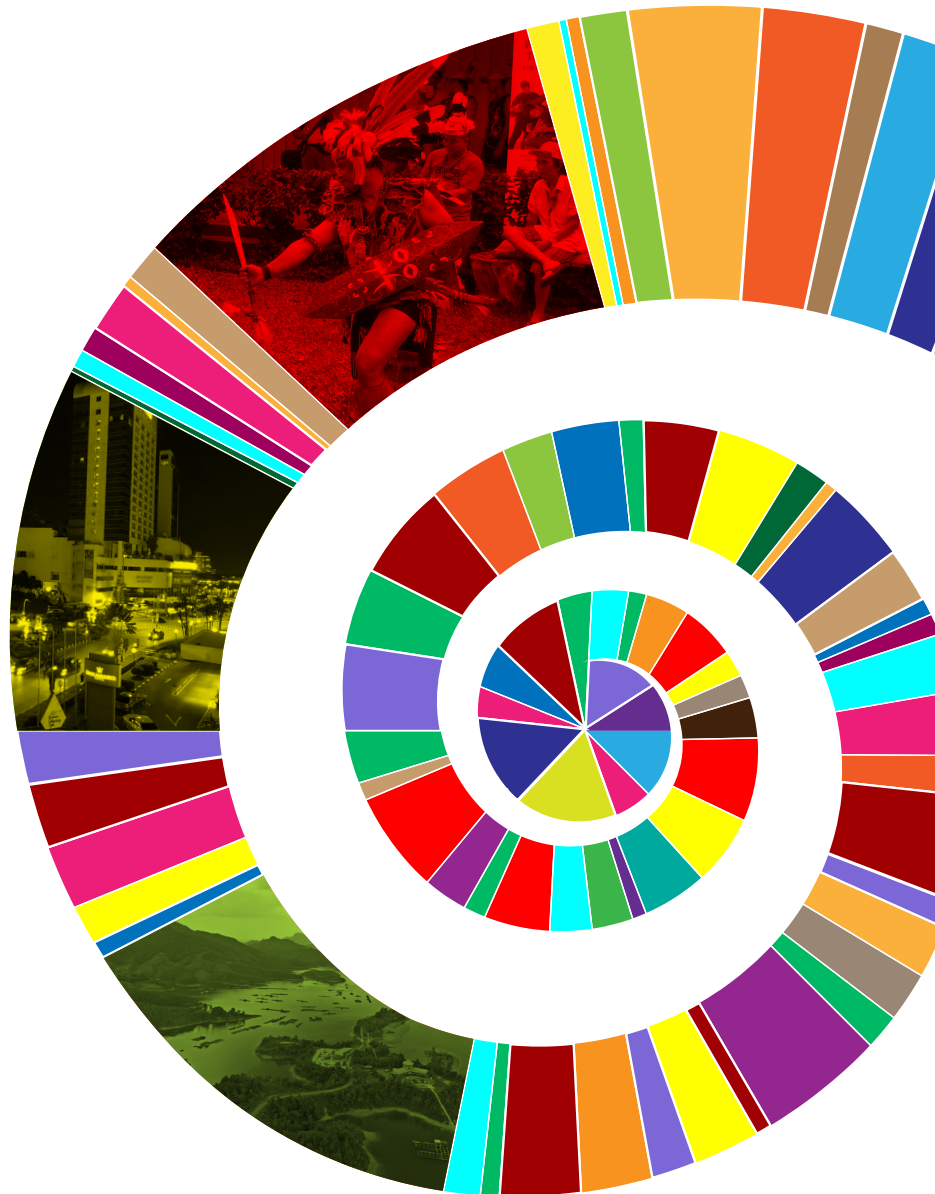


Creating Value

SUSTAINABILITY
REPORT 2017



Creating Value

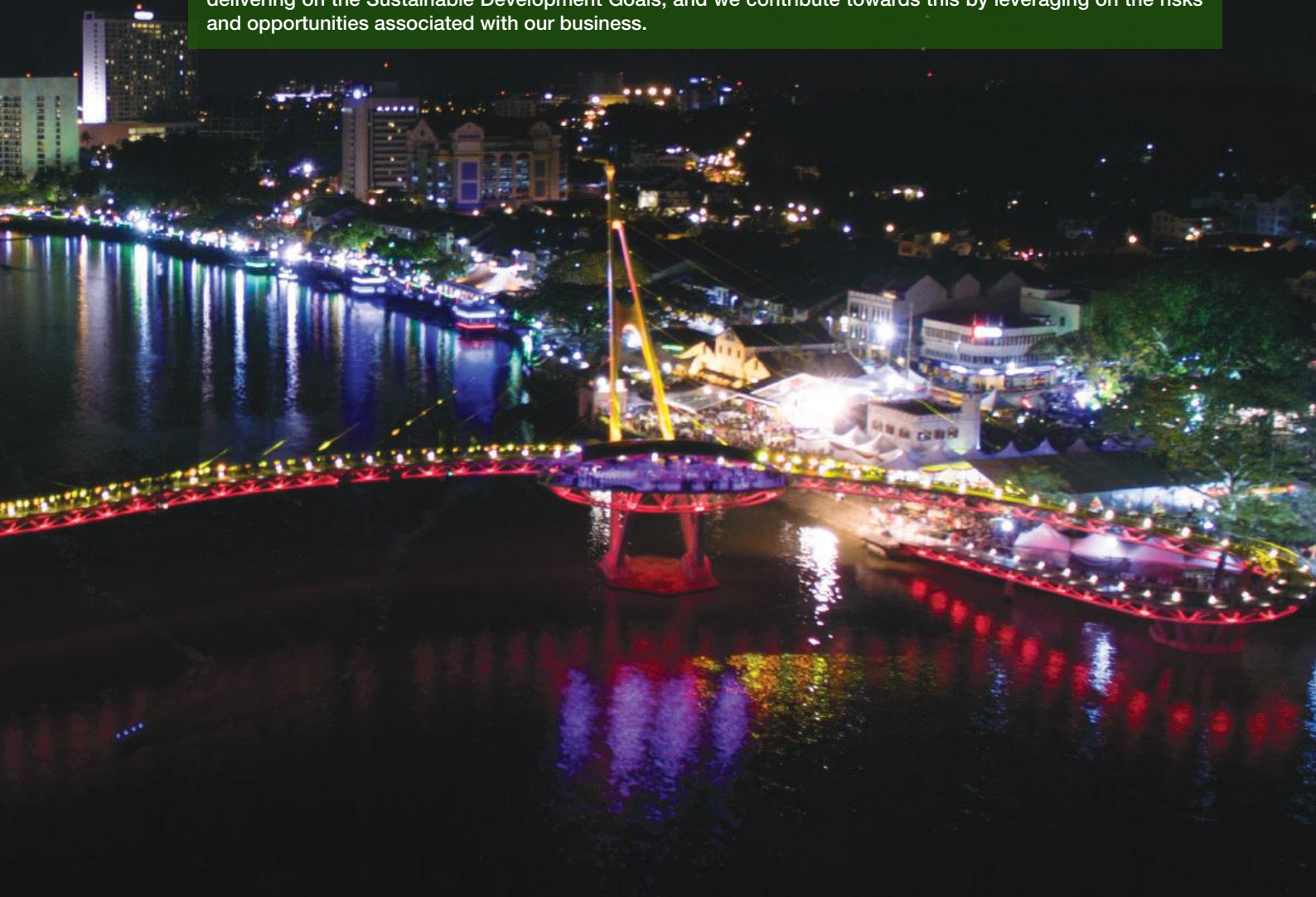


Businesses create the most value when they fulfil society's needs in significant ways, and as such, Sarawak Energy's sustainability strategy focuses on specific areas of the Company's business activities where value can best be created for all stakeholders.

Creating Value is about leveraging on the risks and opportunities of the business impacts on economic, social and environment factors. As a hydropower project developer and power utility that generates, transmits and distributes electricity, Sarawak Energy faces unique challenges and trade-offs from its economic, environmental and social impacts.

In realising the company's vision for sustainable growth and prosperity for Sarawak, we also embrace the United Nations' Sustainable Development Goals, which is a set of 17 targets that call for the cooperation of the public sector, private sector and civil society to contribute toward the global sustainability agenda.

At Sarawak Energy we understand the importance of creating value at State and National levels, as well as delivering on the Sustainable Development Goals, and we contribute towards this by leveraging on the risks and opportunities associated with our business.



The nightscape of Kuching City Waterfront with Sarawak State Legislative Assembly Building and the iconic Darul Hana Bridge.

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**YBHG. DATUK AMAR ABDUL HAMED
BIN SEPAWI**

Chairman

Chairman's Foreword

Sarawak Energy aspires to be a leader in sustainability. Adopting sustainable mechanisms in our business and operations and benchmarking ourselves against the best in the industry are crucial to enable us to move towards our vision of providing sustainable growth and prosperity for Sarawak by meeting the region's need for reliable, renewable and affordable energy.

Our sustainability strategy is centered around the areas that are material to us, identified through our business impacts and developed through a multi-stakeholder process involving representatives from internal and external stakeholders.

As the biggest renewable energy generator in Malaysia, Sarawak Energy is delivering clean, reliable and affordable source of energy to meet the State's demand and to power economic and social development. I am pleased to note that renewable energy generation has increased by 20% since 2016, and this has enabled us to further reduce our main grid CO₂ emission intensity by 10% from 0.237¹ tCO₂eq/MWh in 2016 to 0.213* tCO₂eq/MWh in 2017.

We are also exploring new opportunities to advance our green energy agenda. Currently our generation mix is dominated by renewable hydro and we are looking at increasing our alternative green energy sources such as solar and biomass in our long term mix.

¹ This main grid CO₂ emission intensity data has been assured by a third party for Sustainability Report 2016.

* This main grid CO₂ emission intensity data has been assured by a third party. Read the Independent Assurance Report on pages 76 - 77.

Chairman's Foreword



Sustainability is a strategic approach to long-term material risks and opportunities in creating value to all our stakeholders leveraging on a real business value



On the environment front, we are greening transportation by using electric vehicles as part of our official corporate fleet. Given electricity in Sarawak is largely renewable and affordable, it is logical to electrify our transportation sector to further reduce our carbon footprint in the State.

Sarawak Energy has also been tasked by the State to pilot hydrogen fuel cell research for practical applications such as transportation. Our advantage in renewable electricity and ample water supply again gives Sarawak Energy a great platform to advance this technology for transportation, industry and for power.

This also provides an additional opportunity to capitalise on our position as sustainable energy developers and to explore other ways to green the transportation sector – in this case via research into hydrogen and fuel cell application.

In alignment with the United Nations (UN) Sustainable Development Goal or SGD No. 17 - Partnerships for the Goals, we are able to tap into and contribute to global expertise and best practice through our international partnerships. Sarawak Energy is a Platinum Member of the International Hydropower Association (IHA) and the Group CEO of Sarawak Energy, Datu Sharbini Suhaili, is an elected member of the Board. We are also a member of the UN Global Compact Network Malaysia which we serve on as the Vice President and are also a member of the GRI GOLD community of the Global Reporting Initiative.

Sarawak Energy is committed to continuous improvement in our sustainability journey to create value and continuous growth for the organisation, the State and its people.

YBhg Datuk Amar Abdul Hamed Bin Sepawi

Chairman

Revenue

▲ **17%** year-on-year to
RM 5,004 million

Electricity Sales (RM)

4% of State GDP

Operating Expenses Ratio

▼ **19%** year-on-year to
RM 1,834 million

Units Sold Per Employee

4.78 GWh/Staff

Scope of the Report

This report has been prepared in accordance with the GRI Standards: Core option. This report reflects data and activities from 1st January to 31st December 2017 for the operations of the Sarawak Energy Group of Companies in the state of Sarawak.

2017 Highlights

Our Performance at a Glance

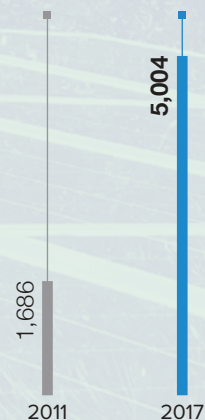
For Sarawak Energy, it is not just about generating power for the State of Sarawak but also about creating impactful and meaningful values for all of our stakeholders within our supply chain as well as the lives of the communities surrounding our operations.

During the year under review, we continued to make progress on our journey to be a successful and responsible long-term energy business as we embarked on several key initiatives that are aligned with our sustainability pillars of Catalysing Economic Sustainability, Transitioning Social Outcomes and Improving Our Environmental Footprint. These initiatives address the Company's challenges such as meeting the needs of our growing number of customers, improving our environmental performance and also caring for our people – both our employees and that of our local communities.

Below is a brief summary of our performance in 2017

Revenue (RM Million)

▲ **196.80%**



Electric Sales (GWh)

▲ **256.71%**



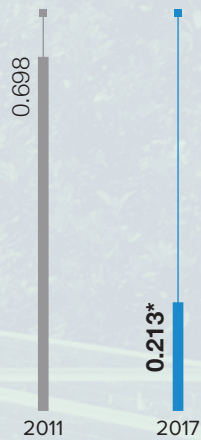
Renewable Energy Generated (GWh)

▲ **1,441.75%**



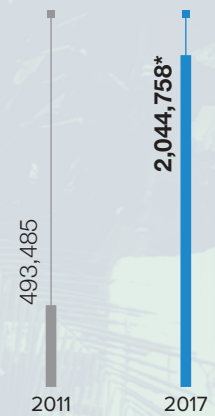
Emission Intensity - Main Grid (tCO₂eq/MWh)

▼ 69.48%



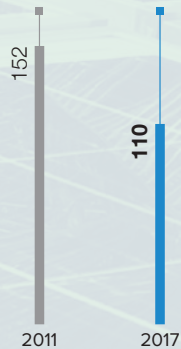
Tenders Awarded to Locals (RM'000)

▲ 314.35%



System Average Interruption Duration Index (SAIDI) - Distribution (Minutes per Customer)

▼ 27.63%



Total Hours of Training (Hours)

▲ 101.77%



Note:

* These main grid CO₂ emission intensity and total value of tenders awarded to local companies data have been assured by a third party. Read the Independent Assurance Report on pages 76 - 77.

Organisational Profile



About Sarawak Energy

Energy utility Sarawak Energy Berhad is a wholly-owned entity of the Sarawak State Government, principally involved in the generation, transmission, distribution and retail of electricity in the state of Sarawak. Driven by our vision of achieving sustainable growth and prosperity for the State by meeting the region's need for reliable, renewable energy, we have been responsible for the provision of clean and sustainable energy to power Sarawak's economic and social growth for more than 100 years.

We currently operate three large hydropower plants in Bakun, Murum and Batang Ai. In addition to that, we also operate nine thermal power stations with the main being the Bintulu Combined Cycle Plant, which has been registered with the United Nations under the Clean Development Management (CDM) scheme that is part of the Kyoto Protocol Agreement. Out of the nine, three are coal based, three are diesel-based and three using a combination of natural gas and diesel. Since 2016, we have been exporting electricity to West Kalimantan, Indonesia.

Our business comprises three core activities, namely the generation of electricity, and its transmission and distribution to our domestic, commercial, industrial, SCORE and export customers. We are currently developing our 500kV transmission backbone to strengthen our power system reliability and minimise the risk of power interruptions in the south of Sarawak by providing additional transmission capacity.

We aspire to transform ourselves into a modern, international and agile corporation that is driven by a strong corporate ethos and supported by the nurturing of a new mindset in which sustainability is integrated into the fabric of our operations. In line with this aspiration, we have expanded our workforce by over 4,950 employees and each of them have been provided with opportunities to connect with a network of power industry professionals from around the world. This has ensured that we are on track to increase the State's power output from approximately 5,000GWh per year in 2009 to approximately 30,000GWh per year in 2020.



Generation



Transmission



Distribution



Retail

Generation

- Main Grid connected capacity comprises 74% hydro, 13% gas, 10% coal, 3% diesel
- Capacity to increase to 5,300MW by 2020

Transmission

- Sarawak State Grid comprises 2,645.8km of transmission lines
- 509 km Backbone Transmission Grid (500kV) to be completed by Q4 2018

Distribution

- Our Distribution system is divided into 3 main regions namely Western, Central and Northern
- Distribution lines comprise 33kV, 11kV and 415V lines
- Total Distance Distribution Line System: 34,421.06km

Retail

- Number of Customer Accounts
 1. SCORE: 13¹
 2. Domestic: 576,934
 3. Commercial: 99,839
 4. Industry: 1,070

Note:

¹ Based on Power Purchase Agreements (PPA) signed with Sarawak Energy.



Our Vision

To achieve sustainable growth and prosperity for Sarawak by meeting the region's need for reliable, renewable energy

Our Mission

- Pursue opportunities for growth by fully developing the Sarawak Government's SCORE agenda
- Ensure our own safety and the safety of others with a commitment to do "no harm to anyone at any time"
- Provide a reliable supply of clean, competitively priced energy to support the economic and social development of Sarawak and our partners in the region
- Operate as a business based on principles that reward our owners and employees and delight our customers
- Honour the trust placed in us by the people of Sarawak by acknowledging and respecting them and contributing to their well-being
- Set and achieve high ethical and corporate standards that are a source of pride for our employees, customers and owners
- Develop our people, leadership and teamwork to build an agile, open, corporate and customer-focused culture that responds to challenges and the need for change with innovation and cooperation
- Harness and utilise natural resources in a sustainable and responsible way
- Achieve operational excellence through a commitment to continual improvement and best practices

Board of Directors

The Board of Directors is responsible for establishing Sarawak Energy's strategic direction, overseeing the performance of the company, and ensuring we have sufficient risk management controls to safeguard the sustainability of the company. As caretakers of our shareholders' interests, the Board is also ultimately responsible for our financial performance, balancing this with our environmental, social and governance obligations.

The Board sets the tone of the company's values and standards, and works with management for a meaningful consideration of key sustainability issues throughout the organisation. Sarawak

Energy's Board currently comprises five individuals, each contributing many years of experience and expertise in their respective area of professionalism – from business, accounting, law and economics to public administration.

The Chairman leads the Board and monitors its effectiveness as well as conduct. He is supported by four non-executive directors, including an independent director who strengthens the Board's decisions with an element of objectivity. Collectively, the Board strives to provide sound advice and judgement to influence positive outcomes for the company and our stakeholders.



YBhg. Datuk Amar Abdul Hamed bin Sepawi
Chairman, Non-Independent
Non-Executive Director



YB Tan Sri Datuk Amar Haji Mohamad Morshidi bin Haji Abdul Ghani
Non-Independent
Non-Executive Director



YBhg. Tan Sri Dato Sri Mohd Hassan bin Marican
Independent
Non-Executive Director

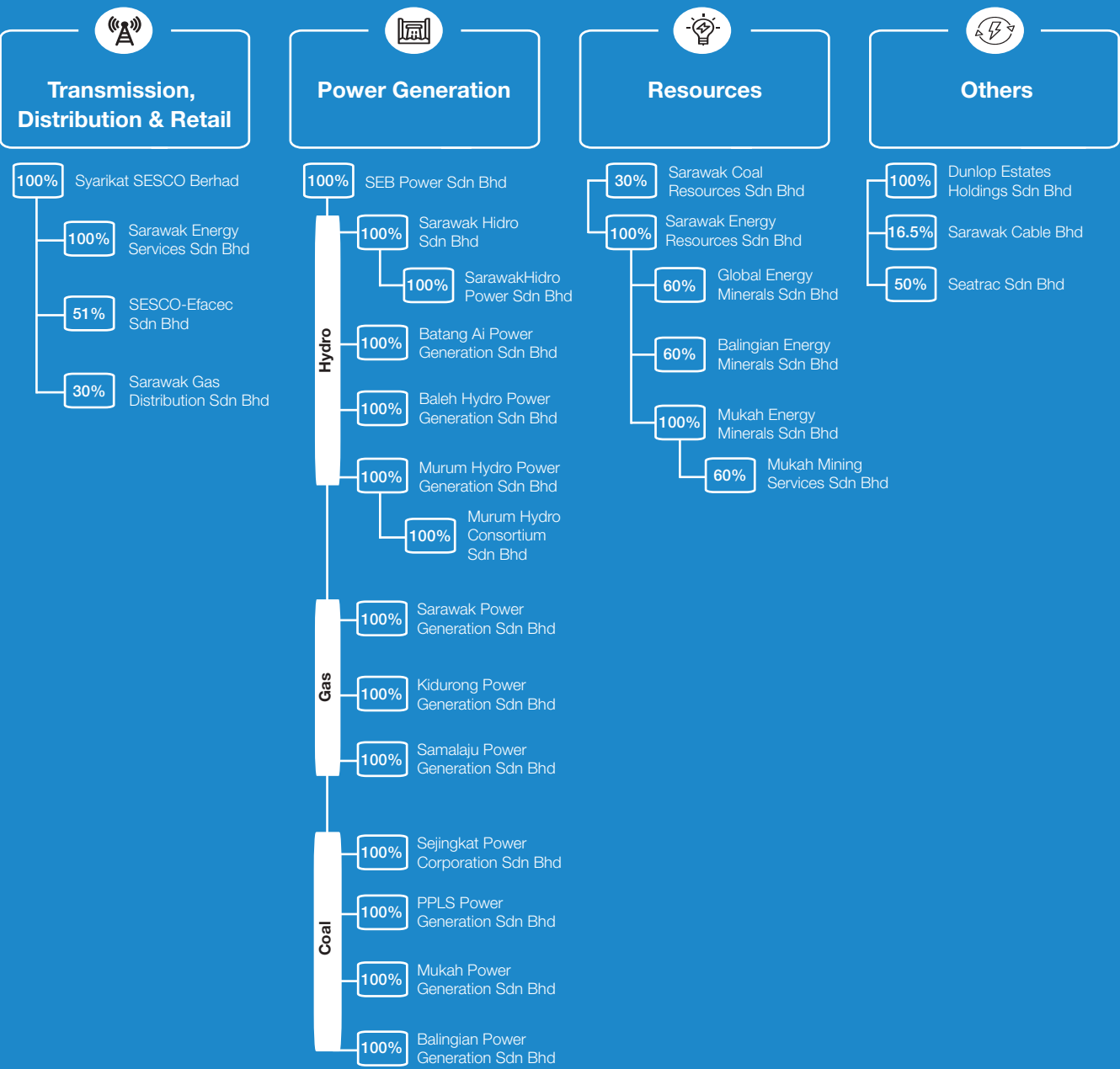


YBhg. Dato Sri Fong Joo Chung
Non-Independent
Non-Executive Director



YB Dato' Haji Idris bin Haji Buang
Non-Independent
Non-Executive Director

Our Corporate Structure



Governance



**Datu Sharbini
Bin Suhaili**
Group Chief Executive Officer



Mr. Lu Yew Hung
Group Chief Operating Officer



Puan Aisah Eden
Executive Vice President,
Corporate Services



Mr. Alexander Chin
Chief Financial Officer



Dr. Mak Anak Met
Senior Vice President,
Human Resources



Mr. Einar Kilde
Executive Vice President,
Project Execution



Mr. Ting Ching Zung
Executive Vice President,
Strategy &
Corporate Development



Mr. James Ung
Chief Executive Officer,
SEB Power Sdn. Bhd.



**Mr. Nooruddin Bin
Abdullah**
Senior Vice President,
Legal & Enterprise Risk



Mr. Lau Kim Swee
Chief Executive Officer,
SESCO



**Tuan Hj Sulaiman Hj
Abdul Hamid**
Senior Vice President,
Contract & Procurement



**Mr. Nick James
Arnett Wright**
Vice President,
Business Development



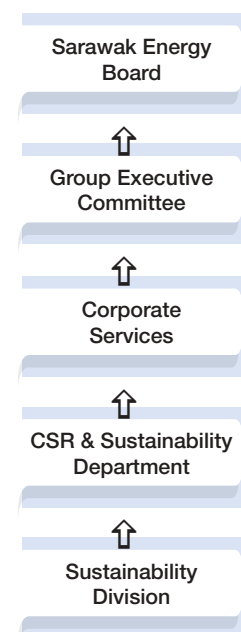
Mr. Marconi Madai
Acting Vice President,
Health, Safety,
Security & Environment

Group Executive Committee

In 2017 we restructured our management to enhance the decision-making process. The GEC was formed to deliberate on major issues, as well as to review, assess and endorse our current and future strategic direction. Comprising 13 members, the GEC meets every week to ensure we achieve our short and long-term goals, underlining our sustainable growth.

