



# **BOSH 2019**

## **Journey Towards OSH Excellence**

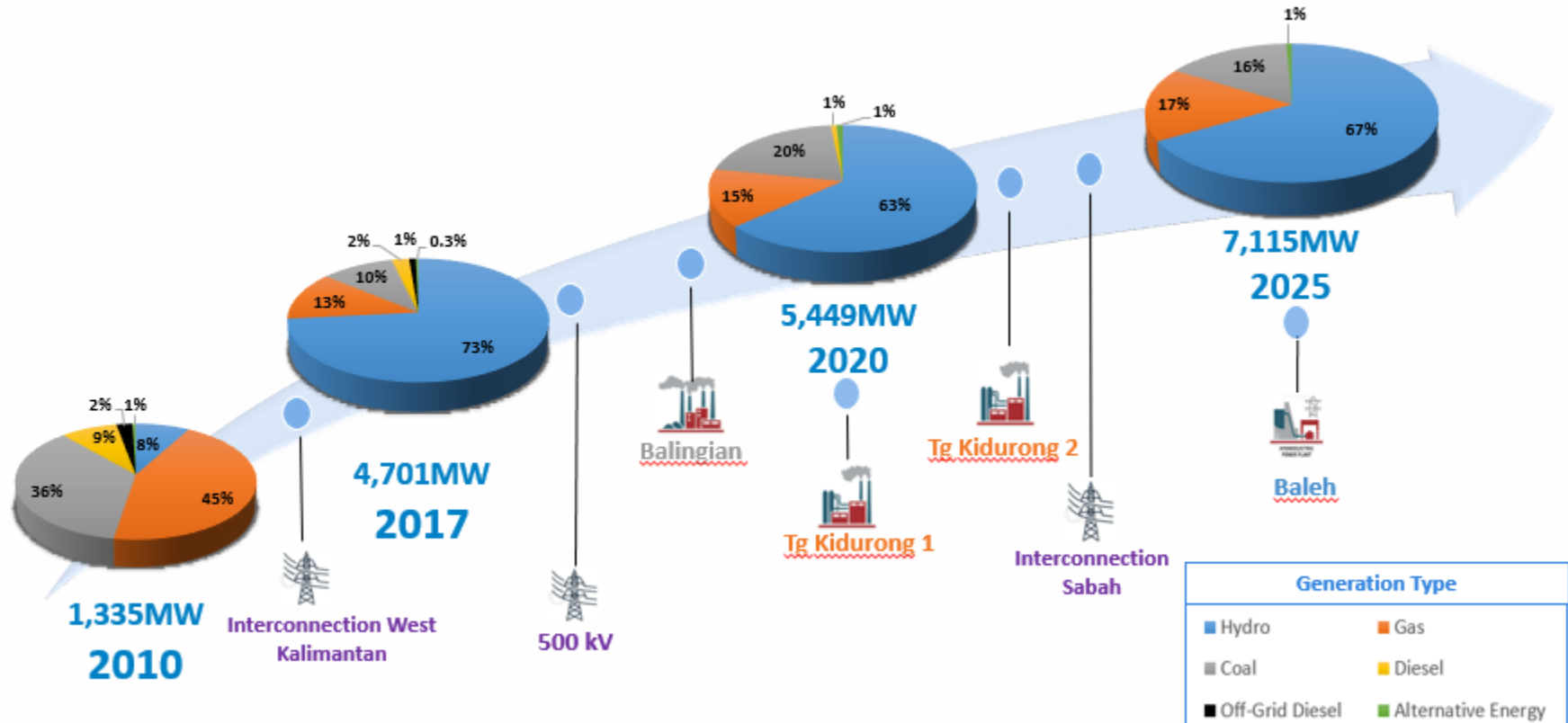
**Effendy Syaiful Bin Abdullah**  
Senior Manager  
Occupational Safety & Health  
16 October 2019

# About Sarawak Energy



- Fully integrated power utility and energy development company, wholly owned by the state of Sarawak
- Generates power through hydro and thermal (coal and gas)
- Serving a population of 2.6 million covering 650,000 domestic, commercial, industrial and export customers through an extensive transmission and distribution network.
- Multidisciplinary workforce of 5,000
- Lowest tariffs in Malaysia and amongst the lowest in South East Asia

# Generation Mix and Installed Capacity



# Hydroelectric Plant (HEPs)



**Batang Ai**

108 MW Installed Capacity  
Commissioned in 1984



**Bakun**

2,400MW Installed Capacity  
Joint-largest in  
Commissioned in 2011



**Murum**

944 MW Installed Capacity  
Commissioned in 2014



**Baleh**

**1285MW Installed Capacity**  
**Expected date of**  
**commissioning : 2025**



**Our HEPs are developed according to International Commission on Large Dams (ICOLD) standards and guidelines which ensure they are built and operated safely, efficiently, economically and are environmentally and socially equitable.**

