIRONMENTAL					
Energy	G4-DMA	37-39	-	-	-
	G4-EN3	56	-	\checkmark	7, 8
	G4-EN4	-	PTTEP does not report energy	-	8
			consumption outside of the		
			organization publicly at this time.		
	G4-EN5 _{OGSS}	56	-	-	8
	G4-EN6	38	-	-	8, 9
	G4-EN7	-	Not applicable to PTTEP business.	-	8, 9
	G4-0G2	-	Not applicable to PTTEP business.	-	-
	G4-OG3	-	Not applicable to PTTEP business.	-	-
Water	G4-DMA	36	-	-	-
	G4-EN8 _{ogss}	36	-	\checkmark	7,8
	G4-EN9 _{OGSS}	36	-	-	8
	G4-EN10	68	No recycled or reused water in 2014.	-	8
Biodiversity	G4-DMA _{ogss}	40-41	-	-	-
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	G4-EN24	34	-	\checkmark	8
	G4-EN25	58	-	-	8
	G4-EN26	36	-	-	8
	G4-OG5	36	-	\checkmark	-
	G4-OG6	56	-	-	-
	G4-0G7	35	-	\checkmark	-
Compliance	G4-DMA	32-33	-	-	-
	G4-EN29	58	-	-	8
Supplier Environmental	G4-DMA	30-31	-	-	-
Assessment	G4-EN32	69	100% of new suppliers are assessed	-	8
			using environmental, social, human		
			rights, and labor practice criteria.		
	G4-EN33	-	Information will be reported in	-	8
			next year's report.		
Environmental	G4-DMA	48-49	-	-	-
Grievance Mechanisms	G4-EN34	49	-	-	8
LABOR PRACTICES					
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	G4-LA3	59	-	-	6
Occupational Health	G4-DMA	42-43	-	-	-
and Safety	G4-LA5	47	-	-	-
	G4-LA6	60-61	-	\checkmark	-
	G4-LA7	42	-	-	-
	G4-LA8	47	-	-	-
Training and Education	G4-DMA	44-46	-	-	-
	G4-LA9	45, 60	-	-	6
	G4-LA10	44-47	-	-	-
	G4-LA11	46	-	-	6
Supplier Assessment	G4-DMA	30-31	-	-	-
for Labor Practices	G4-LA14	69	100% of new suppliers are assessed		
			using environmental, social, human		
			rights, and labor practice criteria.	-	-
	G4-LA15	-	Information will be reported in	-	-
			next year's report.		

GRI Content Index & UNGC Principles

Material Aspects	DMA and Indicators	Page Number (or Link)	Omissions/Remarks	External Assurance	UNGC Principles
Labor Practices	G4-DMA	23-24, 47	-	-	-
Grievance Mechanisms	G4-LA16	24	-	-	-
HUMAN RIGHTS					
Non-discrimination	G4-DMA	23-24, 47	-	-	-
	G4-HR3	24	-	-	6
Supplier Human Rights	G4-DMA	30-31	-	-	-
Assessment	G4-HR10	70	100% of new suppliers are assessed	-	2
			using environmental, social, human		
			rights, and labor practice criteria.		
	G4-HR11	-	Information will be reported	-	2
			in next year's report.		
Human Rights	G4-DMA	23-24, 47	-	-	-
Grievance Mechanisms	G4-HR12	24	-	-	1
SOCIETY					
Local Communities	G4-DMA _{ogss}	48-49	-	-	-
	G4-SO1	6-7, 48, 51	-	-	1
	G4-SO2 _{OGSS}	48-49	-	-	1
	G4-OG10	49	-	-	-
	G4-OG11	70	Zero sites have been	-	-
			decommissioned.		
Anti-Corruption	G4-DMA	23-24	-	-	-
	G4-SO3	24-25	-	-	10
	G4-SO4	23-24	-	-	10
	G4-SO5	25	-	-	10
Compliance	G4-DMA	23-24	-	-	-
	G4-SO8 _{OGSS}	58	-	-	-
Supplier Assessment	G4-DMA	30-31	-	-	-
for Impacts on Society	G4-SO9	70	100% of new suppliers are assessed	-	-
			using environmental, social, human		
			rights, and labor practice criteria.		
	G4-SO10	-	Information will be reported	-	-
			in next year's report.		
Grievance Mechanisms	G4-DMA	48-49	-	-	-
for Impacts on Society	G4-SO11	49	-	-	-
Asset Integrity and	G4-DMA _{ogss}	33	-	-	-
Process Safety	G4-OG13	33, 61	-	-	-

About This Report

The materiality assessment process to identify and prioritize relevant material issues in the PTTEP Sustainability Report was conducted with consideration of the importance to stakeholders and to our business.

Reporting Approach

The purpose of the PTTEP Sustainability Report is to communicate material issues that were important to our stakeholders and our Company during the past 12 months of 2014. The report applies the Sustainability Reporting Guideline: Oil and Gas Sector Supplement (OGSS) G4 of the Global Reporting Initiative (GRI) Core Level, an internationally accepted reporting approach that encompasses economic, social and environmental issues. In 2016, PTTEP intends to begin reporting at the GRI Comprehensive Level. PTTEP is solely responsible for the information contained in this report and especially that which pertains to our sustainability performance. The content has received approval from the SSHE-SD Council.