Sustainability Division

The Sustainability Division was formed in 2012 to oversee our sustainability efforts and to ensure these are integrated into Sarawak Energy's strategic direction. The division is responsible for the processes for the implementation, measurement and verification of the Company's sustainability performance.



*Figure: Sustainability Division
Reporting Chart*





Strategy

GCEO's Overview..... 20

A professional portrait of a middle-aged man with dark hair, wearing a dark suit, white shirt, and a patterned tie. He is looking directly at the camera with a slight smile. The background is a light-colored wall with vertical stripes.

DATU SHARBINI SUHAILI

Group Chief Executive Officer

GCEO's Overview

Sarawak Energy aims to fully embed sustainability at every level of the organisation, from our corporate and business processes to projects and operations, as we develop our resources to meet the needs of the present without compromising the ability of future generations to meet their own needs.

From our corporate point of view, sustainability is about managing the business to minimise any negative impact and maximise the positive impact of what we do.

As the primary energy generator of the State, we take a holistic view of energy development to ensure we balance energy security, sustainability and affordability. We are providing reliable electricity and contribute to efforts to sustain and conserve the environment by optimising the generation mix. Our generation mix is predominantly renewable hydropower, complemented by our indigenous thermal resources of gas and coal for energy diversity and security. Hydropower development in Sarawak has contributed significantly to Malaysia's target in reducing carbon emission per the Paris COP 21 agreement with a 74% reduction in carbon emission intensity from our operations from 2010.

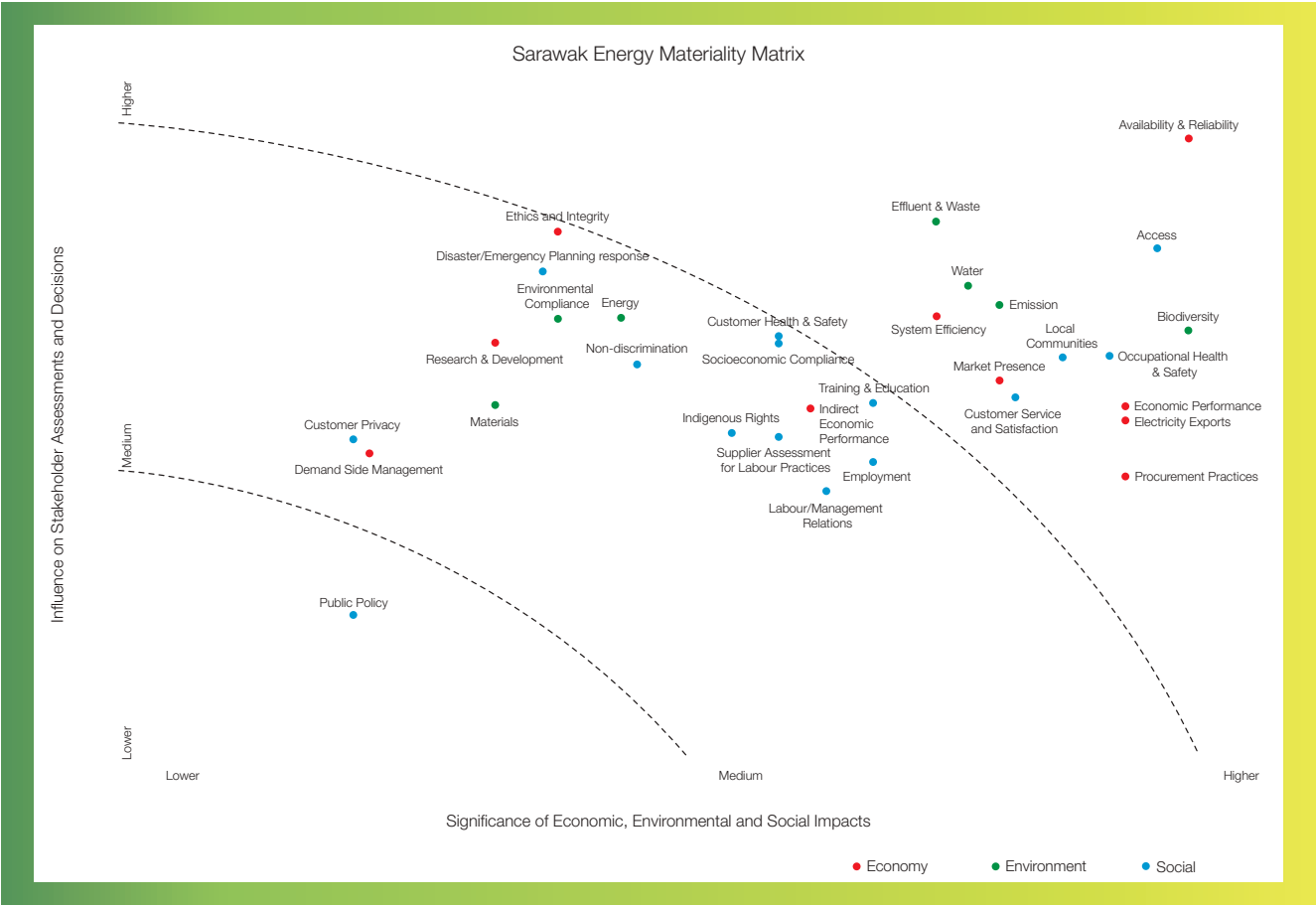
Sustainability in our Business

Materiality

Our strategic process starts with the identification of areas and subjects that are important to us. We do this through thorough evaluation of our operations and analyses of the impact of our operations on the external environments, including socio-economic and the potential to create value for our stakeholders.

To realize our ambition in becoming a sustainability leader in the electricity supply industry within the region, we also align our strategies with and provide disclosures on relevant topics to measure our contribution towards the United Nations Sustainable Development Goals or SDGs.

GCEO's Overview



In 2017, we identified 32 key issues under the Economic, Social and Environment pillars, prioritised by the level of importance to the Company and our stakeholders.

Based on analysis and stakeholder feedback, we concentrated on four topical issues affecting three key stakeholder groups.



Our responsibility, however, goes beyond these three groups. Ultimately, we have a responsibility towards all stakeholders and our business success depends on how we can continue to create value for the stakeholders.

Renewable energy from hydropower offers a hedge against volatile energy prices and external risks such as fuel supply and security. Globally, the trends are expanding toward the opportunities of hydro, solar and wind power in efforts to reduce Greenhouse Gas (GHG) emissions and mitigate the impact of climate change.

In our journey to become a leader in sustainable hydropower generation, we have established an internal Hydropower Sustainability Assessment team trained to assess our performance in developing hydropower projects against international best practices as guided by the Hydropower Sustainability Assessment Protocol (HSAP) which is governed by International Hydropower Association (IHA). The internal assessment exercise will lead to continuous improvement towards international best practices in the way we develop our hydropower projects.

GCEO's Overview

We also work with government agencies, non-governmental organisations and local communities where we have continued with our biodiversity conservation under the Heart of Borneo and catchment management programme, to preserve the high level of biodiversity in the existing and proposed hydropower catchment areas.

To address employee concerns, ethical practices and operational efficiencies, the Company implements policies and conducts relevant programmes. For the community, particularly project-affected indigenous communities, initiatives and activities such as providing better facilities for communal activities and educational programmes for the young are on-going.

As we work towards full electrification, Sarawak Energy is utilising standalone renewable solar and micro-hydro systems to light up remote communities via the Sarawak Alternative Renewable Electricity Scheme or SARES. Together with Ministry of Utilities, local councils and communities, we were able to achieve 90% rural electrification rate in 2017 through this and other initiatives.

We conduct programmes with local communities and power community growth through education and literacy programmes. We contribute towards an annual revolving fund of RM200,000 through the Bakun Charitable Trust for Penan communities in Belaga, including those who have been resettled in Murum. We also provide skills and technical training for youth from the Baleh and Baram communities to enhance sustainable livelihood opportunities.

Governance and Transparency

Ensuring Proper Check and Balance

The processes involved in the formulation and implementation of policies and strategies are guided by the Company's Corporate Governance Policy, thus the accountability and governance of our sustainability activities lie with the Board of Directors and Group Executive Committee.

The Board of Directors of Sarawak Energy is committed to ensure the highest standard of Corporate Governance, and this is practiced throughout the Group with the objective of strengthening the Group's growth, corporate accountability and in safeguarding the interests of the shareholders, by applying the principles of good governance and compliance with the best practices as set out in the Malaysian Code on Corporate Governance.

THE UN Sustainable Development Goals



We have prioritised the following key SDGs to maximise our positive impact in business operations and minimise the negative impacts on environment and communities that we are operating in.

7 AFFORDABLE AND CLEAN ENERGY



SDG #7

Ensure access to affordable, reliable, sustainable and modern energy for all

SDG #7 Target

Ensure universal access to affordable, reliable and modern energy services. In addition, to substantially increase the share of renewable energy in the global energy mix.

Sarawak Energy sustainability disclosures that contribute to SDG #7:

Sarawak Electricity coverage has increased by

^14%
since 2011

Renewable energy in our generation mix has increased by

^62%
since 2011

Hydropower Average Availability Factor

> 92%
in 2017

CO₂ Emission Intensity (Main Grid)

0.213*
tCO₂e/MWh

8 DECENT WORK AND ECONOMIC GROWTH



SDG #8

Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

SDG #8 Target

Sustain per capita economic growth and achieve higher levels of economic productivity and promoting development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity, innovation and decouple economic growth from environmental degradation.

Sarawak Energy sustainability disclosures that contribute to SDG #8:

Tender Awarded to local companies has increased by

^314%
since 2011

Our revenue has increased by

^197%
since 2011

Electricity Sales contribute

4% to State GDP
in 2017


Renewable energy generated has increased by

^1,442%
since 2011

Note:

* This main grid CO₂ emission intensity data has been assured by a third party. Read the Independent Assurance Report on pages 76 - 77

GCEO's Overview



SDG #6
Ensure availability and sustainable management of water and sanitation for all

SDG #6 Target
 To ensure access to safe and affordable drinking water. This is to be achieved via efforts to improve water quality and water use efficiency, supported by widespread use of integrated water resource management, protection of water ecosystems, and international cooperation as well as capacity building.


Sarawak Energy sustainability disclosures that contribute to SDG #6:

Baleh National Park gazetted on 21/9/2017,
 total size: **66,721 ha**

Water volume been regulated for electricity generation -
43,926* million m³

Water intake by Thermal Plants by source Municipality -
2.64* million m³

Seawater or other natural water source -
1,034.86* million m³



SDG #13 Take urgent action to combat climate change and its impacts

SDG #13 Target
 Integrate climate change measures into policies, strategies and planning

Sarawak Energy sustainability disclosures that contribute to SDG #13:

Renewable Energy Generated 19,241 GWh	Main Grid CO ₂ Emission reduced by ▼69% since 2011
---	---

Renewable Energy Generated has increased by
▲1,442% since 2011

Emission Reduction from Clean Development Mechanism Project -
408,520 tCO₂

Note:

* These annual water volume for electricity generation and total water withdrawal by source data have been assured by a third party. Read the Independent Assurance Report on pages 76 - 77.



SDG #15 Protect, restore and promote sustainable use of terrestrial ecosystems

SDG #15 Target

Conservation and sustainable use of terrestrial land and inland freshwater ecosystems.

This entails conserving biodiversity by protecting and preventing the extinction of endangered species, as well as efforts to halt poaching and trafficking of flora and fauna.

Various efforts undertaken by Sarawak Energy are geared towards the preservation of biodiversity.

- We support the Heart of Borneo Initiative which seeks to protect and conserve the biodiversity and ecology of water bodies in Sarawak
- We conduct various workshops on watershed management
- Proactive in supporting and contributing toward the development of state policy, procedures and guidelines for Integrated Catchment Management
- Conduct Environmental Sustainability Programmes to collect baseline information that guide hydropower project developments
- We have nurtured a Flora Conservation Garden in Murum

02



The background image shows a vast industrial interior. A large yellow overhead crane is suspended from a complex steel truss ceiling. The crane has labels that read "350/50t", a logo, and "2010年". Below the crane, the floor is a light-colored concrete. In the foreground, there are blue industrial machines with green piping, labeled with numbers 2, 3, and 4. The walls are white and feature a series of rectangular openings or panels. The lighting is bright and even.

Performance

Economic..... 30
Environment..... 44
Social..... 56



sarawak

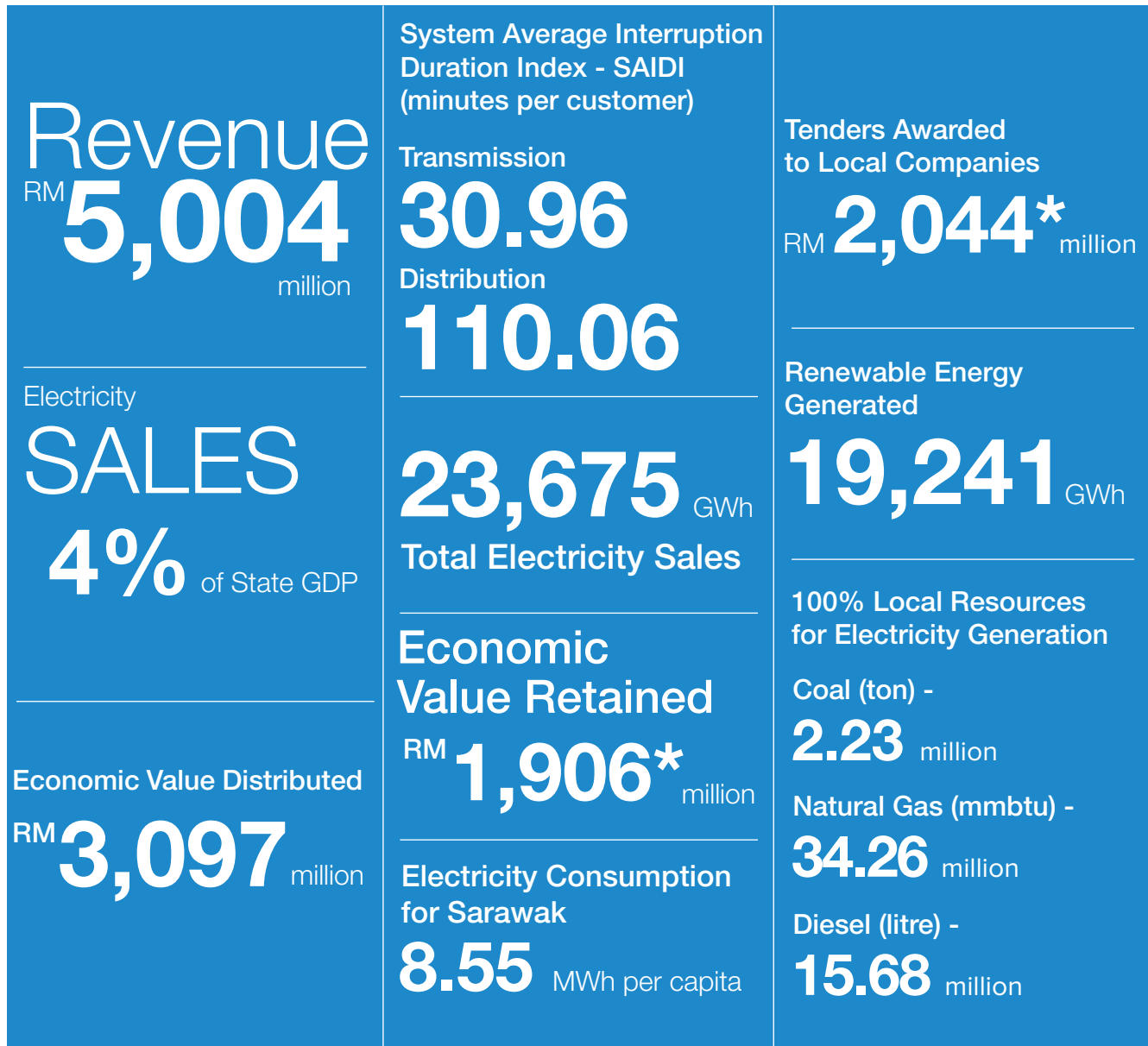
ECONOMIC

Economic sustainability is achieved through sustainable business practices and is the foundation for growth in developed, emerging and developing economies



Menara Sarawak Energy, the first green building in East Malaysia and awarded with a GBI Silver Rating.

Catalysing Economic Sustainability



Note:

* These economic value retained and total value of tenders awarded to local companies data have been assured by a third party. Read the Independent Assurance Report on pages 76 - 77.

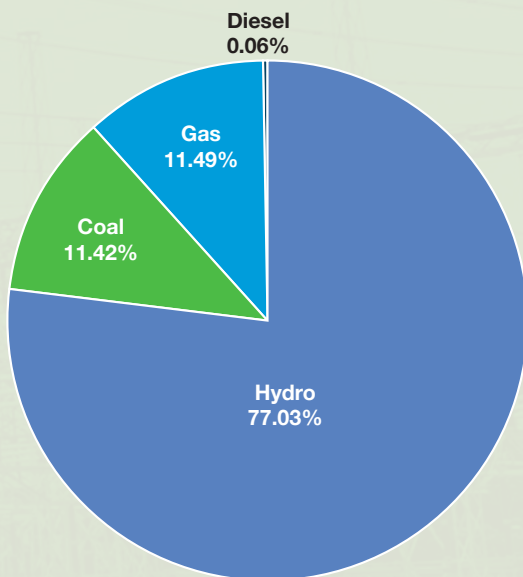
Taxes Paid
(Net of Refunds)

RM236 million

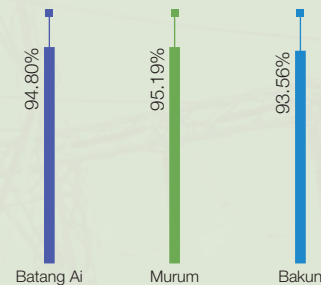
State Electricity Coverage

95%

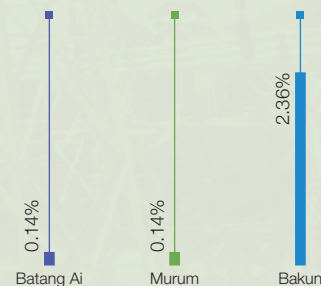
Generation Mix



Availability Factor for Hydropower Plants



Forced Outage for Hydropower Plants



103-1, 103-2, 103-3, 201-1, 203-1, 203-2, 204-1

Catalysing Economic Sustainability

Sarawak Energy contributes to the economic sustainability agenda at global, national and state levels; and the decision to shift our generation mix towards renewable energy has enabled us to contribute to the global and national agenda in terms of mitigating climate change, as well as providing access to affordable energy. The Company also adopts the Hydropower Sustainability Assessment Protocol (HSAP) to ensure that our hydropower projects are developed in a sustainable manner.

In 2017, Sarawak Energy earned RM5.00 billion in revenue, marking a significant 17.10% increase from RM4.27 billion the previous year. RM0.24 billion was channeled back to the state government in the form of tax, RM0.49 billion was paid out in wages to employees and RM0.53 billion in interest to capital providers. In addition, RM8.86 million was channeled to various charitable organisations via philanthropic activities.

The Company has maintained its AA1 / Stable credit rating from RAM Ratings for its RM15 billion Sukuk Musyarakah Programme since its first issuance in 2011. RAM also reaffirmed the AAA / Stable rating for the Sarawak Hidro RM5.54 billion Sukuk Murabahah Programme, which Sarawak Energy assumed pursuant to the acquisition of Sarawak Hidro Sdn. Bhd.

Procurement Practices

Sarawak Energy's procurement policy encourages awarding projects to local (Sarawakian) businesses as far as possible and awards are only given to international companies when the required expertise is not locally available.

Our procurement activities are conducted based on four guiding principles that will lead us towards achieving only the best for both the Company and the people of Sarawak. These principles are Best Value for Money; Open and Effective Competition; Impartiality and Transparency of Process; and Enhance Opportunity for Local Content.



Local contractors' briefing on business opportunities in Sarawak Energy.

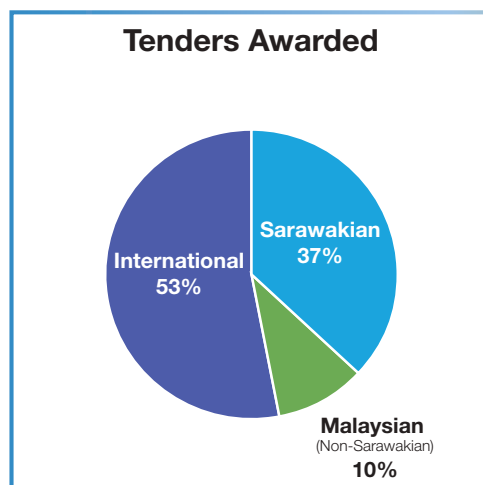
103-1, 103-2, 103-3, 203-1, 203-2, 204-1

For the year under review, 37% of the tenders were awarded to Sarawakian companies, 10% to Malaysian non-Sarawakian and 53% to international corporations.

	2016 (RM)	2017 (RM)
Sarawakian	1,022,366,550	2,044,758,107*
Malaysian (Non-Sarawakian)	221,885,631	561,445,860
International	1,652,720,100	2,951,739,356
TOTAL	2,896,972,281	5,557,943,323

In 2017, Sarawak Energy has conducted outreach programmes with Sarawakian contractors by organizing Business Opportunities briefings throughout the State in collaboration with Unit Pendaftaran Kontraktor dan Juruperunding (UPKJ), Electrical Inspectorate Unit (EIU) and the Construction Industry Development Board (CIDB). These programs are recognized by CIDB as part of their Contractor Development programme. Key highlights from these briefings include the announcement of bid bond waiver for Sarawakian tenderers, the first of its kind in the history of the Company.

2017 also saw the Company's Bumiputera Participation Division initiating briefings on Business Opportunities in Sarawak Energy for Bumiputera contractors in three different cities - Kuching, Sibu and Miri. The CIDB-recognized programs were also done in collaboration with UPKJ, EIU and CIDB. Highlights of these programs include the implementation of the first Bumiputera tender for the Company's Transmission Line Project and the execution of the contract strategy to optimise opportunities for Bumiputera contractors in SARES projects.

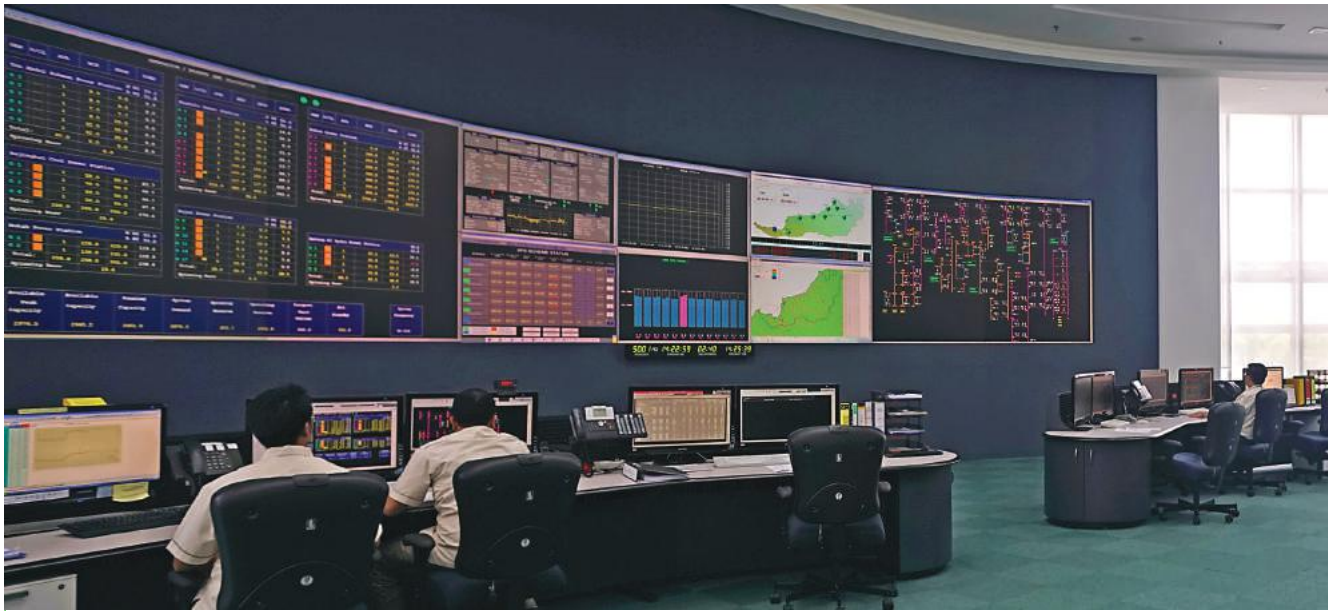


Note:

* This total value of tenders awarded to local companies data has been assured by a third party. Read the Independent Assurance Report on pages 76-77.

103-1, 103-2, 103-3, 203-1, 203-2, EU10, EU30

Catalysing Economic Sustainability



The team at Sarawak Energy works hard to ensure reliable power supply is distributed.

Operational Performance

Our economic performance significantly depends on the performance of our electricity generation, transmission and distribution.

The maximum demand on our system has increased by 10% from 3,010 MW in 2016 to 3,302 MW in 2017 and projected to increase by 40% to 4,616 MW in 2022.

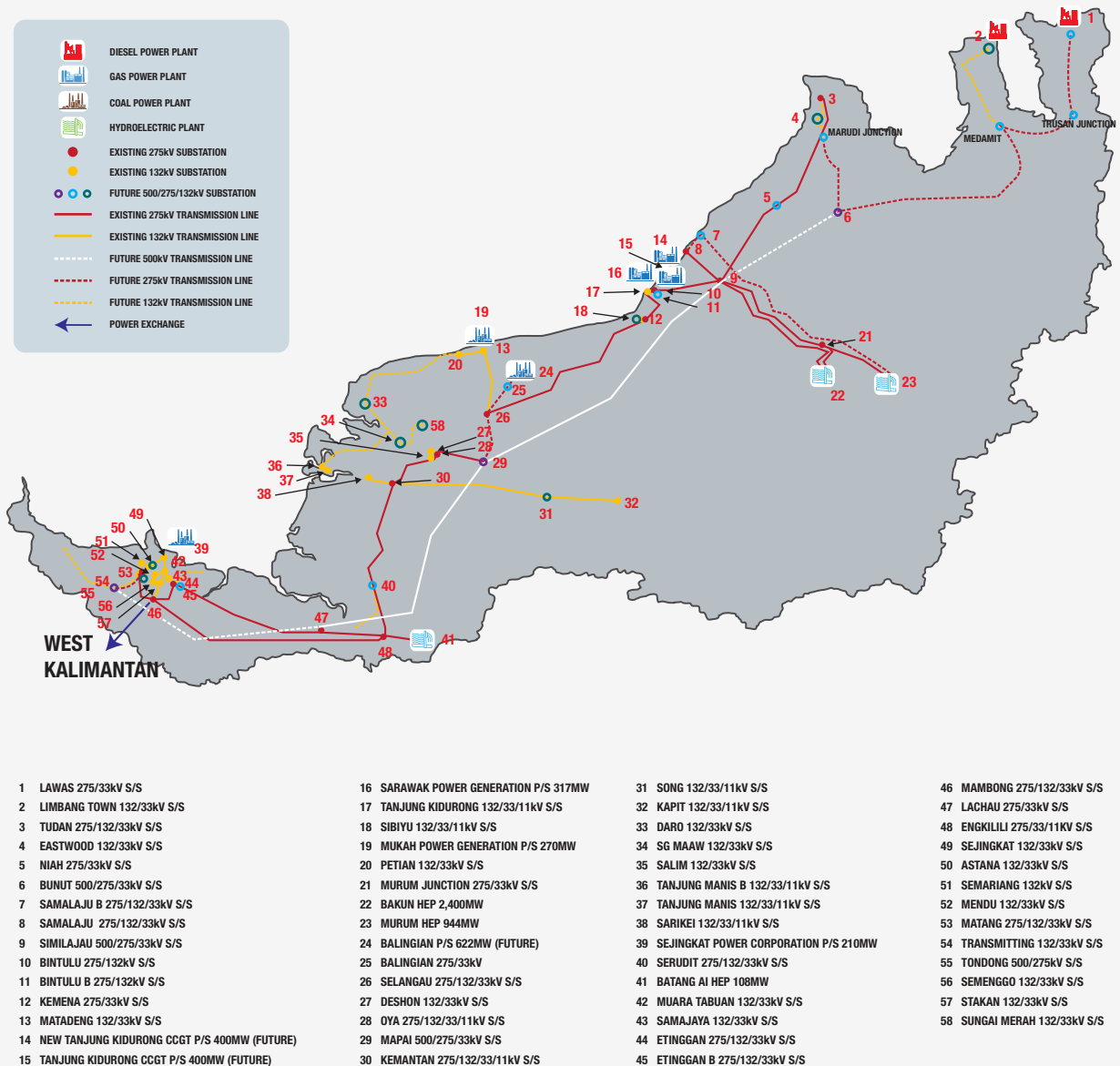
In addition, a total of 2,648 MW has been committed to energy intensive industries and export customers via Power Purchase Agreements (PPA) and Power Exchange Agreements (PEA).

Availability and Reliability

We continue to maintain high availability factor with an average of 94.51% and an average forced outage rate of 0.88% for all our hydropower plants.

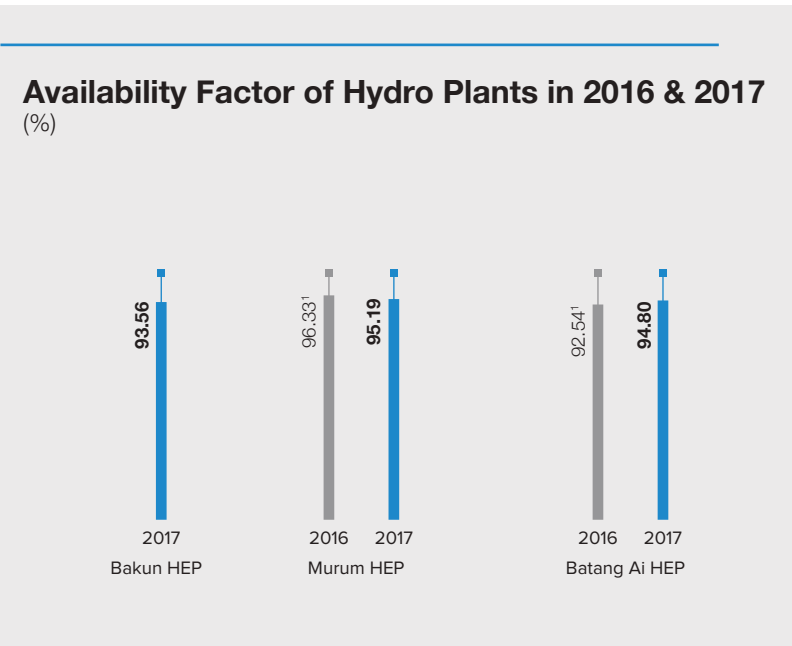
103-1, 103-3, 203-1, 203-2, EU10

Sarawak Energy Grid Electricity System



Catalysing Economic Sustainability

During the year under review, we achieved an availability factor of 94.8% with a recorded forced outage of 0.14% for the 30-year old Batang Ai HEP while the Murum HEP recorded an availability factor of 95.19% with a forced outage of 0.14%. For the newly commissioned Bakun HEP, the availability factor stood at 93.56% with a forced outage rate of 2.36%. Meanwhile, the efficiency of our thermal plants remained at above 30%.



With total sales increasing from 20,627GWh to 23,675GWh, the performance of our plants has enabled us to meet increased electricity demand for the year and we will continue to meet the State's growing demand moving forward.

Ensuring Electricity Supply

As an energy utility, Sarawak Energy adopts both long-term and short-term practices to ensure the availability and reliability of electricity supply.

We are required to meet all the criteria set for generation capacity planning as stated within the State Grid Code, which addresses key elements such as reserve margin, Loss of Load Probability (LOLP) and Expected Energy Not Served (EENS).

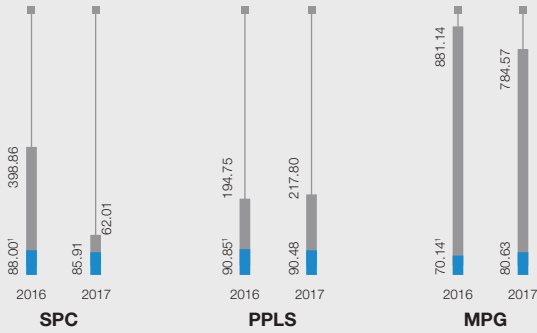
In order to maintain the N-1 reliability requirement, the Company functions in accordance to the Transmission Network Development plan, which is needed to provide adequate transmission security and capacity for future system load growth for organic customers. It is also essential for the energy intensive loads in the SCORE region and power export to neighbouring countries, as well as to provide the injection point for integrating future, new and large generation.

Note:

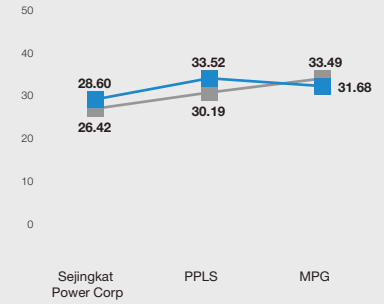
¹ These availability factor (hydro power plants) data has been assured by a third party for Sustainability Report 2016.

103-3, 203-1, 203-2, EU11, EU30

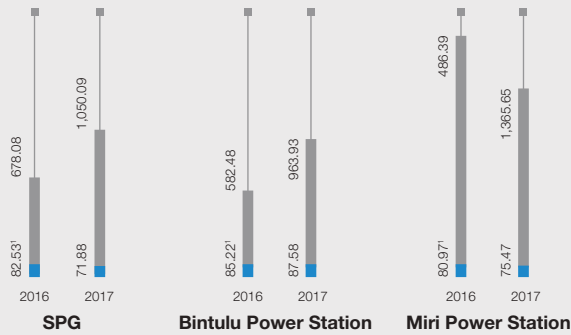
Equivalent Availability & Forced Outage for Coal Plants in 2016 & 2017



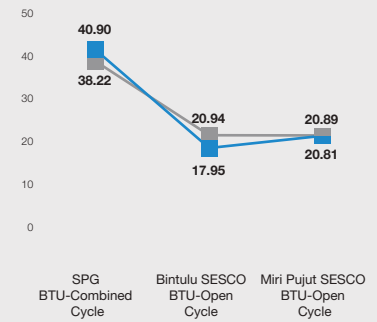
Efficiency of Coal Plants² (%)



Equivalent Availability & Forced Outage for Natural Gas Plants in 2016 & 2017



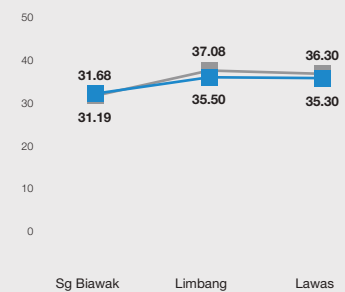
Efficiency of Natural Gas Plants² (%): Open Cycle & Combined Cycle



Equivalent Availability & Forced Outage for Diesel Plants in 2016 & 2017



Efficiency of Diesel Plants² (%)



■ Equivalent Availability Factor (%) ■ Forced Outage (hours)

■ 2016 ■ 2017

Notes:

¹ This equivalent availability factor (thermal power plants) data has been assured by a third party for Sustainability Report 2016.

² Total average energy efficiency for Sarawak Energy thermal power plants connected to Main and Northern Grids.

Catalysing Economic Sustainability

Transmission and Distribution Losses

Technical loss is due to power dissipation in system components such as transmission and distribution lines, transformers, and measurement systems. The accounted technical loss for distribution was for 6.33% and for transmission, 1.99%. The total technical loss was 8.32%.

Non-technical loss is due to electricity theft, non-payment by customers and errors in accounting and record-keeping which was 3.80% for distribution.

Enhancing Service Quality

Service delivery is measured by the continuity of supply, and the reconnection time for customers whose power had been disconnected due to late payment (for Kuching region only).

During the year under review, 15,783 overdue accounts in the Kuching area, which amounted to RM36.34 million, were disconnected. Out of these, 11,473 accounts were reconnected upon settlement of their respective outstanding bills amounting to RM8.90 million. Of the reconnections, 70.50% were completed within 24 hours of settlement of payment.

However, with better asset management we were able to decrease the duration of interruptions in supply as measured by our System Average Interruption Duration Index (SAIDI) and System Average Interruption Frequency Index (SAIFI) for the year.

Length of Time between Disconnection and Arrangement of Payment

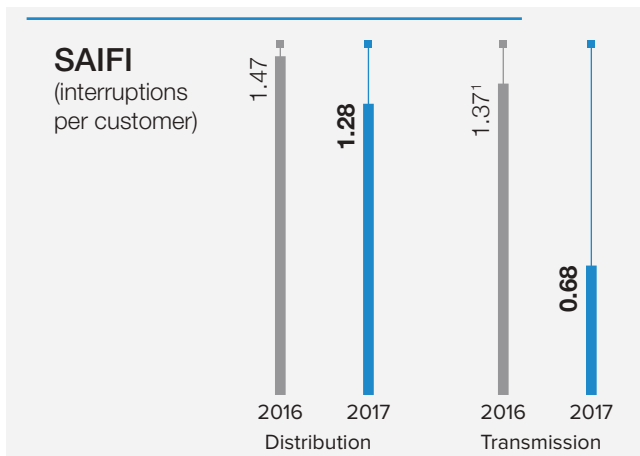
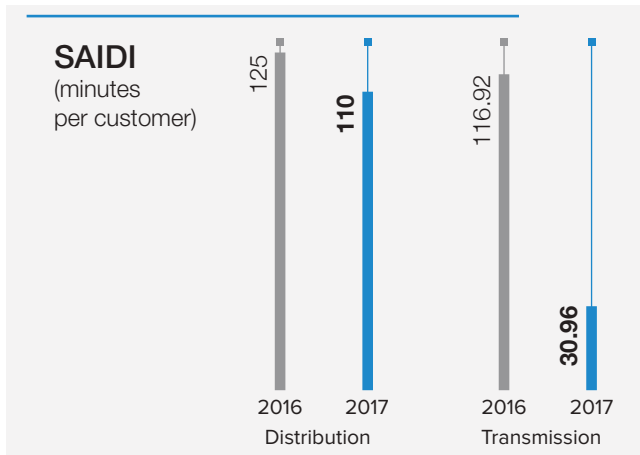
<48 Hours	48 Hours – 1 Week	1 Week – 1 Month	1 Month – 1 Year	>1 Year
10,987	358	120	8	0

Time Taken to Restore Electricity After Payment

<24 Hours	24 Hours – 1 Week	>1 Week
8,089	2,256	1,128

Description	SAIDI (minutes per customer)	SAIFI (interruptions per customer)
Distribution	110	1.28

103-2, 103-3, 203-1, 203-2, EU28, EU29



Notes:

¹ Different method of calculation being adopted.

Asset Management

Sarawak Energy has developed an Operations Asset Management Policy that complies with the BSI PAS 55:2008 Management of Infrastructure Assets and ISO 55000 Asset Management standards. It defines the key principles and requirements that are to be applied in our work processes to ensure our assets are managed in line with our corporate strategies. It consists of the following eight aspects:



Catalysing Economic Sustainability

Enhancing Efficiency and Reliability

i. Mobile Field Force Automation (MFFA)

MFFA is a real time system that monitors and tracks the response time of technical field crews when attending to customer complaints relating to outage and malfunctioning of street lighting. As of 2017, the system has been successfully deployed in seven stations – Kuching, Sibul, Miri, Sri Aman, Sarikei, Bintulu and Limbang.

ii. Remote Monitoring System (RMS)

This existing system has extended to 140 Telemetry Points covering 40 RMU substations at the end of 2017.

iii. Enterprise Asset Management (EAM) System

We are in the midst of implementing an Enterprise Asset Management (EAM) System for our Transmission and Distribution users, which is targeted to go live by the fourth-quarter of 2018. Aimed at supporting and improving the Company's asset management, the system will incorporate leading practices from the power utility industry and will be integrated with our existing SAP system to enhance visibility and quality of information and help achieve better performance, increased reliability and further cost reductions.

iv. Geographical Information System (GIS)

We will also be implementing a new Geographical Information System (GIS) to capture, store and manage information of the spatial network connectivity of our assets; as well as perform power system analysis including outage simulation.

Putting Customers First

The year under review saw an increase in the Company's Customer Satisfaction Index (CSI), which was recorded at 80.57% compared to the 77.42% reported in 2016. This is a result of our Retail and Distribution departments' ongoing efforts to improve customer service.



At Sarawak Energy, we believe in putting our customers first.

In March, 15 units of payment kiosks were installed at major counters across the region including those at Urban Transformation Centres (UTCs). Customers can now view their latest energy bills and make payment by cash, cheque and credit / debit cards.

The following month (April) saw Sarawak Energy boosting their presence by reaching out to customers through radio interviews and advertisements via its SEB cares mobile app. The app now also allows customers to calculate their own bill for consumption planning.

Business Continuity Management

A Business Continuity Management (BCM) Framework was established in 2016 to build organisational resilience for preparedness and effective response in times of disasters, particularly to maintain and ensure the continuity of the Company's services in order to minimise the impact on customers in the event of a service disruption. Three Crisis Simulation Exercises and one Desktop Walkthrough Exercise were conducted in the year under review with the aim of taking participants through the response and recovery procedures documented in the framework. The exercises benefitted members of the Crisis Communications Team, Corporate Communication & BCM Secretariat and Batang Ai HEP, Murum HEP and Miri Regional Office.



One of the Crisis Simulation Exercises involving members of the Group Crisis Communications Team, Corporate Communication & BCM Secretariat at Menara Sarawak Energy.



Murum HEP team taken through the response and recovery procedures documented in the BCM Framework.

An aerial photograph of a large, calm reservoir or lake. The water is a deep blue-green color. Numerous rectangular floating solar panels are arranged in rows across the water's surface. The surrounding landscape is lush and green, with dense forests covering the hills and mountains in the background. The sky is overcast with grey clouds. In the foreground, a paved road with a white dashed line runs along the edge of the forest. A semi-transparent blue rectangular box is overlaid on the lower right portion of the image, containing the word 'ENVIRONMENT' in large white capital letters and a paragraph of text below it.

ENVIRONMENT

Managing our environmental footprint is a key component of our business strategy and an integral part of our vision to achieve sustainable growth for Sarawak by meeting the region's need for reliable, renewable energy

Batang Ai HEP reservoir serves as a mode of transportation, ecotourism and aquaculture for the local community.



103-3, 301-1, 304-1, 304-2, 305-1, 305-4, 305-5, 305-7

Our Commitment to Improving Our Environmental Footprint

0.213*

tCO₂eq/MWh

EMISSION
INTENSITY,
MAIN GRID

408,520

tCO₂

Total CO₂
Reductions

Total Volume of CO₂
Emission

5.33 million (tCO₂)

Sarawak Energy Main
Grid CO₂ Emission
Intensity 2011-2017 -
reduced by

69.48%

Renewable Energy Generated

19,241 GWh

Increase of Renewable Energy
in Generation Mix since 2011

1,441.75%

Thermal - Water Withdrawn
(Cooling Process)

1,037.50* million m³

Hydro - Water for Power
Generation

43,925.58* million m³

Emission Intensity (Main Grid)

SO_x - 1.49X10⁻⁴ kg/kWh

NO_x - 7.58X10⁻⁵ kg/kWh

Northern Grid CO₂
Emission Intensity

0.678* tCO₂eq/MWh

Stand-alone grid CO₂
emission intensity

0.893 tCO₂eq/MWh

Note:

* These main grid CO₂ emission intensity, northern grid CO₂ emission intensity, total water withdrawn by source and annual water volume for electricity generation data have been assured by a third party. Read the Independent Assurance Report on pages 76 - 77.

Managing Our Environmental Footprint, Materials and Water Resources

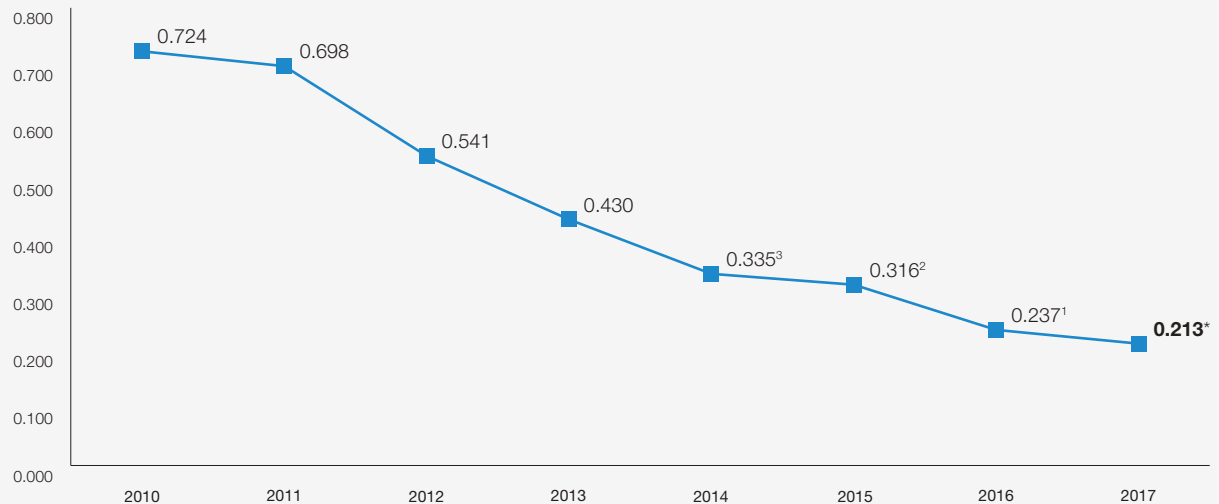
Caring for the environment is a key component of our business strategy and an integral part of the vision to achieve sustainable growth for the State by meeting the region's need for reliable, renewable energy.

Grid Carbon Footprint and Emission Intensity

Sarawak Energy's main grid has the lowest carbon footprint among power utility companies in the region at 0.213^{*}tCO₂eq/MWh as 77% of our energy is generated using hydropower. Nevertheless, we continuously strive to further minimise our carbon footprint in our operations by increasing our share of renewable energy, retiring old and small power plants and introducing more efficient technologies.

Sarawak Energy Main Grid CO₂ Emission Intensity 2010 - 2017

(tCO₂eq/MWh)



Notes:

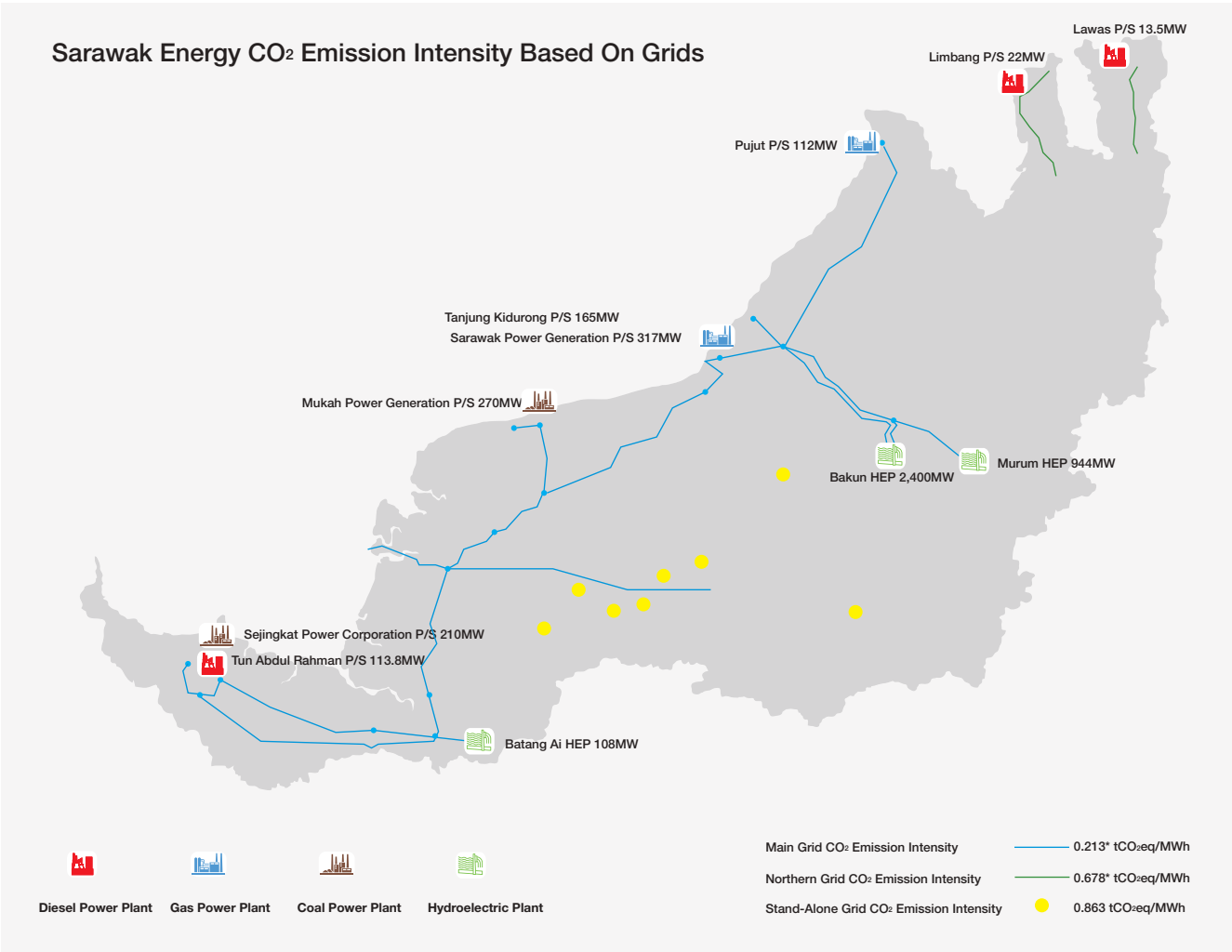
¹ This main grid CO₂ emission intensity data has been assured by a third party for Sustainability Report 2016.