To assess the validity of the disclosed information, PTTEP has selected Lloyd's Register International (Thailand) Limited to conduct an independent audit of the environmental and safety data. The certification is presented in the Statement of External Assurance section. External auditing of financial statements has been further carried out by an independent auditor from the Office of the Auditor General of Thailand, and the Audit Report is published in the PTTEP Annual Report.

Stakeholder Engagement Approach (G4-25, G4-2

PTTEP stakeholders are classified into six groups as follows: 1) Government 2) Community and Society 3) Shareholders, Institutional Investors and Researchers 4) Suppliers and Contractors 5) Employees and 6) Independent Organizations, Industrial Associations, and Press and Media. Feedback received from our stakeholder engagement activities is incorporated into all three dimensions of our sustainability practices - economic, social and environmental - for consideration and improvement of the efficiency of our operations.



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Stakeholder Engagement Activities ^{(G4-24, G4-2}

Government

Engagement Approach

- Case-by-case meetings
- Monthly meetings with the Department of Local Administration
- Performance Summary 2014
- PTTEP regularly consults with government officials to understand and monitor the effectiveness of mitigation measures.

Community and Society

Engagement Approach

- Monthly meetings with community and civil society groups
- Public hearing
- Suggestions and complaints
- Performance Summary 2014
- PTTEP continuously prevents impacts from operation to communities and develops community and social projects to generate benefits that reflect stakeholders' interests and are in line with PTTEP social development strategy.





Shareholders, Institutional Investors and Researchers

Engagement Approach

- Annual Shareholders General Meeting
- Analyst meetings
- Shareholder and investor roadshow

Suggestions and complaints

- Performance Summary 2014
- PTTEP coordinates and provides accurate information to our relevant stakeholders. We organize various activities including the 2014 Annual General Shareholders' Meeting and the quarterly Analyst Meeting to communicate with investors, roadshows to see our shareholders and investors, and CSR activities.

Suppliers and Contractors

- Engagement Approach
- PTTEP Vendor Portal
- Suggestions and complaints

Performance Summary 2014

PTTEP has established a PTTEP Vendor Sustainable Code of Conduct for suppliers and contractors to acknowledge and act in accordance with this code which aligns with our commitment to good corporate governance.



Employees

Engagement Approach

- Employee engagement surveys
- CG Hotline
- PTTEP intranet

Performance Summary 2014

PTTEP conducted the annual employee engagement survey in 2014 and continuously promotes the EP SPIRIT values among our employees.

Independent Organizations, Industrial Associations, and Press and Media Engagement Approach

PTTEP membership in various organizations

Performance Summary 2014

PTTEP strives to mitigate our social and environmental impacts by getting involved with various independent organizations and disclosing information in a transparent manner.



Stakeholder Opinions (G4-27)

In 2014, PTTEP carried out surveys of stakeholders from various groups, including investors, contractors, customers and sustainability experts. The surveys gauged stakeholder level of satisfaction on material issues and allowed them to provide suggestions for improvement. Important points included:

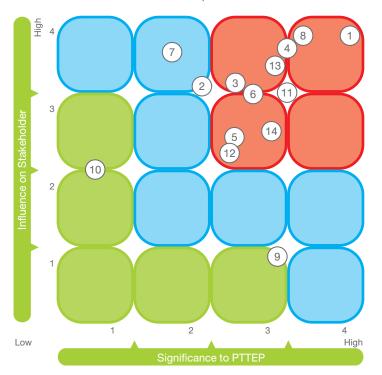
- PTTEP should demonstrate an efficient management approach to allow the Company to grow and meet its business targets, which will create confidence among investors and relevant stakeholders.
- Given that human capital is an important driver of the Company sustainable development, PTTEP should continuously support human capital development initiatives to increase employee potential and operational efficiency.
- PTTEP should increase support to social development projects that emphasize the environment, as communities and society groups are demonstrating greater awareness for improving environmental quality.

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Identification of Material Aspects^{(G4-18, G4-22}

To identify material aspects that are of importance to PTTEP and that align with stakeholder interests, the material assessment was conducted through the following process:

- 1. Identify PTTEP material issues by consideration of PTTEP strategies, risks, challenges, activities, expectations and interests of stakeholders, covering environmental, social and corporate governance aspects.
- 2. Determine reporting boundaries to ensure that the material issues cover all relevant stakeholder groups, such as subsidiary companies, suppliers, subcontractors, etc.
- 3. Prioritize material issues by measuring their level of importance to PTTEP, based on the Company risk assessment criteria and stakeholder interests.
- 4. Propose findings to the Sustainable Development Working Team for review and approval prior to publication in the Company annual report, sustainability report and website.
- 5. Review information in the report to ensure alignment with GRI G4 guidelines and the accuracy of data by external verification and improve stakeholder engagement processes to ensure that the Sustainability Report reflects stakeholders' interests.