² This main grid CO₂ emission intensity data has been assured by a third party for Sustainability Report 2015.

³ This main grid CO₂ emission intensity data has been assured by a third party for Sustainability Report 2014.

^{*} This main grid CO₂ emission intensity data has been assured by a third party. Read the Independent Assurance Report on pages 76 - 77.

Our Commitment to Improving Our Environmental Footprint



In 2017, the Company was responsible for generating a total of 24,978,052.21 MWh of energy in the main grid, which translates into 5,325,836.68 tonnes of CO₂ emissions according to the 2006 Intergovernmental Panel on Climate Change (IPCC) guidelines.

Notes:

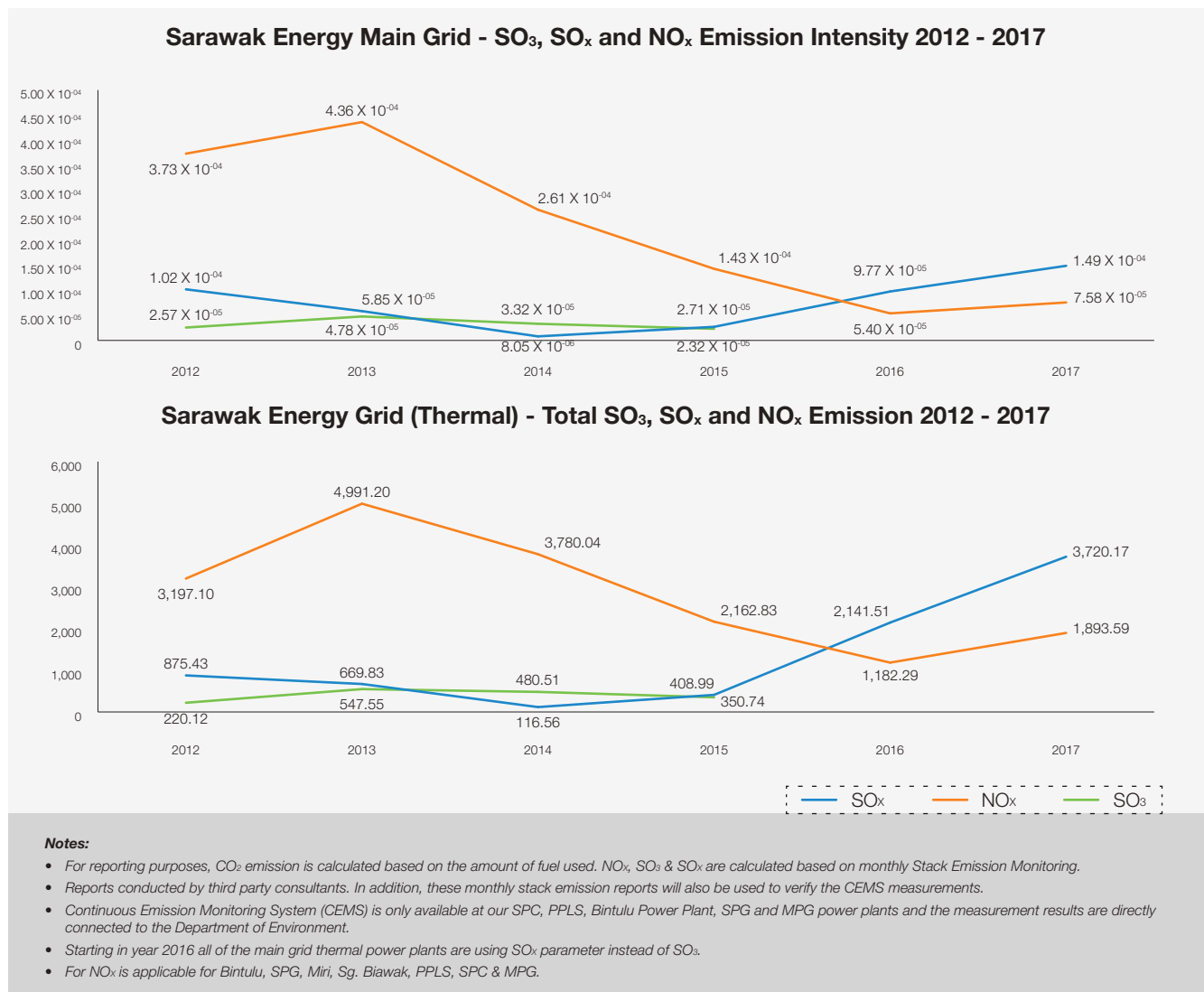
* These main grid CO₂ emission intensity and northern grid CO₂ emission intensity data have been assured by a third party. Read the Independent Assurance Report on pages 76 - 77.

103-1, 103-2, 103-3, 301-1, 304-1, 304-2, 305-1, 305-4, 305-5, 305-7

The year under review also saw the Company successfully reduce CO₂ emissions by 408,520 tonnes. The CO₂ emissions reduction is lower compared to the 615,130 tonnes reduction achieved in 2016.

Environmental Footprint

Apart from reducing CO₂ emissions, it is also Sarawak Energy's responsibility to manage the emissions of other gases such as sulphur and nitrous oxides that are emitted through the operations at our plants. These emissions remain within acceptable levels in accordance to the Environmental Quality Act.



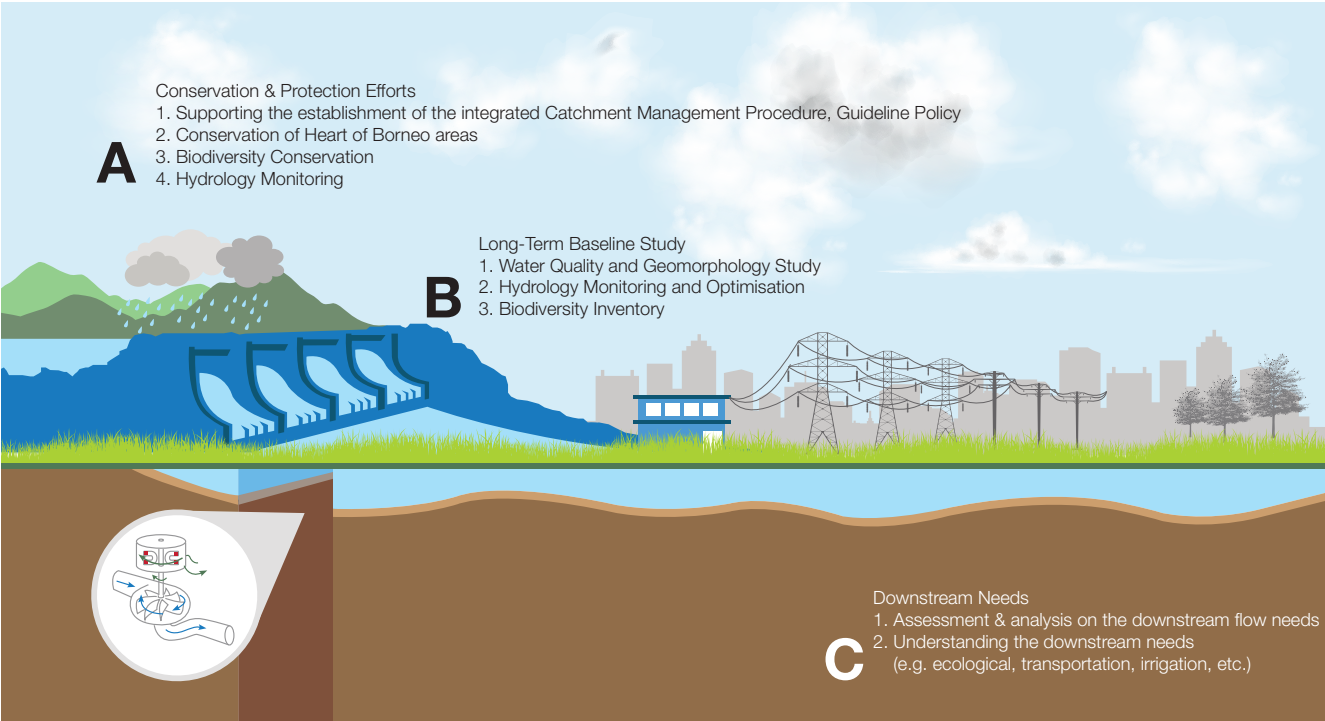
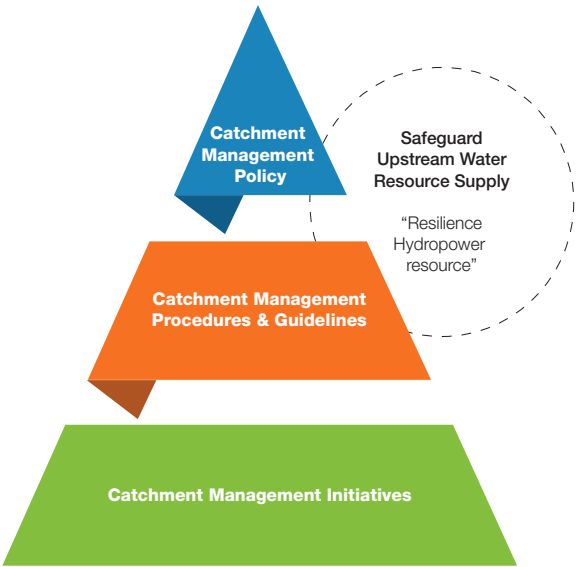
Our Commitment to Improving Our Environmental Footprint

The Company is also mindful in reducing the use of natural resources such as hydrocarbon fuels – coal, diesel, and natural gas – which emit CO₂ in the process of energy generation.

Water Resource

Water is a clean source of energy, which we use in our hydro plants and as cooling agents in our thermal plants. We acknowledge that it is a precious and limited resource used daily by the local communities. As such, not only do we measure our water consumption but also ensure the conservation of it, which we do through Integrated Catchment Management.

Sarawak Energy’s broad objectives for this covers the following:



A Reservoir Management Plan is in place to ensure that our operations do not negatively impact the security of our own water supply, as well as that of our local communities. It monitors hydrometric data such as rainfall, river water levels, inflow of water into our hydro plants and sediment concentration from our 23 hydrometric stations.

The Company is also collaborating with the Department of Irrigation and Drainage Sarawak on a programme to set up more stations at river basins in the State with the objective of collecting and providing quality data that will contribute to the sustainable use and development of water resources.

Water Inflow to Our Reservoirs

Hydroelectric Plant	Annual Inflow (million m ³)	Annual Water Volume for Energy Generation (million m ³)	Annual Energy Generated (GWh)
Batang Ai	3,658.00	3,396.73*	442.32
Murum	10,933.00	7,503.32 (7,567.19* incl. EPS)	5,717.39
Bakun	49,794.00	32,961.65*	13,078.27

Consumption of water by our hydro plants combined with the controlled release of water into natural water bodies help regulate water levels in the State and thus, prevent floods and improve resilience to climate change.

Total Water Withdrawal by Source

Plant Type	Major Plants	Source	Total (m ³)
Coal	Sejingkat Power Corp + PPLS	Municipal	1,603,264.00*
		Sea Water or other natural water sources	366,695,496.00*
Coal	Mukah Power Generation	Municipal	854,666.00*
		Sea Water or other natural water sources	454,118,400.00*
Combined Cycle – Natural Gas	SPG + Bintulu SESCO	Municipal	145,623.00*
		Sea Water or other natural water sources	212,876,380.80*
Open Cycle – Natural Gas	Miri SESCO	Municipal	12,154.00*
		Sea Water or other natural water sources	Not applicable
Diesel	Sg. Biawak SESCO	Municipal	21,192.00*
		Sea Water or other natural water sources	1,171,360.00*
Diesel	Non Grid - Limbang	Municipal	19.44
Diesel	Non Grid - Lawas	Municipal	299.00

Note:

* These total water withdrawn by source and annual water volume for electricity generation data have been assured by a third party. Read the Independent Assurance Report on pages 76 - 77.

Our Commitment to Improving Our Environmental Footprint

World Wetland Day 2017

In February, Sarawak Energy collaborated with the Sarawak Forestry Department to promote World Wetland Day at Kampung Masjid, Kuala Baram in Miri with the objective of engaging and encouraging environmental stewardship amongst the youth. Officiated by the Assistant Minister for Environment of Sarawak YB Datu Haji Len Talif Salleh, the two-day event saw participation from 350 people including the Miri City Council Deputy Mayor, representatives from Land & Survey Department and Natural Resources and Environment Board (NREB), teachers and students of SK Pujut Corner Miri and SK Kuala Baram 1 & 2 as well as staff of Sarawak Energy and Sarawak Forestry Department.

ENVIRORIDE 2017

Sarawak Energy and the Department of Environment (DOE) jointly organised a cycling event called “EnviroRide” in conjunction with the state-level National Environment Day on October 21st, which saw some 300 cyclists cover a distance of 30 kilometres around the city. The event was aimed at building a commitment towards caring for the environment and promoting cycling as an environment-friendly alternative mode of transportation. It also served as an opportunity to foster relations and enhance cooperation between the government and corporate sector towards the common vision of conserving and rehabilitating the environment.



Promoting environmental awareness among school children through World Wetland Day.



Riders of EnviroRide 2017 taking off at starting point.

Murum Flora Conservation Garden

Murum Reservoir

In 2013, Sarawak Energy went green and embarked on The Murum Flora Conservation Garden project, which is aimed at conserving, protecting and showcasing Murum's rich biodiversity. The two-acre garden serves as a tourist attraction and more importantly, as a haven for educationists and researchers. General maintenance and assessment of growth and survival rates of the garden's plants are carried out by the Company's EIA team on periodical basis.



The Murum Flora Conservation Garden entrance.



One of the orchid flowers planted at the garden.

ENVIRONMENTAL MANAGEMENT AND CONSERVATION

Turtle Conservation at Tanjung Datu National Park and Talang-Satang Island

In March, Sarawak Energy formalised a partnership with the Sarawak Forestry Corporation (SFC) through a memorandum of understanding (MoU) that stipulates the conservation of turtles and promotion of ecotourism at the respective turtle landing sites. The MoU was signed in the presence of the Chief Minister of Sarawak Datuk Amar Abang Johari Tun Datuk Abang Openg to confirm the Company's intent to provide the sanctuaries with green energy using centralised solar systems.



Sarawak Energy and Sarawak Forestry Corporation join hands for turtle conservation and ecotourism.

Our Commitment to Improving Our Environmental Footprint

‘Gotong-Royong’ to Clear Logs at Batang Ai

Each year, Sarawak Energy supports the clearing of floating logs at Ulu Delok, Batang Ai which is aimed at ensuring safety of the river. It was a good opportunity to foster good relations with the local communities, as well as with relevant government departments.

HYDRO ENVIRONMENTAL SCIENCE RESEARCH PROGRAMMES

Greenhouse Gases (GHG) Research – Sarawak Hydropower Reservoirs

Sarawak Energy continued its collaboration with Université du Québec à Montréal (UQAM), Canada to assess the State’s hydropower reservoirs by embarking on the second phase of the Greenhouse Gas Field monitoring campaigns, which monitors the status of the Company’s reservoirs’ greenhouse gases. The research study aims to enhance understanding on biogeochemical processes underlying the GHG phenomena that occurs at the reservoirs. Research findings will assist Sarawak Energy to seek the necessary mitigation measures to minimise its environmental footprint, as well as promote sustainable development of its hydropower projects.



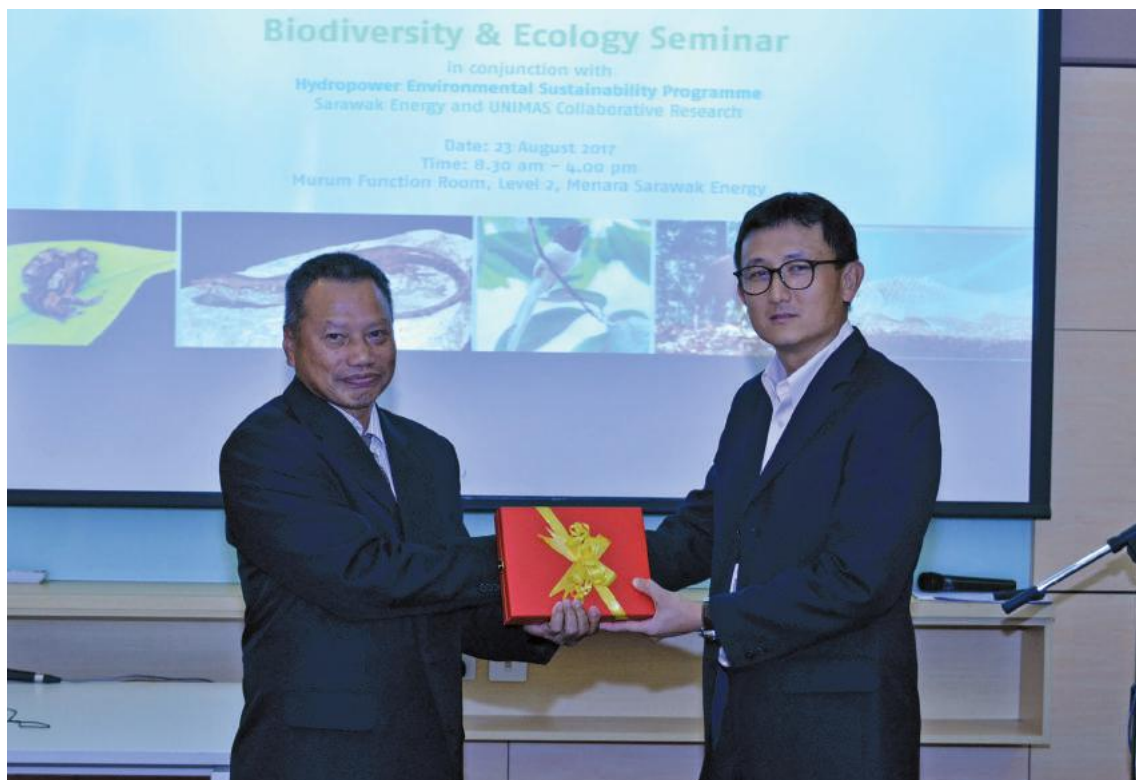
Keynote address by UNIMAS Professor Dr. Lee Nyanti on Aquatic Ecology.

103-1, 103-2, 103-3, (Former EU8)

Hydropower Environmental Sustainability Programme

In 2013, Sarawak Energy signed a collaboration agreement with University Malaysia Sarawak (UNIMAS) to carry out a three-year research on Hydropower Environmental Sustainability Programme (HESP). The programme further strengthens and supports the Company's intention of developing sustainable hydropower projects that are aligned with the International Hydropower Association's Hydropower Sustainability Assessment Protocol.

On August 23rd, the UNIMAS researchers gathered and shared their findings and experiences on the agreed aspects / scope – Aquatic Ecology & Biodiversity and Terrestrial Ecology & Biology – with Sarawak Energy at a seminar on Biodiversity and Ecology that saw participation from 80 people from both parties. The Company gained human capital development through the programme, through financial support of 88 undergraduate students, 24 Masters' students and 4 PhD candidates in various fields of study.



Research collaboration with University Malaysia Sarawak on Hydropower Environmental Sustainability Programme.

A photograph of two young girls with dark hair and bangs, laughing heartily. The girl on the left is wearing a yellow shawl over a pink dress with a ruffled collar. The girl on the right is wearing a blue and white patterned sarong. They are standing in front of a blurred green background of foliage. A semi-transparent blue rectangle is overlaid on the bottom left of the image, containing the text 'SOCIAL' and a paragraph about Sarawak Energy's social commitment.

SOCIAL

As part of Sarawak Energy's social commitment, we give back to the communities that are directly impacted by our development projects



102-8, 103-3, 203-1, 401-1, 403-2, EU26

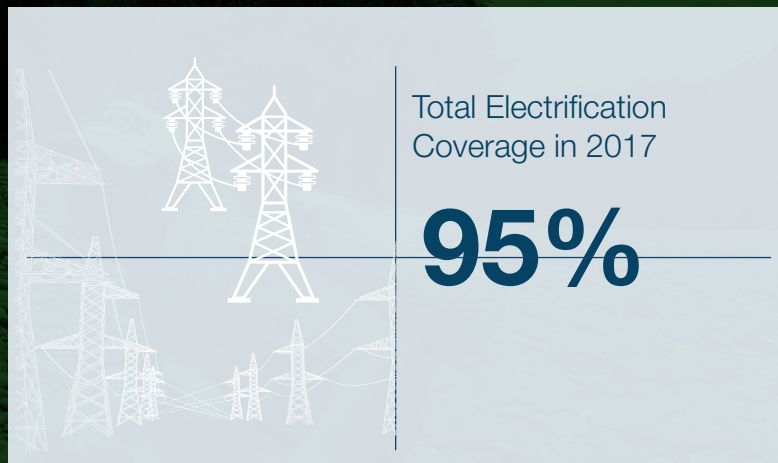
Labour Practices and Decent Work

Total Training Hours

101,437.50 Hours

Total Number of Staff

4,950



Electricity Tariff - One of the Cheapest in Southeast Asia

Lost time injury frequency rate
(Operation)

0.51



Lost time injury frequency rate
(Project Execution)

0.09



New Staff Hires

348

CSR Spending

RM8.86 million

As an energy utility company, safety is a non-negotiable priority and an integral part of our culture. We are committed to prevent work-related accidents, injuries and illnesses of our employees, contractors and others.

We have Safety and Health Committees across the organisation including our 10 regional offices and nine power stations. Each committee is made out of a chairman, a secretary, as well as employer and employee representatives. Their roles include:

- Assisting in the development of safety and health programmes
- Reviewing the effectiveness of these safety and health programmes
- Reviewing and reporting of incidents – accidents, near-misses, dangerous occurrences, occupational poisoning or disease at the workplace – and make recommendations for corrective action
- Reviewing safety and health policies at the workplace and if necessary, make recommendations for any revision of the policies
- Inspecting the workplace
- Investigating any accidents

Every quarter, meetings are held with Health, Safety, Security and Environment (HSSE) Department at headquarters, and with Corporate Environment & Occupational, Safety & Health Committee representatives at main power stations and regions. These two supporting teams provide advice and support, as well as review annual health, safety and environment activities and performance. There is also a Corporate Safety Council that looks into major issues; HSE programmes; KPIs of all chairmen and secretaries of the committees – all with the aim of raising the safety culture in line with the Company's safety theme of "Raising Standards, Saving Lives, Nurturing Culture".

Safety Performance

Lost Time Injury Frequency Rate (LTIFR) is an international safety standard that measures absence from work due to work-related injury or illness. At Sarawak Energy, LTIFR is measured in two categories – Operations, which covers retail, distribution, thermal, hydropower; and Project Execution, for any ongoing projects. In 2017, the number of incidences for Operations exceeded the year's baseline score of 0.50 with eight cases reported. However, only one was reported for Project Execution. Therefore, total lost of workdays across both categories for the year stood at 9.

Safety Activities

In our commitment to maintaining good safety practices and minimising injuries, the Company introduced the Sarawak Energy Life Saving Rules (SELSR), which is a set of mandatory rules for all employees, SEB subsidiaries and contractors to comply to whenever on the premises or even when carrying out an Sarawak Energy related business outside.

Officially launched in March at headquarters with roll-outs at region, power stations and project sites throughout June and July, SELSR is in line with one of the Company's missions to "ensure our own safety and the safety of others with a commitment to do no harm to anyone at any time." It is aimed at improving Sarawak Energy's safety performance as a whole, ensuring that high-risk work is carried out safely with zero accidents.

It is hoped that SELSR can drive a proactive HSE culture amongst both employees and contractors so they would be responsible enough to ensure their own safety and that of those around them.

Labour Practices and Decent Work

Contractors Transformation Programme (CTP)

Sarawak Energy introduced a platform called the Contractors Transformation Programme, following the Department of Safety & Health (DOSH)'s call for all Government Linked Companies to lead their contractors towards practicing self-regulation in the area of HSE, which is also in line with the National OSH Master Plan 2015-2020.

The objective of this initiative is to inculcate a culture of partnership between Sarawak Energy and its contractors, as well as a sense of belonging to the Company by working together towards accident prevention, regulatory compliance and best practices. It allows both parties to continuously improve by identifying gaps and establish remedial measures to correct any (identified) deficiencies. It also serves as a platform for Sarawak Energy to give recognition to its contractors for their efforts in contributing towards HSE Excellence.

Determined by the Contract Owner of Distribution Procurement & Contract, the first batch of the programme saw the Company engaging with six selected contractors on May 12th and the second with five others on August 21st.

Sarawak Energy has implemented several initiatives to ensure that safety is embedded in our DNA and that of our contractors. These include engaging with all contractors and stakeholders working within or outside SEB premises; conducting HSE audits on the contractors; having quarterly HSE meetings with the contractors; implementation of Sarawak Energy Safety Passport System and enforcement of Sarawak Energy Life-Saving Rules.

In addition, Sarawak Energy continues to maintain the following existing HSE programmes:

- Quarterly EOSH Committee meetings
- Annual HSE audit and inspection at all regions and power stations in both urban and rural areas
- Project HSE inspections at all project sites
- Health inspections at all regions and power stations
- Health Wellness Programme

- Noise monitoring, audiometric testing and health talks
- HSE training and development
- Quarterly mass Toolbox Talk, with weekly Toolbox Talk programmes
- Dialogue session with all contractors
- Inculcate safety culture at all regions and main power stations through HSE Week campaigns
- Conduct electrical awareness talks at schools, long houses, oil palm plantations, public utilities companies, government agencies, rural electrification scheme (RES) communities and Pan Borneo project stakeholders
- HSE promotion at all regions and power plants involving SEB staff, contractors, government agencies and members of the public

Each regional office and power station has its own safety and health statistic performance and our HSSE Department has created a Main Safety Performance Statistic Database to ensure that the reporting of safety performance statistics are standardised, valid and reliable. It is a simple practice that requires all regional offices and power stations to upload their statistics at the end of every first week of the month. Meanwhile, contractors are to submit their statistics monthly for long-term projects and upon completion for short term ones.

Sarawak Energy's HSSE Department then submits the safety performance statistics for the year to the Director General of DOSH for review according to regulation 10 of the OSHA 1994 Notification of Accident, Dangerous Occurrence, Occupational Poisoning and Occupational Disease. This submission is done annually before January 31st.



Sarawak Energy cultivates a proactive HSE culture among their employees and contractors.

Labour Practices and Decent Work

Caring for Our People’s Health and Wellness

The health state of our employees is important to ensure that every job within each function is executed properly. As such, it is crucial to monitor them via annual check-ups. Meanwhile, new staff are required to undergo full medical check-ups prior to their first day of work.

To further reinforce health and wellness at the workplace, Sarawak Energy conducted several activities throughout the year including health inspections, talks and campaigns. On September 14th, the Company organised a health talk for its employees held at the Menara Sarawak Energy canteen, focussing on topics such as nutrition, goal setting and healthy living.

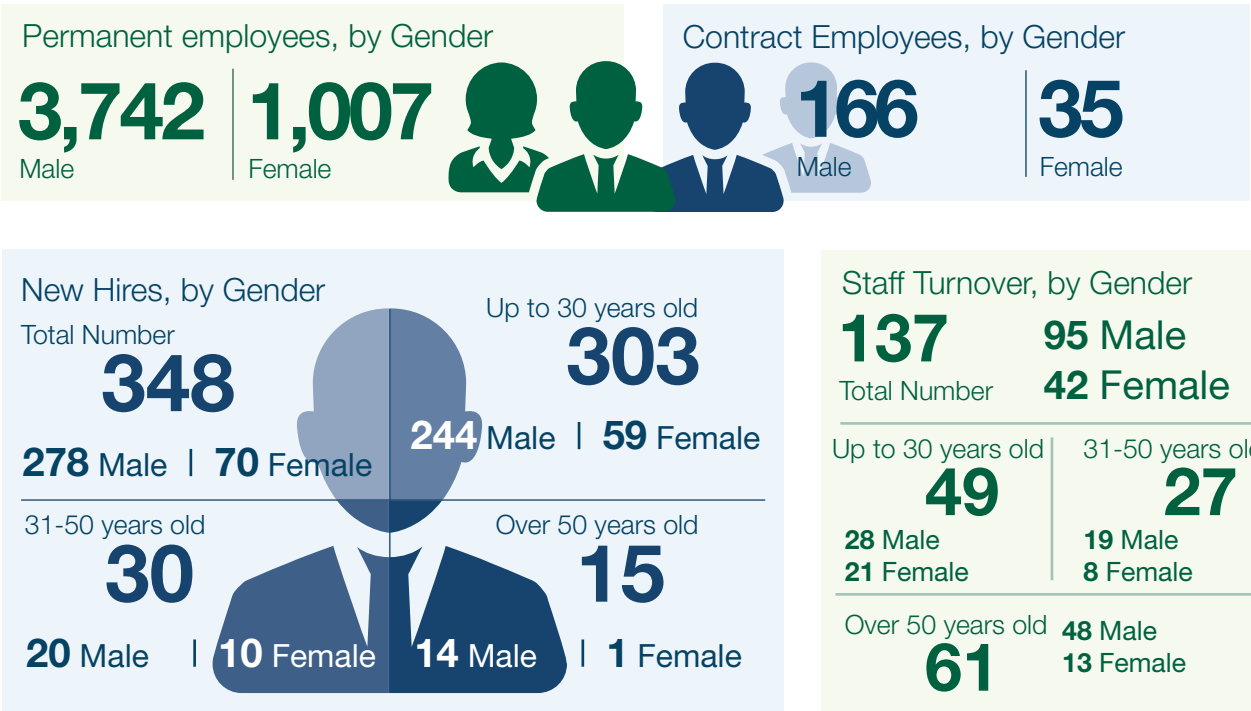
Our People

In 2017, Sarawak Energy further expanded its workforce with 348 new hires bringing the total number of employees to 4,950. However, the year also saw a total 137 employees leaving the organisation.

Breakdown is as follows:

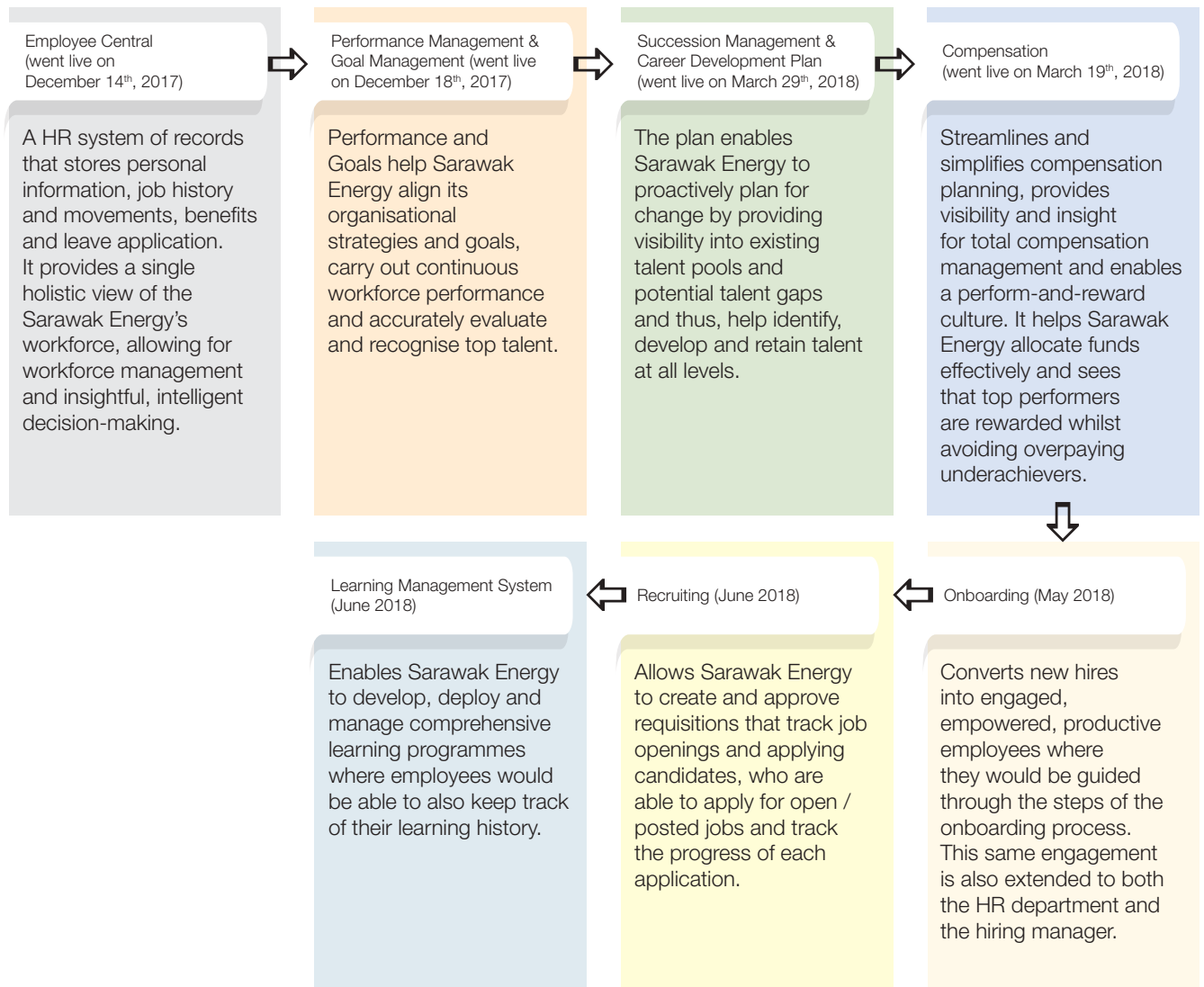


Health inspections are held throughout the year to reinforce health and wellness at the workplace.



Employees are now given 24-hour access to HR processes and applications, career development and performance management via a newly developed integrated one-stop human resource system called the Sarawak Energy People System (SEPS). The system aims to promote efficiency and effectiveness, and allows them more time to focus on crucial areas while streamlining the human resource process. Officially launched on March 20th, SEPS allows transparency and discloses real time updates.

The system comprises seven modules:



Labour Practices and Decent Work

Training

To develop a talented and dedicated workforce, Sarawak Energy truly believes that it must invest in its people and this is done through continuous training and development where the Company helps employees maximise their skills and experience.

The following is a breakdown on the summary of courses conducted from January to December 2017:

In-House Courses

COURSE CATEGORY	NO. OF COURSES
Administration & Management	39
Civil	2
Electrical	19
HSE	43
IT	1
Mechanical	13
Legal	2
Others	1
Quality Management	11
Technical	50
GRAND TOTAL	181

Note:

In-house trainings were delivered by external parties & conducted in Sarawak Energy

Internal Courses

COURSE CATEGORY	NO. OF COURSES
Chargeman	26
Wiring Installation	20
Switching	30
Other Electrical Courses	15
Mechanical Courses	3
Information Technology	2
Safety Awareness	85
First Aid	38
Administration	2
Total	221

Notes:ⁱ As per monthly reportⁱⁱ Internal trainings were conducted by Sarawak Energy personnel**External Courses**

COURSE CATEGORY	NO. OF COURSES
Administration & Management	115
Civil	8
Electrical	60
HSE	53
IT	42
Mechanical	9
Legal	13
Others	68
Quality Management	0
Technical	1
Grand Total	369

Appraisals

Performance appraisals are conducted on an annual basis to provide relevant feedback on employee performance, during which supervisors will fill up employees' appraisal forms and discuss their strengths and weaknesses.

This was successfully conducted for all employees (100%), including top management, managers, executives and non-executives.

Labour Practices and Decent Work

Empowering Sarawak Energy Change Agents

108 Change Agents of the Company were given the opportunity to improve their respective work processes and boost their sense of “job ownership” through the Work Process Improvement Initiative where they were equipped with knowledge and skills on how to review work processes via the “Plan, Do, Check, Action” (PDCA) workshops that were internally conducted by the Talent Management and Organisational Effectiveness team in March and May.

The year under review also saw the Company rebranding this programme to Sarawak Energy Ambassadors. The current list was reviewed and reselected by heads of departments who had evaluated it based on a set of criteria, which include looking into a potential nominee’s proactiveness, ability to collaborate, communication skills, ability to prioritise, result driven, degree of adaptability and strong core values. As a result, a total of 107 individuals have been selected to become designated drivers of corporate excellence who would:

- Facilitate and coordinate the initiative of SEES results
- Drive high performance mindset of “Winning Behaviour” in their respective departments

- Assist HOD in organising “Teh Tarik Sessions”
- Facilitate system and process improvement

They will be officially appointed as Sarawak Ambassadors in April 2018.

Recognising High Performing Employees

The Sarawak Energy Hall of Fame (HoF) is an avenue to recognise individuals and teams for their outstanding achievements and contributions in delivering the 5 Key Focus Areas (KFAs) and the Company’s strategic objectives. Launched on November 29th at the Sarawak Energy Leadership Conference, the HoF framework focuses on the below four criteria:

- Deliverables of the 5 KFAs and the Company’s strategic objectives and must be quantifiable and qualifiable
- Must significantly impact the Company or society
- Must be beyond the employee’s normal call of duty
- Must visibly demonstrate any of the Company’s Core Values



Teh Tarik session on gender equality and women empowerment.

Individual Development Plan

Aimed at developing employees' strengths, needs and career interests, the Individual Development Plan (IDP) is a platform to generate open and honest discussions between staff and their supervisors and thus, enable employees to reach their full potential within the organisation. It provides an opportunity for both supervisors and staff to discuss level of progression, the next job and a long-term role that he or she may be interested in, which will subsequently be forwarded to the Sarawak Energy Talent Council (see below for information on Talent Councils).

Sarawak Energy Talent Council

The Sarawak Energy Talent Council is a new talent management initiative designed to ensure that the Company has a robust succession-planning framework in place, especially for positions critical to the business. Accountable for acquiring, developing and deploying talents within the Company, the Council's role includes identifying potential talents who can contribute to Sarawak Energy's success who will be trained and equipped with skills required to take on leadership and technical roles in critical positions within the Company.

CARA-based Potential Assessment Tool (PAT)

Second-quarter of 2017 saw the introduction of a tool that would assess the potential of the Executive group to identify a talent pool of Ready Now and Ready Later candidates for succession planning purposes aptly named the Potential Assessment Tool, which was developed on Capacity, Achievement, Relationships and Adaptability (CARA).

The inaugural round of assessments assessed 899 staff, out of which 8% were identified High Potentials (HiPos). These HiPos will go through a series of programmes and initiatives to shape their technical / functional capacity and leadership qualities. It is conducted once every two years and ratings of existing talents will be reviewed at subsequent rounds. Staff who did not make the list in the previous round will stand a chance to be rated too, provided they fulfill the eligibility criteria.



Sarawak Energy Leadership Conference.

Local Community Development

As an energy utility company, our responsibility goes beyond that of our business, shareholders and employees. It is our responsibility to also ensure that we minimise any negative impact from our operations and to maximise the positive impacts of what we do for our community. We have identified four areas with the greatest potential for the development of long-term sustainable partnerships that meet the needs of the local communities in which we operate. These four areas are:

- Education and young people
- Community development and entrepreneurship
- Culture and heritage
- Environmental management and conservation

1. Education and Young People

Empowering Youths Through Education Enhancement and Skill Training Programmes

Baleh and Kapit

Empowering Baleh Youth through Skills Training Programme

Sarawak Energy continued to expand skills training programmes for the youth in Baleh and Kapit, to enhance their ability to tap into potential business and employment opportunities resulting from the development of the Baleh Hydroelectric project.

In 2017, 186 youths were trained and enrolled under various skills courses that had been identified to meet the major expectations of civil construction, mechanical-electrical works, administration and human resource for the operation and maintenance of the facilities associated with the development of a hydroelectric project. Sarawak Energy is targeting 500 youths from Baleh and Kapit to complete this skills training programme through capacity

building and skills development to maximise local participation and benefits for the local community in line with Hydropower Sustainability Assessment Protocol (HSAP).



Baleh youth undergoing abseiling training under the Baleh Youth Skills Training Programme.

Education Enhancement Programme for Schools in Baleh

Sarawak Energy partnered with Institut Pendidikan Guru Sarawak Campus and Kapit District Education Office to hold a programme designed to provide academic guidance and motivational support to students taking SPM and UPSR examinations in 2017, as well as engaging with their parents and teachers. The workshop included motivational talks for parents and teachers on the importance of prioritising education to open doors of opportunity, and proved popular with strong participation from about 200 students, teachers and parents of SMK Baleh and four primary schools - SK Temenggong Koh, SK Sempili, SK Entuloh and SK Lepong Gaat. Teachers with outstanding track records (Guru Cemerlang) provided exam-tips for Bahasa Melayu, English, Mathematics, Science and History.

*Belaga and Murum***Rural Youth Development Programme**

Group CEO Datu Sharbini Suhaili engaging with the local community of Sungai Asap.

The Bintulu Rural Football Development Programme was carried in partnership with Bintulu Football Association (BIFA) to develop interest for the sport among the youths in Belaga and Murum as well as to uncover new talents to be potentially absorbed in any one of three major State teams, namely the National Youth Cup, President Cup and Sarawak Football Teams. The programme resulted in ten players from the Murum Football Club selected to play in the Sarawak Cup at Mukah in November 2017.

Meanwhile, students of SK Metalun in Murum underwent a Literacy Social Inclusion programme facilitated by the Dyslexia Association of Sarawak (DASwk) in collaboration with the Sarawak Education Department and supported by Sarawak Energy. The programme helped students improve their reading and writing skills in both English and Bahasa Melayu.



Penan youths competing in a football match between villages in Murum.

Sarawak Energy also continued to support the education of the Penan in Belaga in the Murum Resettlement Area by contributing RM200,000 for the Penan Education Fund under Bakun Charitable Trust for the third consecutive year. The fund is used to provide educational assistance for Penan Communities from the Belaga district including six Penan villages and the sole Kenyah Badeng village from the Murum resettlement area, as well as 19 longhouses in the Belaga district.

At the end of the year, 28 primary six students from schools in the Belaga district – SK Abun Matu, SK Batu Keling, SK Long Gang, SK Airport, SK Punan Ba, SK Long Busang and SK Long Urun – got together for a one-day motivational programme organised by Sarawak Energy in partnership with the Belaga District Education Office aimed at enhancing the students' academic performance and encouraging academic excellence.

Local Community Development

Batang Ai

At the end of 2017, the Company stepped up its support for the Batang Ai community with a pledge to support education needs of local youths surrounding its first hydropower project site in Batang Ai through a dedicated revolving fund of RM200,000. The fund is aimed at enhancing the quality of primary and secondary learning and motivate students to work towards obtaining a tertiary education qualification for a brighter employment opportunities. In addition, a memorandum of understanding (MoU) was signed with Bakun Charitable Trust to improve employment prospects and socioeconomic progress of the community through a strong foundation in good education.

2. Community Development and Entrepreneurship Sustainable Livelihood Through Handicraft and Entrepreneurship

In 2016, Sarawak Energy embarked on a partnership with the Faculty of Applied and Creative Arts of Universiti Malaysia Sarawak (UNIMAS) to empower women of the resettled Penan community through a handicraft programme that teaches them to earn a living by creating

traditional and contemporary craft products. In its second year, the programme, which contributes to the United Nation's Sustainable Development Goals #5 and #10, has seen a vast improvement with the increased number of active artisans in the Murum resettled community from 30 to 170.

The implementation of this programme has seen further improvement in product quality and the participation of more women, especially the younger generation. Most importantly, the programme met its objectives to produce commercially-viable, value-added contemporary craft products. The artisans showcased their crafts at an event that was held at Menara Sarawak Energy attended by handicraft enthusiasts and representatives from the local craft industry.

Meanwhile, women in Baleh were provided socio-economic development training through the "Baleh Women Entrepreneurship Programme" organised by Sarawak Energy with the aim of equipping them with entrepreneurship knowledge and skills, as well as exposing them to business and local content opportunities resulting from the Baleh Hydroelectric Project.



Executive Vice President for Corporate Services Aisah Eden (right) with the Murum Penan artisans who displayed their weaving skills at the unveiling of a new range of contemporary designed handicrafts at Menara Sarawak Energy

103-2, 103-3, 203-1, 203-2

Sungai Asap artisans were also provided training and participated in the Borneo International Beads Conference (BIBCO) in October in Kuching.



Sungai Asap artisans undergoing handicraft training.

Better Vision for Better Living



Baleh community receiving free medical treatment under the Eye Vision programme.

As part of its responsibility to contribute to the well-being of the people, Sarawak Energy provided eye check-ups for the locals of the Baleh and Kapit communities through its Eye Vision Programme, which kicked off in May with an awareness and screening session to identify those deserving of an eye procedure. A total of 103 locals received free eye corrective surgeries at Kapit Hospital from December 14th to 16th, from which 86 were cataract patients and 17 were pterygium patients. These patients can now return to their income generating activities, which is estimated to generate about RM12.36 million worth of Social Return of Investment (SROI) for the community over the next 10 years.

Safety First at Apau Koyan Bakun, Belaga



Firemen teaching the community on fire safety and prevention.

Sarawak Energy collaborated with the Bintulu Fire and Rescue Department (BOMBA) and Persatuan Bomba Sukarela Sungai Asap in October 2017 to create awareness and educate 15 Apau Koyan longhouse communities on fire safety and prevention measures. As part of its commitment to the programme, the Company contributed 110 fire extinguishers and a set of firefighting equipment to the community.

Local Community Development

3. Culture and Heritage

Sarawak Energy involves itself with initiatives that support and preserve diverse cultural heritage particularly those that affect the communities surrounding its projects. One of the initiatives is the Murum Penan festival organized by the Murum Development Committee (MPDC) once in every two years to promote communal living values, culture and heritage, as well as strengthening the bond among the the Metalun and Tegulang communities. The Company also supports the annual sacred Batu Tungun Ritual Ceremony held by the Penan community for generations. Batu Tungun is a rock formation located at the right edge of the Murum dam crest. In addition and in line with its CSR community investment focus area, Sarawak Energy sponsors the Warisan Sape Telang Usan project, which is aimed at providing training for the youth in Long San to promote interest in sape music and preserve the traditional sape playing skill. The project is carried out in partnership with the Jawatankuasa Kemajuan dan Keselamatan Kampung (JKKK) and Long San community with support from SMK Temenggong Dato Lawai Jau and SK St. Pius for a period of 18 months from May 2016.

The Company also supports preservation of the cultural identity and native traditions of the Penans from Murum, and the Kenyah from Telang Usan at the iconic Rainforest World Music Festival (RWMF) 2017 where a group of Penan artisans were given the opportunity to showcase their weaving and beading skills at the RWMF bazaar.

TRANSPARENCY IN STAKEHOLDER ENGAGEMENT AND CONSULTATION

Baleh Hydroelectric Project (HEP)

Currently in the implementation stage, Sarawak Energy embarked on the mega Baleh Hydroelectric Project in which the Company managed to get consent from stakeholders, including the impacted indigenous communities through prior consultation with them, guided by the HSAP and in accordance with international standards of engagement.

To ensure incorporation of local feedback into the overall planning process whilst respecting indigenous traditions, the consultation process has been intensified with multi-step consultations involving State and district governments, local community leaders and headmen, as well as all members of the affected community.



Warisan Sape Telang Usan Programme for Baram youth.



Tender workshop for local contractors.



Briefing on local content for Baleh HEP to local contractors and suppliers.

A grievance mechanism led by a dedicated team is in place to manage and address grievances related to all phases of the development of the proposed project including project appraisal, planning, construction, impoundment and operational phases such as development of ancillary infrastructure and facilities.

Sarawak Energy has been regularly engaging with various stakeholders since 2015 in regard to its CSR initiatives and project progress through briefings, dialogues and workshops.