Material Aspect 2014 (G4-19)

Economic Dimension

- 1. Business Growth
- 2. Good Corporate Governance
- 3. Business Ethics and Human Rights
- 4. Risk and Crisis Management
- 5. Supply Chain Management

Environment Dimension

- 6. Operational Eco-Efficiency
- 7. Water Management
- 8. Climate Change Management
- 9. Biodiversity
- 10. Energy

Social Dimension

- 11. Capital Project Development
- 12. Health and Safety
- 13. Employees
- 14. Community and Society

Scope and Reporting Boundaries (G4-17, G4-20, G4-21)

This report covers PTTEP projects both domestically and internationally (see the PTTEP Business section) in which we act as an Operator, as data collection system within these countries are most prompted. In this report, PTTEP discloses performance related to our business partnerships, such as suppliers and contractors. Financial information, in particular financial statements, has been verified by financial auditors in order to ensure compliance to accounting principles and has been approved by the Audit Committee/Board of Directors of PTTEP prior to public disclosure. In addition, PTTEP has reported on our financial reporting responsibility in the Annual Report.

As PTTEP is a subsidiary of the PTT Public Company Limited the information presented here is also included in PTT Corporate Sustainability Report.

Summary of Material Aspects (G4-18, G4-20, G4-21)

Material Aspects	GRI Material Aspects	Chapters
1. Business Growth	 Economic Performance Indirect Economic Impacts 	 About PTTEP Community and Social Development SD Performance Summary
2. Good Corporate Governance	-	Good Corporate Governance
3. Business Ethics and Human Rights	 Anti-corruption Labor Practices Grievance Mechanisms Human Rights Grievance Mechanisms Environmental Grievance Mechanisms Non-discrimination Compliance 	Business Ethics and Human Rights
4. Risk and Crisis Management	-	Risk and Crisis Management
5. Supply Chain Management	 Supplier Environmental Assessment Supplier Assessment for Labor Practices Supplier Assessment for Impacts on Society Supplier Human Rights Assessment 	Supply Chain Management
6. Operational Eco-Efficiency	Environmental ComplianceEffluents and Waste	 Operational Eco-Efficiency SD Performance Summary
7. Water Management	▶ Water	Operational Eco-EfficiencySD Performance Summary
8. Climate Change Management	Emissions	 Energy and Climate Change Management SD Performance Summary
9. Biodiversity	Biodiversity	Biodiversity
10. Energy	► Energy	 Energy and Climate Change Management SD Performance Summary
11. Capital Project Development	 Local Communities Grievance Mechanisms for Impacts on Society 	Managing Impacts on Communities
12. Health and Safety	 Occupational Health and Safety Process Safety 	 Safety Culture Integrated Environmental Management SD Performance Summary
13. Employees	RecruitmentTraining and Education	PTTEP EmployeesSD Performance Summary
14. Community and Society	 Indirect Economic Impacts Local communities 	 Community and Social Development SD Performance Summary

Remarks:

1. Environmental data covers PTTEP operating projects in Thailand, Australia, Oman and Zawtika Project in Myanmar only. PTTEP plans to improve data collection process to expand reporting boundaries for all countries where PTTEP is an operator.

2. Economic performance data in this report follows the same reporting boundary as PTTEP Annual Report 2014.



Survey of Readers' Opinions

1 Deep the report state	with an understor -line of DTTED		
 Does the report provide you Yes, fully 	with an understanding of PTTEP si		
	res, paruany	Not at all	
2. Please rate your satisfaction	of PTTEP Sustainability Report 20	Ļ	
Completeness	High Medium	Low	Dissatisfied
Topics	High Medium	Low	Dissatisfied
Ease to understand	High Medium	Low	Dissatisfied
Report design	High Medium	Low	Dissatisfied
Overall satisfaction	High Medium	Low	Dissatisfied
 What additional issues should 	d be included in the PTTEP Sustai	ability Report?	
4. Please provide further comm	ents and/or suggestions (if any).		
5. Which best describes you as	a stakeholder?		ia
5. Which best describes you as	a stakeholder?	Mec	
5. Which best describes you as	a stakeholder?	Res	earch / Academic Institution
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2014 SUSTAINABILITY REPORT

EXPLORING FOR A SUSTAINABLE HAPPINESS

Dow Jones Sustainability Indices In Collaboration with RobecoSAM (

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กรุณาส่ง

บริษัท ปตท.สำรวจและผลิตปิโตรเลียม จำกัด (มหาชน) ฝ่ายโครงการเพื่อสังคม ศูนย์เอนเนอร์ยี่คอมเพล็กซ์ อาคารเอ ชั้นที่ 6, 19-36 เลขที่ 555/1 ถนนวิภาวดีรังสิต แขวงจตุจักร เขตจตุจักร กรุงเทพฯ 10900



EXPLORING FOR A SUSTAINABLE HAPPINESS





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