These stakeholders include local contractors, suppliers, district officers, assemblymen, members of the Kapit Chinese Chamber of Commerce and leaders of the Iban and Chinese communities of Baleh and Kapit.

In addition, the Company closely works with relevant representatives of the Baleh community – Baleh Community Consultative Committee and Pertubuhan Kebajikan Penduduk Baleh (PKPB) – in its effort to ensure that members of the affected communities are empowered through capacity building; provided opportunities for local participation; and that the projects' benefits are extended to them in line with the Hydropower Sustainability Assessment Protocol (HSAP) which is governed by International Hydropower Association (IHA).

Awards and Recognition



Social Empowerment Category Award at The Asia Responsible Entrepreneurship Awards (AREA) 2017



Gold Category Sarawak Chief Minister's Award 2017

Gold - Best Community Programme Award at The 9th Annual Global CSR Summit & Awards 2017



Best Musharakah Deal in Southeast Asia 2017 - MYR1 billion Sukuk Musharakah Issuance



Bronze Winner at 2017 International ARC Awards for Sarawak Energy's Sustainability Report 2015 - Catalyst for Change



Best Domestic M&A Deal in Southeast Asia 2017 - RM2.5 billion (US\$600 million) Acquisition of Sarawak Hidro

Independent Third Party Assurance Statement



Independent Assurance Report To Management of Sarawak Energy Berhad (2017)

We have been engaged by Sarawak Energy Berhad ("SEB") to perform an independent limited assurance engagement on selected Sustainability Information (hereon after referred to as "Selected Information" comprising the information set out in the Subject Matter) as reported in its Creating Value Sustainability Report 2017 ("SEB Sustainability Report 2017").

Management's Responsibility

Management of SEB is responsible for the preparation of the Selected Information included in the SEB Sustainability Report 2017 in accordance with the SEB's internal sustainability reporting guidelines and procedures.

This responsibility includes the selection and application of appropriate methods to prepare the Selected Information reported in the SEB Sustainability Report 2017 as well as the design, implementation and maintenance of processes relevant for the preparation. Furthermore, the responsibility includes the use of assumptions and estimates for disclosures made by SEB which are reasonable in the circumstances.

Our Responsibility

Our responsibility is to provide a conclusion on the Subject Matter based on our limited assurance engagement performed in accordance with the approved standard for assurance engagements in Malaysia, International Standard on Assurance Engagements (ISAE) 3000 "Assurance Engagements Other Than Audits or Reviews of Historical Financial Information". This standard requires that we comply with ethical requirements, and plan and perform the assurance engagement under consideration of materiality to express our conclusion with limited assurance.

The accuracy of the Selected Information is subject to inherent limitations given their nature and methods for determining, calculating and estimating such data.

Our assurance report should therefore be read in connection with SEB's sustainability reporting guidelines and procedures on the reporting of its sustainability performance.

In a limited assurance engagement, the evidence-gathering procedures are more limited than for a reasonable assurance engagement, and therefore less assurance is obtained than in a reasonable assurance engagement.

Subject Matter

The following information collectively known as Selected Information on which we provide limited assurance consists of the management and reporting processes with respect to the preparation of the following six (6) Selected Information reported and marked with asterisks (*) in SEB Sustainability Report 2017 as follows:

1. Grid Carbon Dioxide Emission Intensity for the financial year 2017;
2. Northern Grid Carbon Dioxide Emission Intensity for the financial year 2017;
3. Total Water Withdrawal By Source for the financial year 2017;
4. Annual Water Volume For Electricity Generation for the financial year 2017;
5. Economic Value Retained for the financial year 2017; and
6. Total Value Of Tenders Awarded To Local Companies for the financial year 2017.

Criteria

SEB's internal sustainability reporting guidelines and procedures by which the Selected Information is gathered, collated and aggregated internally.

PricewaterhouseCoopers PLT (LLP0014401-LCA & AF 1146), Chartered Accountants, Level 10, 1 Sentral, Jalan Rakyat, Kuala Lumpur Sentral, P.O. Box 10192, 50706 Kuala Lumpur, Malaysia
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PricewaterhouseCoopers PLT (LLP0014401-LCA & AF 1146) was registered on 02.01.2018 and with effect from that date, PricewaterhouseCoopers (AF 1146), a conventional partnership was converted to a limited liability partnership.



Main Assurance Procedures

Our work, which involved no independent examination of any of the underlying financial information, included the following procedures:

- Inquiries of personnel responsible for the Selected Information reported in SEB Sustainability Report 2017 regarding the processes to prepare the said report and the underlying controls over those processes;
- Inquiries of personnel responsible for data collection at the corporate, division and operation unit level for the Selected Information;
- Inspection on a sample basis of internal documents, contracts, reports, data capture forms and invoices to support the Selected Information for accuracy including observation of management's controls over the processes;
- Inquiries of personnel on the collation and reporting of the Selected Information at the corporate, division and operation unit level; and
- Checking the formulas, proxies and default values used in the computation of the Carbon Dioxide Emissions against SEB's sustainability reporting guidelines and procedures.

Independence and Quality Control

We have complied with the relevant independence requirements and other ethical requirements of the International Ethics Standards Board for Accountants' Code of Ethics for Professional Accountants, which are founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

We apply International Standard on Quality Control 1 "Quality Control for Firms that Perform Audits and Reviews of Financial Statements, and Other Assurance and Related Services Engagements", and accordingly maintain a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Conclusion

Based on our limited assurance engagement, in all material aspects, nothing has come to our attention that causes us to believe that the Selected Information in the Subject Matter has not been fairly stated in accordance with SEB's internal sustainability reporting guidelines.

Restriction on use

This report, including our conclusions, has been prepared solely for the Board of Directors and management of SEB in accordance with the agreement between us, in connection with the performance of an independent limited assurance on the Selected Information in the Subject Matter as reported by SEB in its SEB Sustainability Report 2017. Accordingly, this report should not be used or relied upon for any other purposes. We consent to the inclusion of this report in the SEB Sustainability Report 2017 and to be disclosed online at www.sarawakenergy.com.my, in respect of the 2017 financial year, to assist the Directors in responding to their governance responsibilities by obtaining an independent assurance report in connection with the Selected Information. As a result, we will not accept any liability or assume responsibility to any other party to whom our report is shown or into whose hands it may come. Any reliance on this report by any third party is entirely at its own risk.

PricewaterhouseCoopers PLT
LLP0014401-LCA & AF 1146
Chartered Accountants

Kuala Lumpur
7 November 2018

Content Index for 'in Accordance' - Core



This report was submitted for the GRI Materiality Disclosure Service. For the Materiality Disclosures Service, GRI Services reviewed that the GRI content index is clearly presented and the references for Disclosures 102-40 to 102-49 align with appropriate sections in the body of the report.

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
GRI 101: Foundation 2016				
General Disclosures				
GRI 102: General Disclosures 2016				
ORGANISATIONAL PROFILE				
102-1	Name of the organisation	Sarawak Energy Berhad (Sarawak Energy or the Company)		
102-2	Activities, brands, products, and services	Chairman's Foreword, p. 5 - 6; Organisational Profile p. 10 - 12 Our Corporate Structure, p. 16		
102-3	Location of headquarters	Menara Sarawak Energy, No. 1, The Isthmus, 93050 Kuching, Sarawak		
102-4	Location of operations	Sarawak, Malaysia		
102-5	Ownership and legal form	The principal activity of the Company is that of an investment holding company and information on the Company's structure can be found on p. 16		
102-6	Markets served	In general, the Company serves two types of customers: a) Organic – domestic, commercial, industrial and public lighting; b) Bulk – SCORE customers and interconnection See Organisational Profile, p. 11 - 12		
102-7	Scale of the organisation	Our Corporate Structure, p. 16		
102-8	Information on employees and other workers	Labour Practices and Decent Work, p. 58 & 62		No. 8 - Promote inclusive and sustainable economic growth, employment and decent work for all
102-9	Supply chain	Organisational Profile, p. 10 - 12		
102-10	Significant changes to the organisation and its supply chain	Changes are highlighted under Our Corporate Structure on. p. 16		
102-11	Precautionary Principle or approach	Chairman's Foreword, p. 5-6; GCEO's Overview, p. 21 - 27		

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
102-12	External initiatives	<p>The following is a list of externally developed economic, environmental and social charters, principles or other initiatives to which the Company subscribes to or endorses:</p> <ul style="list-style-type: none"> • Hydropower Sustainability Assessment Protocol (HSAP) • UNDRIP • Global Reporting Initiative (GRI) • Equator Principles • IFC • UN Global Compact (UNGC) • World Commission on Dams • ISO14001 • OSHA 		
102-13	Membership of associations	<p>As part of the Company's commitment towards sustainability, it signed a "Sustainability Partnership" with the International Hydropower Association (IHA) in early 2011, which requires it to use the Hydropower Sustainability Assessment Protocol as a tool to assess its performance against criteria concerning the project management of social, economic and environmental issues, as well as putting into place adequate and appropriate mitigation measures.</p> <p>Sarawak Energy is a GRI Gold Community Member and is also on the Board of Advisory for the UN Global Compact Network Malaysia</p>		
STRATEGY				
102-14	Statement from the most senior decision-maker	Chairman's Foreword, p. 5 - 6		
102-15	Key impacts, risks, and opportunities	GCEO's Review, p. 21 - 27		
ETHICS AND INTEGRITY				
102-16	Values, principles, standards, and norms of behavior	<p>Chairman's Foreword, p. 5 - 6; Our Vision and Our Mission, p. 13</p> <p>GCEO's Overview, p. 21 - 27</p>		No. 16 - Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels
GOVERNANCE				
102-18	Governance structure	Governance, p. 17		
STAKEHOLDER ENGAGEMENT				
102-40	List of stakeholder groups	GCEO's Overview, p. 23		

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
102-41	Collective bargaining agreements	All of Sarawak Energy's non-executive staff are covered by collective bargaining agreements		No. 8 - Promote inclusive and sustainable economic growth, employment and decent work for all
102-42	Identifying and selecting stakeholders	GCEO's Overview, p. 23 - 24		
102-43	Approach to stakeholder engagement	GCEO's Overview, p. 23		
102-44	Key topics and concerns raised	GCEO's Overview, p. 23		
REPORTING PRACTICE				
102-45	Entities included in the consolidated financial statements	Our Corporate Structure, p. 16		
102-46	Defining report content and topic Boundaries	See Scope of the Report, p. 7		
102-47	List of material topics	GCEO's Overview, p. 22		
102-48	Restatements of information	No restatements have been made		
102-49	Changes in reporting	Changes in the list of material topics and topic Boundaries, p. 22		
102-50	Reporting period	From 1 January 2017 until 31 December 2017 See Scope of the Report, p. 7		
102-51	Date of most recent report	The Company's 2016 Sustainability Report		
102-52	Reporting cycle	The Company plans to publish its Sustainability Report on an annual basis		
102-53	Contact point for questions regarding the report	General questions regarding this report can be addressed to Sustainability Division at: Menara Sarawak Energy, Level 8, No. 1, The Isthmus, 93050 Kuching, Sarawak Tel: 082-388 388 (ext. 8816 / 8165)		
102-54	Claims of reporting in accordance with the GRI Standards	This report has been prepared in accordance with the GRI Standards: Core option		
102-55	GRI content index	See p. 78 - 112		

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
102-56	External assurance	Disclosures within this year's edition of the Sarawak Energy Sustainability Report that are subjected to external assurance are: (p. 76 - 77) <ul style="list-style-type: none"> • Main Grid CO₂ Emission Intensity • Northern Grid CO₂ Emission Intensity • Annual Water Volume for Electricity Generation • Total Water Withdrawal by Source • Economic Value Retained • Total Value of Tenders Awarded to Local Companies 	Yes	
Material Topics				
Economic Performance				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	Catalysing Economic Sustainability, p. 34		
103-2	The management approach and its components	Catalysing Economic Sustainability, p. 34		
103-3	Evaluation of the management approach	Catalysing Economic Sustainability, p. 32 & 34		
GRI 201: Economic Performance 2016				
201-1	Direct economic value generated and distributed	Catalysing Economic Sustainability, p. 32 & 34	Yes	No. 2 - End hunger, achieve food security and improved nutrition and promote sustainable agriculture
Indirect Economic Impacts				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	Catalysing Economic Sustainability, p. 34, p. 36 - 37 Local Community Development, p. 68		
103-2	The management approach and its components	Catalysing Economic Sustainability, p. 35, 38, p. 40 - 43 Local Community Development, p. 68 - 73		
103-3	Evaluation of the management approach	Catalysing Economic Sustainability, p. 32 - 41 Labour Practices and Decent Work, p. 58 (see CSR Spending) Local Community Development, p. 68 - 73		

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
GRI 203: Indirect Economic Impacts 2016				
203-1	Infrastructure investments and services supported	Catalysing Economic Sustainability, p. 32 - 41 Labour Practices and Decent Work, p. 58 (see CSR Spending); Local Community Development, p. 68 - 73		<p>No 7 - Ensure access to affordable, reliable, sustainable and modern energy for all</p> <p>No 9 - Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>No 11 - Make cities and human settlements inclusive, safe, resilient and sustainable</p>
203-2	Significant indirect economic impacts	Catalysing Economic Sustainability, p. 32 - 41 Local Community Development, p. 68 - 73		<p>No. 1 - End poverty in all its forms everywhere</p> <p>No. 2 - End hunger, achieve food security and improved nutrition and promote sustainable agriculture</p> <p>No. 8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</p> <p>No. 10 - Reduce inequality within and among countries</p>

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure																								
				No. 17 - Strengthen the means of implementation and revitalize the global partnership for sustainable development																								
Procurement Practices																												
GRI 103: Management Approach 2016																												
103-1	Explanation of the material topic and its Boundaries	Catalysing Economic Sustainability, p. 34 - 35																										
103-2	The management approach and its components	Catalysing Economic Sustainability, p. 34 - 35																										
103-3	Evaluation of the management approach	Catalysing Economic Sustainability, p. 34 - 35																										
GRI 204: Procurement Practices 2016																												
204-1	Proportion of spending on local suppliers	2017 Hightlights, p. 9; Catalysing Economic Sustainability, p. 34 - 35	Yes	No. 12 - Ensure sustainable consumption and production patterns																								
		<table><tr><th>Tenders Awarded</th><th>Status</th><th>Year 2016</th><th>Year 2017</th></tr><tr><td rowspan="3">Capital Works</td><td>Sarawakian</td><td>445,710,032.50</td><td>1,620,376,421.35*</td></tr><tr><td>Malaysia (Non-Sarawakian)</td><td>138,620,455.11</td><td>501,190,506.73</td></tr><tr><td>International</td><td>1,565,861,871.58</td><td>2,884,065,817.05</td></tr><tr><td rowspan="3">Operations and Maintenance</td><td>Sarawakian</td><td>576,656,517.32</td><td>424,381,685.99*</td></tr><tr><td>Malaysia (Non-Sarawakian)</td><td>83,265,176.00</td><td>60,255,353.33</td></tr><tr><td>International</td><td>86,858,228.00</td><td>67,673,539.04</td></tr></table>	Tenders Awarded	Status	Year 2016	Year 2017	Capital Works	Sarawakian	445,710,032.50	1,620,376,421.35*	Malaysia (Non-Sarawakian)	138,620,455.11	501,190,506.73	International	1,565,861,871.58	2,884,065,817.05	Operations and Maintenance	Sarawakian	576,656,517.32	424,381,685.99*	Malaysia (Non-Sarawakian)	83,265,176.00	60,255,353.33	International	86,858,228.00	67,673,539.04		
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		Note: * This total value of tenders awarded to local companies data have been assured by a third party. Read the Independent Assurance Report on pages 76 - 77.																										
Materials																												
GRI 103: Management Approach 2016																												
103-1	Explanation of the material topic and its Boundaries	Our Commitment to Improving Our Environmental Footprint, p. 47 - 48 & p. 50 - 51																										
103-2	The management approach and its components	Our Commitment to Improving Our Environmental Footprint, p. 47 & p. 50 - 51																										
103-3	Evaluation of the management approach	2017 Highlights, p. 8; GCEO's Overview, p. 25 (see SDG #7) Our Commitment to Improving Our Environmental Footprint, p. 46 - 51																										

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Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure																																
GRI 301: Materials 2016																																				
301-1	Materials used by weight or volume	<p>2017 Highlights, p. 8; GCEO's Overview, p. 25 (see SDG #7) Our Commitment to Improving Our Environmental Footprint, p. 46 - 51</p> <p>Category: Non-Renewable Materials Used in 2017</p> <table><tr><th>Plant Type</th><th>Volume</th><th>Unit</th></tr><tr><td>Coal</td><td>2,228,768.01</td><td>Ton</td></tr><tr><td>Diesel*</td><td>15,675,168.40</td><td>Litre</td></tr><tr><td>Natural Gas</td><td>34,262,495.10</td><td>mmbtu</td></tr></table> <p><i>* Diesel – excluding Limbang & Lawas</i></p> <table><tr><th></th><th>2014</th><th>2015</th><th>2016</th><th>2017</th></tr><tr><td>Coal</td><td>2,100,509.91</td><td>2,166,911.46</td><td>2,136,639.32</td><td>2,228,768.01</td></tr><tr><td>Diesel</td><td>22,712,617.47</td><td>19,194,869.94</td><td>23,425,847.71</td><td>15,675,168.40</td></tr><tr><td>Natural gas</td><td>31,779,419.54*</td><td>26,370,960.45*</td><td>34,622,745.43</td><td>34,262,495.10</td></tr></table> <p>Note: <i>* This natural gas consumption for year 2014 & 2015 figure have been corrected from the Sarawak Energy Sustainability Report 2016</i></p> <p>Category: Renewable Materials Batang Ai HEP (2017):</p> <ul style="list-style-type: none">• Annual water volume 3,397* million m³ (for energy generation)• Annual inflow 3,658 million m³ (annual inflow from catchment)• Annual energy generated 442.32GWh <p>Murum HEP (2017)</p> <ul style="list-style-type: none">• Annual water volume 7,567* million m³ (for energy generation)• Annual inflow 10,933 million m³ (annual inflow from catchment)• Annual energy generated 5,717GWh• Annual water consumption 3,588 million m³ (Spillway discharge) <p>Bakun HEP (2017):</p> <ul style="list-style-type: none">• Annual water volume 32,962* million m³ (for energy generation)• Annual inflow 49,794 million m³ (annual inflow from catchment)• Annual energy generated 13,078GWh• Annual water consumption 16,948 million m³ (Spillway discharge) <p>Note: <i>* This annual water volume for electricity generation data have been assured by a third party. Read the Independent Assurance Report on pages 76 - 77.</i></p>	Plant Type	Volume	Unit	Coal	2,228,768.01	Ton	Diesel*	15,675,168.40	Litre	Natural Gas	34,262,495.10	mmbtu		2014	2015	2016	2017	Coal	2,100,509.91	2,166,911.46	2,136,639.32	2,228,768.01	Diesel	22,712,617.47	19,194,869.94	23,425,847.71	15,675,168.40	Natural gas	31,779,419.54*	26,370,960.45*	34,622,745.43	34,262,495.10	Yes	<p>No. 8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</p> <p>No. 12 - Ensure sustainable consumption and production patterns</p>
Plant Type	Volume	Unit																																		
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GRI 103: Management Approach 2016																																				
103-1	Explanation of the material topic and its Boundaries	Our Commitment to Improving Our Environmental Footprint, p. 47 - 48 & p. 50 - 51																																		
103-2	The management approach and its components	Our Commitment to Improving Our Environmental Footprint, p. 47 & p. 50 - 51																																		
103-3	Evaluation of the management approach	Our Commitment to Improving Our Environmental Footprint, p. 51																																		

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Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
GRI 303: Water 2016				
303-1	Water withdrawal by source	Our Commitment to Improving Our Environmental Footprint, p. 51	Yes	No. 6 - Ensure availability and sustainable management of water and sanitation for all
Biodiversity				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	Our Commitment to Improving Our Environmental Footprint, p. 47 - 48 & p. 50 - 51		
103-2	The management approach and its components	Our Commitment to Improving Our Environmental Footprint, p. 47 - 48 & p. 50 - 55		
103-3	Evaluation of the management approach	Our Commitment to Improving Our Environmental Footprint, p. 46 - 51 & p. 53		
GRI 304: Biodiversity 2016				
304-1	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	GCEO's Overview, p. 26 (see SDG #6) & p. 27 (see SDG #15) Our Commitment to Improving Our Environmental Footprint, p. 46 - 51 & p. 53		No. 6 - Ensure availability and sustainable management of water and sanitation for all No. 14 - Conserve and sustainably use the oceans, seas and marine resources for sustainable development No. 15 - Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

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Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
304-2	Significant impacts of activities, products, and services on biodiversity	GCEO's Overview, p. 26 (see SDG #6) & p. 27 (see SDG #15) Our Commitment to Improving Our Environmental Footprint, p. 46 - 51 & p. 53		No. 6 - Ensure availability and sustainable management of water and sanitation for all No. 14 - Conserve and sustainably use the oceans, seas and marine resources for sustainable development No.15 - Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss
Emissions				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	Our Commitment to Improving Our Environmental Footprint, p. 47 - 49		
103-2	The management approach and its components	Our Commitment to Improving Our Environmental Footprint, p. 47 - 49		
103-3	Evaluation of the management approach	Chairman's Foreword, p. 5; 2017 Highlights, p. 9 GCEO's Overview, p. 26; Our Commitment to Improving Our Environmental Footprint, p. 46 - 49		

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Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure																																																																
GRI 305: Emissions 2016																																																																				
305-1	Direct (Scope 1) GHG emissions	<div>Our Commitment to Improving Our Environmental Footprint, p. 46 - 49</div> <div>1. Gross direct (Scope 1) GHG emissions in metric tons of CO₂ equivalent</div> <table><thead><tr><th>Grid</th><th>Total Emissions (tCO₂eq) (2017)</th></tr></thead><tbody><tr><td>Main</td><td>5,325,836.68</td></tr><tr><td>Northern</td><td>98,042.77</td></tr><tr><td>Stand-Alone</td><td>11,033.58</td></tr><tr><td>Total tCO₂eq Emission</td><td>5,434,913.03</td></tr></tbody></table> <div>Total CO₂ Emission (Main Grid)</div> <table><thead><tr><th>POWER STATION (MAIN GRID)</th><th>2013</th><th>2014</th><th>2015</th><th>2016</th><th>2017</th></tr></thead><tbody><tr><td>PPLS Power Generation</td><td>796,564.42</td><td>699,287.53</td><td>770,033.30</td><td>828,257.76</td><td>848,625.75</td></tr><tr><td>Sejingkat Power Corp.</td><td>734,362.86</td><td>825,823.49</td><td>836,758.64</td><td>889,123.60</td><td>916,769.06</td></tr><tr><td>Mukah Power Sdn. Bhd.</td><td>1,521,674.59</td><td>1,630,849.29</td><td>1,678,345.18</td><td>1,572,390.67</td><td>1,658,355.86</td></tr><tr><td>Sarawak Power Generation</td><td>828,229.82</td><td>789,089.66</td><td>501,310.17</td><td>928,015.97</td><td>825,960.98</td></tr><tr><td>Bintulu PS</td><td>603,107.14</td><td>475,832.10</td><td>446,329.02</td><td>407,590.29</td><td>526,667.34</td></tr><tr><td>Miri PS</td><td>428,360.31</td><td>398,087.77</td><td>521,034.44</td><td>547,229.20</td><td>533,748.96</td></tr><tr><td>Sg Biawak PS</td><td>6,166.68</td><td>33,132.06</td><td>21,514.69</td><td>30,496.82</td><td>15,708.73</td></tr><tr><td>Total tCO₂eq Emission (Main Grid)</td><td>4,918,465.82</td><td>4,852,101.90</td><td>4,775,325.45</td><td>5,203,104.31</td><td>5,325,836.68</td></tr></tbody></table>	Grid	Total Emissions (tCO ₂ eq) (2017)	Main	5,325,836.68	Northern	98,042.77	Stand-Alone	11,033.58	Total tCO₂eq Emission	5,434,913.03	POWER STATION (MAIN GRID)	2013	2014	2015	2016	2017	PPLS Power Generation	796,564.42	699,287.53	770,033.30	828,257.76	848,625.75	Sejingkat Power Corp.	734,362.86	825,823.49	836,758.64	889,123.60	916,769.06	Mukah Power Sdn. Bhd.	1,521,674.59	1,630,849.29	1,678,345.18	1,572,390.67	1,658,355.86	Sarawak Power Generation	828,229.82	789,089.66	501,310.17	928,015.97	825,960.98	Bintulu PS	603,107.14	475,832.10	446,329.02	407,590.29	526,667.34	Miri PS	428,360.31	398,087.77	521,034.44	547,229.20	533,748.96	Sg Biawak PS	6,166.68	33,132.06	21,514.69	30,496.82	15,708.73	Total tCO₂eq Emission (Main Grid)	4,918,465.82	4,852,101.90	4,775,325.45	5,203,104.31	5,325,836.68		<div>No. 3 - Ensure healthy lives and promote well-being for all at all ages</div> <div>No. 12 - Ensure sustainable consumption and production patterns</div> <div>No. 13 - Take urgent action to combat climate change and its impacts</div> <div>No. 14 - Conserve and sustainably use the oceans, seas and marine resources for sustainable development</div> <div>No. 15 - Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</div>
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GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure		
	Total CO ₂ Emission (Northern Grid)					
	POWER STATION (NORTHERN GRID)	2013	2014	2015	2016	2017
	Limbang PS	56,813.27	58,749.86	60,939.51	63,859.92	61,989.99
	Lawas PS	32,029.91	33,347.74	35,234.70	39,870.99	36,052.77
	Total tCO₂eq Emission (Northern Grid)	88,843.18	92,097.60	96,174.21	103,730.92	98,042.76
	Total Overall Stand-alone Grid CO ₂ Emission (All over Sarawak)					
	POWER STATION (STAND ALONE GRID)	2013	2014	2015	2016	2017
	Kapit PS	23.99	121.26	0.00	55.35	30.09
	Belaga PS	3,095.91	3,283.10	3,636.68	3,700.47	3,505.23
	Song PS	0.00	0.00	0.00	0.00	0.00
	Ng Mujong PS	143.54	151.97	185.23	220.55	218.59
	Ng Ngungun PS	960.75	854.24	933.79	1,095.53	1,118.42
	Ng Jagau PS	158.61	159.97	178.61	214.01	226.73
	Ng Entawau PS	223.57	242.41	247.75	293.29	295.67
	Mulu PS	1,009.72	1,597.18	2,177.35	2,111.50	2,033.42
	Long Lama PS	2,382.71	2,426.75	2,518.51	2,721.80	2,762.67
	Pantu PS	725.76	0.00	0.00	0.00	0.00
	Banting PS	211.81	216.24	238.22	246.50	264.05
	Paloh PS	504.47	536.99	544.46	570.85	578.71
	Kg Bruit PS	2,263.87	2,409.49	966.12	8.92	0.00
	Kg Saai PS	794.78	905.70	268.97	1.82	0.00
	Bakun - Sg Asap PS	4,905.53	4,885.94	126.89	45.18	0.00
	Total tCO₂eq Emission (Stand-Alone Grid)	17,405.02	17,791.24	12,022.58	11,285.77	11,033.58

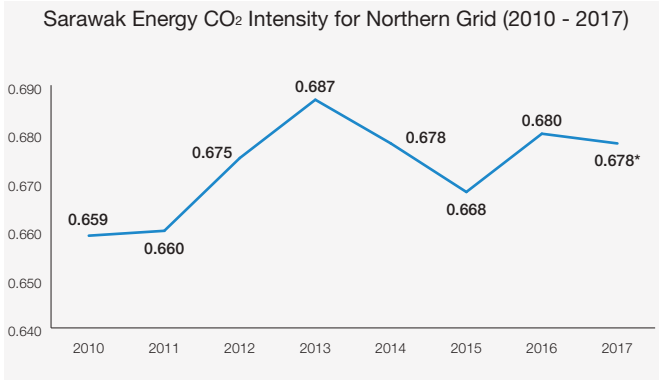
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Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure		
	Total Net Energy Generated for Main Grids					
Plant Type	Power Station	2013	2014	2015	2016	2017
Coal	PPLS Power Generation	665,653.45	673,067.79	700,422.90	722,881.10	673,687.00
Coal	Sejingkat Power Corp.	670,717.36	677,982.14	702,452.10	720,113.20	684,111.00
Coal	Mukah Power Sdn. Bhd.	1,381,055.96	1,481,594.57	1,478,459.86	1,328,886.32	1,494,404.00
BTU-Combined Cycle	Sarawak Power Generation	1,770,203.95	1,638,149.35	1,026,084.62	2,088,595.82	1,738,199.00
BTU-Open Cycle	Bintulu PS	695,162.97	572,782.13	486,779.46	405,355.13	614,311.00
Miri-Open Cycle	Miri PS	491,203.58	445,644.89	509,402.69	562,562.83	516,563.00
Diesel-Standby	Sg Biawak PS	5,098.36	37,644.93	22,737.11	33,584.08	16,183.00
Total MWh		5,679,095.63	5,526,865.80	4,926,338.74	5,861,978.48	5,737,458.00
Hydro-power	Batang Ai	349,834.63	311,289.09	315,331.46	444,514.18	442,324.00
Hydro-power	Bakun	5,415,266.50	8,477,979.00	7,721,996.75	12,161,263.00	13,078,267.00
Hydro-power	Murum	–	167,945.87	2,129,021.85	3,437,479.87	5,717,385.00
Hydro-power	Lundu PS	–	–	3,965.96	3,236.00	2,618.21
Total MWh		5,765,101.13	8,957,213.96	10,170,316.02	16,046,493.05	19,240,594.21

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure		
	Total Net Energy Generated for Stand-Alone Grids					
Plant Type	Plant	2013	2014	2015	2016	2017
Diesel	Kapit PS	–	–	–	–	–
Diesel	Belaga PS	3,684.30	3,752.66	4,054.91	4,144.13	3,969.62
Diesel	Song PS	–	–	–	–	–
Diesel	Ng Mujong PS	144.69	154.34	205.38	243.70	244.37
Diesel	Ng Ngungun PS	951.88	985.24	1,084.81	1,262.96	1,292.73
Diesel	Ng Jagau PS	134.26	128.65	123.31	155.97	210.12
Diesel	Ng Entawau PS	241.23	272.23	278.93	330.61	319.70
Diesel	Mulu PS	1,067.51	1,811.50	2,423.58	2,262.76	2,110.91
Diesel	Long Lama PS	2,945.30	2,962.34	3,069.97	3,301.29	3,283.94
Diesel	Pantu PS	864.01	–	–	–	–
Diesel	Banting PS	212.45	219.76	244.52	263.54	293.73
Diesel	Paloh PS	562.11	601.86	616.39	641.65	633.83
Diesel	Kg Bruit PS	2,507.33	2,699.45	1,064.10	5.56	–
Diesel	Kg Saai PS	885.24	987.13	289.88	–	–
Diesel	Bakun - Sg Asap PS	5,665.81	5,591.56	56.00	–	–
Total MWh		19,866.12	20,166.72	13,511.78	12,612.17	12,358.95
Total Net Energy Generated (Northern Grids)						
Plant Type	Plant	2013	2014	2015	2016	2017
Diesel	Limbang PS	79,535.69	81,769.58	85,331.79	86,650.77	84,837.18
Diesel	Lawas PS	42,470.59	44,129.66	49,059.72	53,624.09	48,472.29
Total MWh		122,006.28*	125,899.24	134,391.51	140,274.86	133,309.47
Note:						
* This total net energy generated (Northern Grids) for Lawas PS in year 2013 figure has been corrected from the Sarawak Energy Sustainability Report 2016.						

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure																																			
		<table><thead><tr><th>Plant Type</th><th>Plant</th><th>2013</th><th>2014</th><th>2015</th><th>2016</th><th>2017</th></tr></thead><tbody><tr><td>Mini Hydro</td><td>Lawas M/H (Kalamuku)</td><td>3,432.32</td><td>3,238.58</td><td>–</td><td>2,388.01</td><td>2,378.72</td></tr><tr><td>Mini Hydro</td><td>Lawas M/H (Sg. Kota)</td><td>3,811.00</td><td>6,678.60</td><td>–</td><td>4,698.30</td><td>8,916.80</td></tr><tr><td>Mini Hydro</td><td>Sg. Kejin</td><td>–</td><td>–</td><td>–</td><td>0.02</td><td>–</td></tr><tr><td colspan="2">Total MWh</td><td>7,243.32</td><td>9,917.18</td><td>–</td><td>7,086.33</td><td>11,295.52</td></tr></tbody></table>	Plant Type	Plant	2013	2014	2015	2016	2017	Mini Hydro	Lawas M/H (Kalamuku)	3,432.32	3,238.58	–	2,388.01	2,378.72	Mini Hydro	Lawas M/H (Sg. Kota)	3,811.00	6,678.60	–	4,698.30	8,916.80	Mini Hydro	Sg. Kejin	–	–	–	0.02	–	Total MWh		7,243.32	9,917.18	–	7,086.33	11,295.52		
Plant Type	Plant	2013	2014	2015	2016	2017																																	
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Total MWh		7,243.32	9,917.18	–	7,086.33	11,295.52																																	
		<p>Data assumption:</p> <p>1. Fuel consumption, fuel Calorific Value & fuel Specific Density (for CO₂ emission calculations) data obtained from OpX</p> <p>2. Net Energy Generated for main grid connected power plants (using GSO data) – Request for both grid Thermal & Hydro (Batang Ai, Bakun & Murum)</p> <p>3. Net Energy Generated for non-grid connected power plants (using Rural Operation data) – Request for both non grid Thermal & Mini hydro (Sg. Kejin)</p>																																					
305-4	GHG emissions intensity	<p>Chairman’s Foreword, p. 5; 2017 Highlights, p. 9; Our Commitment to Improving Our Environmental Footprint, p. 46 - 49</p> <p>Northern Grid</p> <div><p>Sarawak Energy CO₂ Intensity for Northern Grid (2010 - 2017)</p><table><thead><tr><th>Year</th><th>Intensity</th></tr></thead><tbody><tr><td>2010</td><td>0.659</td></tr><tr><td>2011</td><td>0.660</td></tr><tr><td>2012</td><td>0.675</td></tr><tr><td>2013</td><td>0.687</td></tr><tr><td>2014</td><td>0.678</td></tr><tr><td>2015</td><td>0.668</td></tr><tr><td>2016</td><td>0.680</td></tr><tr><td>2017</td><td>0.678*</td></tr></tbody></table></div> <p>Note:</p> <p>* This northern grid CO₂ emission intensity data has been assured by a third party. Read the Independent Assurance Report on pages 76 - 77.</p>	Year	Intensity	2010	0.659	2011	0.660	2012	0.675	2013	0.687	2014	0.678	2015	0.668	2016	0.680	2017	0.678*	Yes	<p>No. 13 -Take urgent action to combat climate change and its impacts</p> <p>No. 14 - Conserve and sustainably use the oceans, seas and marine resources for sustainable development</p> <p>No. 15 - Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</p>																	
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Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure																																		
		Overall stand-alone Grids (All over Sarawak)																																				
		<div><p>Sarawak Energy CO₂ Intensity for Stand-alone 2010 - 2017 (Whole Sarawak)</p><table><thead><tr><th>Year</th><th>CO₂ Intensity (tCO₂eq/MWh)</th></tr></thead><tbody><tr><td>2010</td><td>0.787</td></tr><tr><td>2011</td><td>0.816</td></tr><tr><td>2012</td><td>0.913</td></tr><tr><td>2013</td><td>0.876</td></tr><tr><td>2014</td><td>0.882</td></tr><tr><td>2015</td><td>0.890</td></tr><tr><td>2016</td><td>0.895</td></tr><tr><td>2017</td><td>0.893</td></tr></tbody></table></div>	Year	CO ₂ Intensity (tCO ₂ eq/MWh)	2010	0.787	2011	0.816	2012	0.913	2013	0.876	2014	0.882	2015	0.890	2016	0.895	2017	0.893																		
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		Plants CO ₂ Intensity (tCO ₂ eq/MWh) - Main Grid																																				
		<table><thead><tr><th>Year</th><th>Plant (Main Grid)</th><th>Total CO₂ Emission</th><th>Gross Energy Generated from Thermal</th><th>CO₂ Intensity (tCO₂eq/MWh)</th></tr></thead><tbody><tr><td rowspan="7">2017</td><td>Sejingkat Power Corp</td><td>916,769.06</td><td>727,761.85</td><td>1.260</td></tr><tr><td>PPLS</td><td>848,625.75</td><td>767,523.86</td><td>1.106</td></tr><tr><td>MPG</td><td>1,658,355.86</td><td>1,666,942.34</td><td>0.995</td></tr><tr><td>SPG</td><td>825,960.98</td><td>1,772,772.00</td><td>0.466</td></tr><tr><td>Bintulu SESCO</td><td>526,667.34</td><td>621,355.60</td><td>0.848</td></tr><tr><td>Miri SESCO</td><td>533,748.96</td><td>523,907.27</td><td>1.019</td></tr><tr><td>Sg Biawak SESCO</td><td>15,708.73</td><td>18,255.47</td><td>0.860</td></tr></tbody></table>	Year	Plant (Main Grid)	Total CO ₂ Emission	Gross Energy Generated from Thermal	CO ₂ Intensity (tCO ₂ eq/MWh)	2017	Sejingkat Power Corp	916,769.06	727,761.85	1.260	PPLS	848,625.75	767,523.86	1.106	MPG	1,658,355.86	1,666,942.34	0.995	SPG	825,960.98	1,772,772.00	0.466	Bintulu SESCO	526,667.34	621,355.60	0.848	Miri SESCO	533,748.96	523,907.27	1.019	Sg Biawak SESCO	15,708.73	18,255.47	0.860		
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305-5	Reduction of GHG emissions	GCEO's Overview, p. 26; Our Commitment to Improving Our Environmental Footprint, p. 46 & 49		<div>No. 13 - Take urgent action to combat climate change and its impacts</div> <div>No. 14 - Conserve and sustainably use the oceans, seas and marine resources for sustainable development</div>																																		

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Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure																																																							
				No. 15 - Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss																																																							
305-7	Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	Our Commitment to Improving Our Environmental Footprint, p. 46 & 49		No. 3 - Ensure healthy lives and promote well-being for all at all ages																																																							
		<table><tr><th>Year</th><th>Plant (Main Grid)</th><th>Gross Energy Generated from Thermal (kWh)</th><th>Total SOx Emission (kg)</th><th>Total NOx Emission (kg)</th><th>SOx Intensity (kgSOx/kWh)</th><th>NOx Intensity (kgNOx/kWh)</th></tr><tr><td>2017</td><td>Sejingkat Power Corp</td><td>727,761,852.00</td><td>1,267,457.84</td><td>250.19</td><td>1.74 x 10⁻³</td><td>3.44 x 10⁻⁷</td></tr><tr><td></td><td>PPLS</td><td>767,523,858.00</td><td>763,044.42</td><td>225.21</td><td>9.94 x 10⁻⁴</td><td>2.93 x 10⁻⁷</td></tr><tr><td></td><td>MPG</td><td>1,666,942,336.00</td><td>1,528,744.32</td><td>641.90</td><td>9.17 x 10⁻⁴</td><td>3.85 x 10⁻⁷</td></tr><tr><td></td><td>SPG</td><td>1,772,772,000.00</td><td>3,299.93</td><td>1,841,892.01</td><td>1.86 x 10⁻⁶</td><td>1.04 x 10⁻³</td></tr><tr><td></td><td>Bintulu SESCO</td><td>621,355,600.00</td><td>152,755.93</td><td>858.34</td><td>2.46 x 10⁻⁴</td><td>1.38 x 10⁻⁶</td></tr><tr><td></td><td>Miri SESCO</td><td>523,907,270.00</td><td>4,446.65</td><td>49,716.17</td><td>8.49 x 10⁻⁶</td><td>9.49 x 10⁻⁵</td></tr><tr><td></td><td>Sg Biawak SESCO</td><td>18,255,470.00</td><td>417.42</td><td>2.54</td><td>2.29 x 10⁻⁵</td><td>1.39 x 10⁻⁷</td></tr></table>	Year	Plant (Main Grid)	Gross Energy Generated from Thermal (kWh)	Total SOx Emission (kg)	Total NOx Emission (kg)	SOx Intensity (kgSOx/kWh)	NOx Intensity (kgNOx/kWh)	2017	Sejingkat Power Corp	727,761,852.00	1,267,457.84	250.19	1.74 x 10 ⁻³	3.44 x 10 ⁻⁷		PPLS	767,523,858.00	763,044.42	225.21	9.94 x 10 ⁻⁴	2.93 x 10 ⁻⁷		MPG	1,666,942,336.00	1,528,744.32	641.90	9.17 x 10 ⁻⁴	3.85 x 10 ⁻⁷		SPG	1,772,772,000.00	3,299.93	1,841,892.01	1.86 x 10 ⁻⁶	1.04 x 10 ⁻³		Bintulu SESCO	621,355,600.00	152,755.93	858.34	2.46 x 10 ⁻⁴	1.38 x 10 ⁻⁶		Miri SESCO	523,907,270.00	4,446.65	49,716.17	8.49 x 10 ⁻⁶	9.49 x 10 ⁻⁵		Sg Biawak SESCO	18,255,470.00	417.42	2.54	2.29 x 10 ⁻⁵	1.39 x 10 ⁻⁷	No. 12 - Ensure sustainable consumption and production patterns
Year	Plant (Main Grid)	Gross Energy Generated from Thermal (kWh)	Total SOx Emission (kg)	Total NOx Emission (kg)	SOx Intensity (kgSOx/kWh)	NOx Intensity (kgNOx/kWh)																																																					
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Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
Effluents and Waste				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	Our Commitment to Improving Our Environmental Footprint, p. 48		
103-2	The management approach and its components	Our Commitment to Improving Our Environmental Footprint, p. 50 - 51		
103-3	Evaluation of the management approach	Our Commitment to Improving Our Environmental Footprint, p. 51		
GRI 306: Effluents and Waste 2016				
306-1	Water discharge by quality and destination	Our Commitment to Improving Our Environmental Footprint, p. 51	Yes	No. 3 - Ensure healthy lives and promote well-being for all at all ages No. 6 - Ensure availability and sustainable management of water and sanitation for all No. 12 - Ensure sustainable consumption and production patterns No. 14 - Conserve and sustainably use the oceans, seas and marine resources for sustainable development
Environmental Compliance				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	Our Commitment to Improving Our Environmental Footprint, p. 47 - 49		
103-2	The management approach and its components	Our Commitment to Improving Our Environmental Footprint, p. 47		

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103-3	Evaluation of the management approach	Our Commitment to Improving Our Environmental Footprint, p. 49																																																																																											
GRI 307: Environmental Compliance 2016																																																																																													
307-1	Non-compliance with environmental laws and regulations	The Company did not incur any monetary sanctions in 2017		No. 16 - Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels																																																																																									
Employment																																																																																													
GRI 103: Management Approach 2016																																																																																													
103-1	Explanation of the material topic and its Boundaries	Labour Practices and Decent Work, p. 62																																																																																											
103-2	The management approach and its components	Labour Practices and Decent Work, p. 62 - 63																																																																																											
103-3	Evaluation of the management approach	Labour Practices and Decent Work, p. 58 & 62																																																																																											
GRI 401: Employment 2016																																																																																													
401-1	New employee hires and employee turnover	<div>Labour Practices and Decent Work, p. 58 & 62</div> <div>New Hires and Turnover by Gender and Age</div> <table><tr><th rowspan="2">New Hires (by Gender)</th><th colspan="3">2014</th><th colspan="3">2015</th><th colspan="3">2016</th><th colspan="3">2017</th></tr><tr><th>Men</th><th>Women</th><th>TOTAL</th><th>Men</th><th>Women</th><th>TOTAL</th><th>Men</th><th>Women</th><th>TOTAL</th><th>Men</th><th>Women</th><th>TOTAL</th></tr><tr><td>Total number</td><td>153</td><td>85</td><td>238</td><td>172</td><td>70</td><td>242</td><td>190</td><td>68</td><td>258</td><td>278</td><td>70</td><td>348</td></tr><tr><td colspan="13">By age, in numbers</td></tr><tr><td>Up to 30 years old</td><td>134</td><td>66</td><td>200</td><td>145</td><td>54</td><td>199</td><td>167</td><td>56</td><td>223</td><td>244</td><td>59</td><td>303</td></tr><tr><td>Between 31 and 50 years old</td><td>15</td><td>19</td><td>34</td><td>27</td><td>16</td><td>43</td><td>20</td><td>12</td><td>32</td><td>20</td><td>10</td><td>30</td></tr><tr><td>Over 50 years old</td><td>4</td><td>0</td><td>4</td><td>0</td><td>0</td><td>0</td><td>3</td><td>0</td><td>3</td><td>14</td><td>1</td><td>15</td></tr></table>	New Hires (by Gender)	2014			2015			2016			2017			Men	Women	TOTAL	Men	Women	TOTAL	Men	Women	TOTAL	Men	Women	TOTAL	Total number	153	85	238	172	70	242	190	68	258	278	70	348	By age, in numbers													Up to 30 years old	134	66	200	145	54	199	167	56	223	244	59	303	Between 31 and 50 years old	15	19	34	27	16	43	20	12	32	20	10	30	Over 50 years old	4	0	4	0	0	0	3	0	3	14	1	15	No. 5 - Achieve gender equality and empower all women and girls No. 8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all
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Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure																																																																																																																																																																																																															
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Over 50 years old	30	1	31	28	7	35	27	2	29	48	13	61																																																																																																																																																																																																							
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	<div><div>New Hires (by Company)</div><table><thead><tr><th></th><th colspan="3">2014</th><th colspan="3">2015</th><th colspan="3">2016</th><th colspan="3">2017</th></tr><tr><th></th><th>Men</th><th>Women</th><th>TOTAL</th><th>Men</th><th>Women</th><th>TOTAL</th><th>Men</th><th>Women</th><th>TOTAL</th><th>Men</th><th>Women</th><th>TOTAL</th></tr></thead><tbody><tr><td>Total number</td><td>153</td><td>85</td><td>238</td><td>172</td><td>70</td><td>242</td><td>190</td><td>68</td><td>258</td><td>278</td><td>70</td><td>348</td></tr><tr><td colspan="13">By company, in numbers</td></tr><tr><td>Sarawak Energy Berhad</td><td>1</td><td>3</td><td></td><td>2</td><td>0</td><td></td><td>82</td><td>37</td><td></td><td>254</td><td>61</td><td></td></tr><tr><td>Sejingkat Power</td><td>1</td><td>1</td><td></td><td>1</td><td>1</td><td></td><td>–</td><td>–</td><td></td><td>–</td><td>–</td><td></td></tr><tr><td>Mukah Power</td><td>3</td><td>1</td><td></td><td>7</td><td>1</td><td></td><td>–</td><td>–</td><td></td><td>–</td><td>–</td><td></td></tr><tr><td>SESCO Headquarters</td><td>70</td><td>56</td><td></td><td>93</td><td>51</td><td></td><td>51</td><td>21</td><td></td><td>1</td><td>4</td><td></td></tr><tr><td>SESCO Kuching</td><td>20</td><td>8</td><td></td><td>10</td><td>5</td><td></td><td>3</td><td>4</td><td></td><td>10</td><td>1</td><td></td></tr><tr><td>SESCO Sri Aman</td><td>5</td><td>0</td><td></td><td>2</td><td>0</td><td></td><td>1</td><td>0</td><td></td><td>0</td><td>2</td><td></td></tr><tr><td>SESCO Sarikei</td><td>5</td><td>1</td><td></td><td>0</td><td>0</td><td></td><td>1</td><td>0</td><td></td><td>2</td><td>1</td><td></td></tr><tr><td>SESCO Sibu</td><td>6</td><td>2</td><td></td><td>13</td><td>5</td><td></td><td>16</td><td>1</td><td></td><td>2</td><td>2</td><td></td></tr><tr><td>SESCO Bintulu</td><td>20</td><td>1</td><td></td><td>18</td><td>2</td><td></td><td>23</td><td>1</td><td></td><td>–</td><td>–</td><td></td></tr><tr><td>SESCO Miri</td><td>22</td><td>12</td><td></td><td>12</td><td>1</td><td></td><td>8</td><td>3</td><td></td><td>3</td><td>2</td><td></td></tr><tr><td>Balingan Power Generation</td><td>–</td><td>–</td><td></td><td>14</td><td>4</td><td></td><td>5</td><td>1</td><td></td><td>1</td><td>2</td><td></td></tr><tr><td>Sarawak Hidro Sdn Bhd</td><td>–</td><td>–</td><td></td><td>–</td><td>–</td><td></td><td>–</td><td>–</td><td></td><td>0</td><td>0</td><td></td></tr></tbody></table></div>		2014			2015			2016			2017				Men	Women	TOTAL	Men	Women	TOTAL	Men	Women	TOTAL	Men	Women	TOTAL	Total number	153	85	238	172	70	242	190	68	258	278	70	348	By company, in numbers													Sarawak Energy Berhad	1	3		2	0		82	37		254	61		Sejingkat Power	1	1		1	1		–	–		–	–		Mukah Power	3	1		7	1		–	–		–	–		SESCO Headquarters	70	56		93	51		51	21		1	4		SESCO Kuching	20	8		10	5		3	4		10	1		SESCO Sri Aman	5	0		2	0		1	0		0	2		SESCO Sarikei	5	1		0	0		1	0		2	1		SESCO Sibu	6	2		13	5		16	1		2	2		SESCO Bintulu	20	1		18	2		23	1		–	–		SESCO Miri	22	12		12	1		8	3		3	2		Balingan Power Generation	–	–		14	4		5	1		1	2		Sarawak Hidro Sdn Bhd	–	–		–	–		–	–		0	0			
	2014			2015			2016			2017																																																																																																																																																																																																									
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SESCO Headquarters	70	56		93	51		51	21		1	4																																																																																																																																																																																																								
SESCO Kuching	20	8		10	5		3	4		10	1																																																																																																																																																																																																								
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SESCO Sarikei	5	1		0	0		1	0		2	1																																																																																																																																																																																																								
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GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure																																						
	Staff Turnover (by Company)																																									
		<table><tr><th colspan="3">2014</th><th colspan="3">2015</th><th colspan="3">2016</th><th colspan="3">2017</th></tr><tr><th></th><th>Men</th><th>Women</th><th>TOTAL</th><th>Men</th><th>Women</th><th>TOTAL</th><th>Men</th><th>Women</th><th>TOTAL</th><th>Men</th><th>Women</th><th>TOTAL</th></tr><tr><td>Total number</td><td>92</td><td>22</td><td>114</td><td>84</td><td>25</td><td>109</td><td>86</td><td>28</td><td>114</td><td>95</td><td>42</td><td>137</td></tr></table>	2014			2015			2016			2017				Men	Women	TOTAL	Men	Women	TOTAL	Men	Women	TOTAL	Men	Women	TOTAL	Total number	92	22	114	84	25	109	86	28	114	95	42	137		
2014			2015			2016			2017																																	
	Men	Women	TOTAL	Men	Women	TOTAL	Men	Women	TOTAL	Men	Women	TOTAL																														
Total number	92	22	114	84	25	109	86	28	114	95	42	137																														
	By company, in numbers																																									
	Sarawak Energy Berhad	8	2	4	2	6	1	13	8																																	
	Sejingkat Power	2	0	3	1	3	1	2	0																																	
	Mukah Power	6	0	4	0	4	0	2	0																																	
	SESCO Headquarters	32	10	24	16	37	17	45	17																																	
	SESCO Kuching	13	3	7	2	13	3	11	9																																	
	SESCO Sri Aman	2	0	0	0	1	0	0	0																																	
	SESCO Sarikei	0	0	1	0	3	1	2	0																																	
	SESCO Sibul	11	2	12	2	9	1	7	4																																	
	SESCO Bintulu	5	2	13	1	5	0	4	0																																	
	SESCO Miri	13	3	16	1	3	4	8	4																																	
	Balingan Power Generation	–	–	–	–	2	0	1	0																																	
	Sarawak Hidro Sdn Bhd	–	–	–	–	–	–	0	0																																	
	<div>% Turnover rate 2014 = 2.74%</div> <div>% Turnover rate 2015 = 2.53%</div> <div>% Turnover rate 2016 = 2.55%</div> <div>% Turnover rate 2017 = 2.77%</div>																																									

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure	
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees				No. 8 - Promote inclusive and sustainable economic growth, employment and decent work for all
		Welfare			
		<u>Natural Calamity:</u>			
		Deceased Person			
		Rate (RM)			
		Serving Employee			
		3,000.00			
		Spouse & Children < 21 years			
		1,000.00			
		Biological Parent			
		500.00			
		Pensioner			
		500.00			
		Wreath / Delicacies			
		150.00			
		<u>Hospital Visit</u>			
		Fruits Basket or Baby's Gift			
		150.00			
		Benefits			
		Type of Loan			
		Entitlement (RM)			
		Remarks			
		(a) Housing (Subsidy)			
		360,000.00			
SG1-SG4					
300,000.00					
E5-E8					
250,000.00					
E1-E4					
200,000.00					
NE1-NE6					
(b) Car (Subsidy)					
170,000.00					
SG1-SG4					
130,000.00					
E5-E8					
80,000.00					
E1-E4					
50,000.00					
NE1-NE6					
(c) Motorcycle (Subsidy)					
50,000.00					
All staff					
(d) Computer					
3,000.00					
All staff					
House Moving Expenses Subsidy					
<u>Salary Grade</u>					
<u>Single (RM)</u>					
<u>Married (RM)</u>					
SG1-SG4					
1,950.00					
2,600.00					
E5-E8					
1,425.00					
1,900.00					
E1-E4					
1,125.00					
1,500.00					
NE1-NE6					
750.00					
1,000.00					

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
	<i>Types of Leave</i>	<i>Description</i>		<i>Remarks</i>
(a)	Annual	E1-SG1 = 20 days per annum NE1-NE6 = 15 days per annum		Service below 5 years
		E1-SG1 = 20 days per annum NE1-NE6 = 16 days per annum		Service above 5 years
		E1-SG1 = 25 days per annum NE1-NE6 = 20 days per annum		Service 10 years and above
(b)	Maternity	60 days - continuous		Limited to 5 surviving children
(c)	Nursing	90 days - maximum		Unpaid
(d)	Paternity	7 days - continuous		Limited to 5 occasions
(e)	Hajj	40 days		Granted only once; should serve for not less than 5 continuous years
(f)	Unrecorded	30 days per annum – maximum		For the purpose of: <ul style="list-style-type: none"> • Armed Forces Training • Sporting & Cultural Activities • Koperasi SESCO • Examination
(g)	Advance	5 days		For the following reasons: <ul style="list-style-type: none"> • Bereavement • Hospitalisation of family members • Flood
(h)	Study	Subject to terms and conditions as determined by the Company		
(i)	Compassionate	3 days - continuous		For purpose of attending the funeral of any one of the following relatives: <ul style="list-style-type: none"> • Spouse • Children who are natural, lawfully adopted or stepchildren • Parents
(j)	Deepavali	1 day		For Hindus or Sikhs, permanent or staff on fixed term contract
(k)	Overtime	Maximum 15 days or 120 hours		For E1-E4 Executives only; for 6 months only
(l)	Sick	<ul style="list-style-type: none"> • Non-hospitalised = 22 days • Hospitalised = 60 days 		Aggregate 60 days paid leave per annum
(m)	Prolonged Illness & Treatment	<ul style="list-style-type: none"> • On full salary for a maximum period of 2 consecutive months • On half salary for a further period of 2 consecutive months • Unpaid prolonged illness leave for a further period of 2 consecutive months 		
(n)	Quarantine	Paid quarantine leave		Employee who is required by the relevant Government authority
(o)	Blood donors privilege	1 day		

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
Occupational Health and Safety				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	Labour Practices and Decent Work, p. 59 & 62		
103-2	The management approach and its components	Labour Practices and Decent Work, p. 59, p. 61 - 62		
103-3	Evaluation of the management approach	Labour Practices and Decent Work, p. 58 – 59, & p. 62		
GRI 403: Occupational Health and Safety 2016				
403-1	Workers representation in formal joint management-worker health and safety committees	Labour Practices and Decent Work, p. 59		No. 8 - Promote inclusive and sustainable economic growth, employment and decent work for all
		Environment & Occupational Health & Safety (EOSH) Members in 2017:		
		Chairman	19	
		Secretary	19	
		Employer Representative	133	
		Employees Representative	213	
403-2	Type of injury and rates of injury, occupational diseases, lost days, and absenteeism, and total number of work-related fatalities	Labour Practices and Decent Work, p. 58 & 59		No. 3 - Ensure healthy lives and promote well-being for all at all ages No. 8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all
403-3	Workers with high incidence or high risk of diseases related to their occupation	Labour Practices and Decent Work, p. 62 (see Caring for Our People's Health and Wellness)		No. 3 - Ensure healthy lives and promote well-being for all at all ages

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
				No. 8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all
Training and Education				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	Labour Practices and Decent Work, p. 64		
103-2	The management approach and its components	Labour Practices and Decent Work, p. 64 - 67		
103-3	Evaluation of the management approach	Labour Practices and Decent Work, p. 65 - 67		
GRI 404: Training and Education 2016				
404-1	Average hours of training per year per employee	Total and Average of Hours of Training Recorded by Category and Gender (Internal Courses) for 2017		No. 4 - Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all
		Total Number of Employees by Category	Male Female	
		Management	33 3	
		Executive	390 189	
		Non Executive	2,580 220	
		Total Hours of Training by Category	Male Female	No. 5 - Achieve gender equality and empower all women and girls
		Management	315 56	
		Executive	5,957 2,842	
		Non Executive	37,013 2,772	
		Average Hours of Training by Category	Male Female	No. 8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all
		Management	9.55 18.67	
		Executive	15.27 15.04	
		Non Executive	14.35 12.60	

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
	Total Hours of Training Recorded by Category and Gender (In-House Courses) for 2017			
	Total Number of Employees by Category	Male	Female	
	Management	–	–	
	Executive	528	259	
	Non Executive	1,406	202	
	Total Hours of Training by Category	Male	Female	
	Management	–	–	
	Executive	8,531	3,920	
	Non Executive	22,845	2,893	
	Average Hours of Training by Category	Male	Female	
	Management	–	–	
	Executive	16.16	15.14	
	Non Executive	16.25	14.32	
	Total Hours of Training Recorded by Category and Gender (External Courses) for 2017			
	Total Number of Employees by Category	Male	Female	
	Management	120	55	
	Executive	444	286	
	Non Executive	197	229	
	Total Hours of Training by Category	Male	Female	
	Management	302	108	
	Executive	1,091	1,024	
	Non Executive	575	442	
	Average Hours of Training by Category	Male	Female	
	Management	2.52	1.96	
	Executive	2.46	3.58	
	Non Executive	2.92	1.93	

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
Total Hours of Training Recorded by Category and Gender (Leadership Courses) for 2017				
Total Number of Employees by Category		Male	Female	
Management		–	5	
Executive		256	198	
Non Executive		252	58	
Total Hours of Training by Category		Male	Female	
Management		–	105	
Executive		3,548	2,759	
Non Executive		3,528	812	
Average Hours of Training by Category		Male	Female	
Management		–	21.00	
Executive		13.86	13.93	
Non Executive		14.00	14.00	
404-2	Programmes for upgrading employee skills and transition assistance programmes	Labour Practices and Decent Work, p. 64-67		No. 8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all
404-3	Percentage of employees receiving regular performance and career development reviews	100%		No. 5 - Achieve gender equality and empower all women and girls No. 8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
Indigenous Rights				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	GCEO's Overview, p. 24 Local Community Development, p. 68		
103-2	The management approach and its components	Local Community Development, p. 68 - 73		
103-3	Evaluation of the management approach	Local Community Development, p. 68 - 73		
GRI 411: Rights of Indigenous People 2016				
411-1	Incidents of violations involving rights of indigenous peoples	There were no identified incidents of violations involving the rights of indigenous peoples during the reporting period		No. 2 - End hunger, achieve food security and improved nutrition and promote sustainable agriculture
Local Communities				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	Local Community Development, p. 68 & 72		
103-2	The management approach and its components	Local Community Development, p. 68 - 73		
103-3	Evaluation of the management approach	Local Community Development, p. 68 - 73		
GRI 413: Local Communities 2016				
413-1	Operations with local community engagement, impact assessments, and development programmes	100% of Sarawak Energy's operations involves and includes local community engagement, impact assessments and development programmes, particularly projects categorised under "prescribed activities" by the Natural Resources and Environment Board, Sarawak and Department of Environment		No. 16 - Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
Customer Privacy				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	Catalysing Economic Sustainability, p. 42		
103-2	The management approach and its components	Catalysing Economic Sustainability, p. 42		
103-3	Evaluation of the management approach	Catalysing Economic Sustainability, p. 42		
GRI 418: Customer Privacy 2016				
418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	There were no substantiated complaints regarding breaches of customer privacy and losses of customer data in 2017		No. 16 - Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels
Socioeconomic Compliance				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	GCEO's Overview, p. 24 Catalysing Economic Sustainability, p. 38 Local Community Development, p. 70		
103-2	The management approach and its components	GCEO's Overview, p. 24 Catalysing Economic Sustainability, p. 38 Local Community Development, p. 70		
103-3	Evaluation of the management approach	GCEO's Overview, p. 24 Catalysing Economic Sustainability, p. 38 Local Community Development, p. 70		

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure																																	
GRI 419: Socioeconomic Compliance 2016																																					
419-1	Non-compliance with laws and regulations in the social and economic area	During the year under review, Sarawak Energy did not incur any fines for non-compliance with: i. Provision and use of products and services ii. Products and services on information and labeling iii. Marketing communications including advertising, promotions and sponsorships		No. 16 - Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels																																	
Electric Utilities Sector Disclosures																																					
Organisational Profile																																					
G4 Sector Disclosure: Organisational Profile																																					
EU1	Describe the fuels used and the capacity of multi-fuel plants	Our Commitment to Improving Our Environmental Footprint, p. 48		No. 7 – Ensure access to affordable, reliable, sustainable and modern energy for all																																	
EU2	Describe net energy generated by the utility in GWh or GJ	<table><tr><td>Major Grid Generation by Plants (GWh), by Energy Source</td><td>2017</td></tr><tr><td></td><td>Net</td></tr><tr><td>Hydro</td><td></td></tr><tr><td>Batang Ai HEP</td><td>442</td></tr><tr><td>Bakun HEP</td><td>13,077</td></tr><tr><td>Murum HEP</td><td>5,709</td></tr><tr><td>Coal</td><td></td></tr><tr><td>Sejangkat Power (SPC 1)</td><td>654</td></tr><tr><td>PPLS-PG (SPC 2)</td><td>703</td></tr><tr><td>Mukah Power Generation (MPG)</td><td>1,487</td></tr><tr><td>Gas</td><td></td></tr><tr><td>Miri Pujut Open Cycle</td><td>517</td></tr><tr><td>Bintulu 1-5 Open Cycle</td><td>613</td></tr><tr><td>SPG Combined Cycle</td><td>1,732</td></tr><tr><td>Diesel</td><td></td></tr><tr><td>Biawak Power Plant</td><td>17</td></tr><tr><td>TOTAL ENERGY GENERATED</td><td>24,951</td></tr></table>	Major Grid Generation by Plants (GWh), by Energy Source	2017		Net	Hydro		Batang Ai HEP	442	Bakun HEP	13,077	Murum HEP	5,709	Coal		Sejangkat Power (SPC 1)	654	PPLS-PG (SPC 2)	703	Mukah Power Generation (MPG)	1,487	Gas		Miri Pujut Open Cycle	517	Bintulu 1-5 Open Cycle	613	SPG Combined Cycle	1,732	Diesel		Biawak Power Plant	17	TOTAL ENERGY GENERATED	24,951	No. 7 - Ensure access to affordable, reliable, sustainable and modern energy for all No. 14 - Conserve and sustainably use the oceans, seas and marine resources for sustainable development
Major Grid Generation by Plants (GWh), by Energy Source	2017																																				
	Net																																				
Hydro																																					
Batang Ai HEP	442																																				
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TOTAL ENERGY GENERATED	24,951																																				

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure					
EU3	Report the total number of accounts by type and by point of connection and customers who are also producers	Grid / Non Grid No. of Customers Ending 2017							
			No. of Active Customer Accounts	No. of Inactive Customer Accounts	Total No. of Customer Accounts				
		Grid	Tariff						
		Grid	C1	89,910	5,994	95,904			
		Grid	C2	22	1	23			
		Grid	C3	35	1	36			
		Grid	DOM	538,054	21,491	559,545			
		Grid	I1	890	24	914			
		Grid	I2	40	3	43			
		Grid	I3	88	3	91			
		Grid	I4	12	0	12			
		Grid	PL	9,796	246	10,042			
		Non Grid	C1	3,663	213	3,876			
		Non Grid	DOM	16,413	976	17,389			
		Non Grid	I1	22	0	22			
		Non Grid	PL	244	3	247			
		Grand Total		659,189	28,955	688,144			
		EU4	Report aggregated circuit lengths in km, by regulatory regime, voltage category, and overhead and/or underground	Distribution Lines			No. 7 - Ensure access to affordable, reliable, sustainable and modern energy for all		
Newly Constructed in 2017									
Region	33kV Distribution			11kV Distribution		415V Distribution			
	O/H (km)			U/G (km)	O/H (km)	U/G (km)		O/H (km)	U/G (km)
WR Kuching	0			58	42.84	59.87		110.2	58.01
WR Sri Aman	66.06			14.59	124.29	13.16		109.38	2.26
CR Sarikei	23.58			1.49	1.88	7.66		11.69	2.20
CR Sibu	84.04			32.42	22.11	27.83		84.70	28.78
NR Bintulu	153.7			9.92	23.41	9.54		158.30	9.23
NR Miri	0			30.77	7.70	15.57		86.93	32.10
NR Limbang	9.20			0	84.79	0		0.20	0
Total	336.58			147.20	307.03	133.63		561.41	132.59
Transmission Lines									
Newly Constructed in 2017									
500kV energized at 275kV				275kV	132kV	Total			
Overhead (km)	849.0			52.9	0.0	901.9			
Underground (km)	–			–	–	–			
Total (km)	849.0			52.9	0.0	901.9			

No. 7 - Ensure access to affordable, reliable, sustainable and modern energy for all

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
EU5	Report on the emissions trading schemes or alternative requirements for managing CO ₂ emissions	Not relevant		
Availability & Reliability				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	Catalysing Economic Sustainability, p. 37		
103-2	The management approach and its components	Catalysing Economic Sustainability, p. 36		
103-3	Evaluation of the management approach	Catalysing Economic Sustainability, p. 36		
G4 Sector Disclosure: Availability & Reliability				
EU10	Planned Capacity Against Projected Electricity Demand over the long term, broken down by energy source and regulatory regime	Catalysing Economic Sustainability, p. 36 - 37 (see Availability and Reliability)		No. 7 - Ensure access to affordable, reliable, sustainable and modern energy for all
System Efficiency				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	Catalysing Economic Sustainability, p. 38		
103-2	The management approach and its components	Catalysing Economic Sustainability, p. 38 & 40		
103-3	Evaluation of the management approach	Catalysing Economic Sustainability, p. 38 - 40		

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
G4 Sector Disclosure: System Efficiency				
EU11	Average generation of efficiency of thermal plants by energy source and by regulatory regime	Catalysing Economic Sustainability, p. 39		<p>No. 7 - Ensure access to affordable, reliable, sustainable and modern energy for all</p> <p>No. 8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</p> <p>No. 12 - Ensure sustainable consumption and production patterns</p> <p>No. 13 - Take urgent action to combat climate change and its impacts</p> <p>No. 14 - Conserve and sustainably use the oceans, seas and marine resources for sustainable development</p>
EU12	Transmission and distribution losses as percentage of total energy	Catalysing Economic Sustainability, p. 40 (see Transmission and Distribution Losses)		<p>No. 7 - Ensure access to affordable, reliable, sustainable and modern energy for all</p> <p>No. 8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</p>

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
				No. 12 - Ensure sustainable consumption and production patterns No. 13 - Take urgent action to combat climate change and its impacts No. 14 - Conserve and sustainably use the oceans, seas and marine resources for sustainable development
Access				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	GCEO's Overview, p. 24 Catalysing Economic Sustainability, p. 37		
103-2	The management approach and its components	GCEO's Overview, p. 24 Catalysing Economic Sustainability, p. 36		
103-3	Evaluation of the management approach	2017 Highlights, p. 9 GCEO's Overview, p. 24 Catalysing Economic Sustainability, p. 32 - 33, p. 36, p. 38 - 41 Labour Practices and Decent Work, p. 58		
G4 Sector Disclosure: Access				
EU26	Percentage of population unserved in licensed distribution or service areas	GCEO's Overview, p. 24 Catalysing Economic Sustainability, p. 33 Labour Practices and Decent Work, p. 58 <ul style="list-style-type: none"> State electricity coverage – 95% Rural electricity coverage – 90% (7,499 of rural households electrified in 2017) 		No. 1 - End poverty in all its forms everywhere No. 7 - Ensure access to affordable, reliable, sustainable and modern energy for all
Rural Electrification Scheme (RES) Achievements				
NEW HOUSEHOLDS CONNECTED				
YEAR		2016	2017	
Normal Rural Electrification Scheme (RES)		12,697	5,409	
Hybrid Programmes		1,224	966	
SARES		719	1,124	
TOTAL		14,640	7,499	

GRI Content Index for 'in Accordance' - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure
EU27	Number of residential disconnections for non-payments, broken down by duration of disconnection and by regulatory regime	Catalysing Economic Sustainability, p. 40 (see Enhancing Service Quality)		No. 1 - End poverty in all its forms everywhere No. 7 - Ensure access to affordable, reliable, sustainable and modern energy for all
EU28	Power outage frequency	Catalysing Economic Sustainability, p. 40 - 41		No. 7 - Ensure access to affordable, reliable, sustainable and modern energy for all
EU29	Average power outage duration	2017 Highlights, p.9, Catalysing Economic Sustainability, p. 32, p. 40 - 41		No. 1 - End poverty in all its forms everywhere No. 7 - Ensure access to affordable, reliable, sustainable and modern energy for all
EU30	Average plant availability factor by energy source and by regulatory regime	GCEO's Overview, p.25, Catalysing Economic Sustainability, p.33, p.36, p. 38-39		No. 1 - End poverty in all its forms everywhere No. 7 - Ensure access to affordable, reliable, sustainable and modern energy for all
Research & Development				
GRI 103: Management Approach 2016				
103-1	Explanation of the material topic and its Boundaries	Our Commitment to Improving Our Environmental Footprint, p. 54 - 55		
103-2	The management approach and its components	Our Commitment to Improving Our Environmental Footprint, p. 54 - 55		

GRI Content Index for ‘in Accordance’ - Core

Disclosure Number	Disclosure Title	Page	External Assurance	SDG linkage to Disclosure																		
103-3	Evaluation of the management approach	Our Commitment to Improving Our Environmental Footprint, p. 54 - 55																				
G4 Sector Disclosure: Research & Development																						
(Former EU8)	Research and development activity and expenditure aimed at providing reliable electricity and promoting sustainable development	<div>Our Commitment to Improving Our Environmental Footprint, p. 54-55 (see Hydro Environmental Science Research Programmes)</div> <div>Research and Development Projects for 2017<table><tr><th>No.</th><th>Name of Project</th><th>Approved Budget (RM)</th></tr><tr><td>1.</td><td>PLS-170120 (Purchase R&D Research Boat)</td><td>150,000.00</td></tr><tr><td>2.</td><td>PLS-170125 (Procurement of Agro ATV & Carrier Trucks)</td><td>800,000.00</td></tr><tr><td>3.</td><td>PLS-170062 (Purchase of Testing Equipment for REN)</td><td>28,750.00</td></tr><tr><td>4.</td><td>PLS-170070 (R&D Block Vote 2017)</td><td>9,708,000.00</td></tr><tr><td>5.</td><td>PLS-170136 (Radiometry Thermal Camera for UAV)</td><td>92,000.00</td></tr></table></div>	No.	Name of Project	Approved Budget (RM)	1.	PLS-170120 (Purchase R&D Research Boat)	150,000.00	2.	PLS-170125 (Procurement of Agro ATV & Carrier Trucks)	800,000.00	3.	PLS-170062 (Purchase of Testing Equipment for REN)	28,750.00	4.	PLS-170070 (R&D Block Vote 2017)	9,708,000.00	5.	PLS-170136 (Radiometry Thermal Camera for UAV)	92,000.00		<div>No. 7 - Ensure access to affordable, reliable, sustainable and modern energy for all</div> <div>No. 9 - Build resilient infrastructure, promote inclusive and sustainable industrialisation and foster innovation</div> <div>No. 17 - Strengthen the means of implementation and revitalise the global partnership for sustainable development</div>
No.	Name of Project	Approved Budget (RM)																				
1.	PLS-170120 (Purchase R&D Research Boat)	150,000.00																				
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