# Thermal Power Plants

## GAS



### Bintulu (Gas)

**317 MW CC Installed Capacity**

**Malaysia's First Clean Development Mechanism (CDM) Plant**

**Commercial Operations : 1999**



### Tanjung Kidurong CCGT

**842 MW CC Installed Capacity**

**Date of Commissioning : 2019**

## COAL



### Sejingkat (Coal)

**210 MW Installed Capacity**

**Commercial operations:  
Phase 1 -1998, Phase 2-2005**



### Mukah (Coal)

**270 MW Installed Capacity**

**Commercial Operations: 2009**



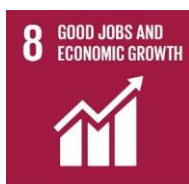
### Balingian Coal-Fired Power Plant

**2x300MW Installed Capacity**

**Date of Commissioning: 2020**



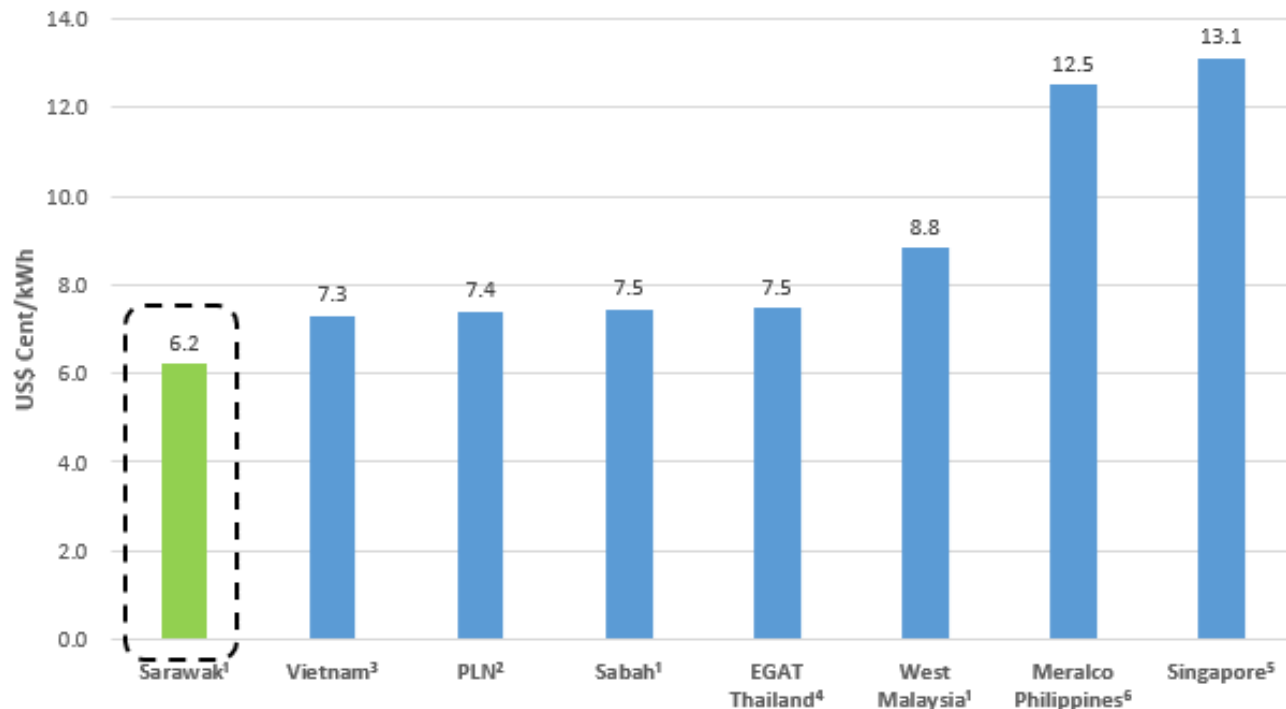
7 AFFORDABLE AND  
CLEAN ENERGY



8 GOOD JOBS AND  
ECONOMIC GROWTH

# Among the Lowest Tariffs within ASEAN

- for Residential, Commercial and Small Medium Enterprises



Source:

<sup>1</sup>Malaysia Energy Statistics Handbook 2017

<sup>2</sup>Power in Indonesia, PWC, November 2017

<sup>3</sup>Vietnam Electricity Annual Report 2017

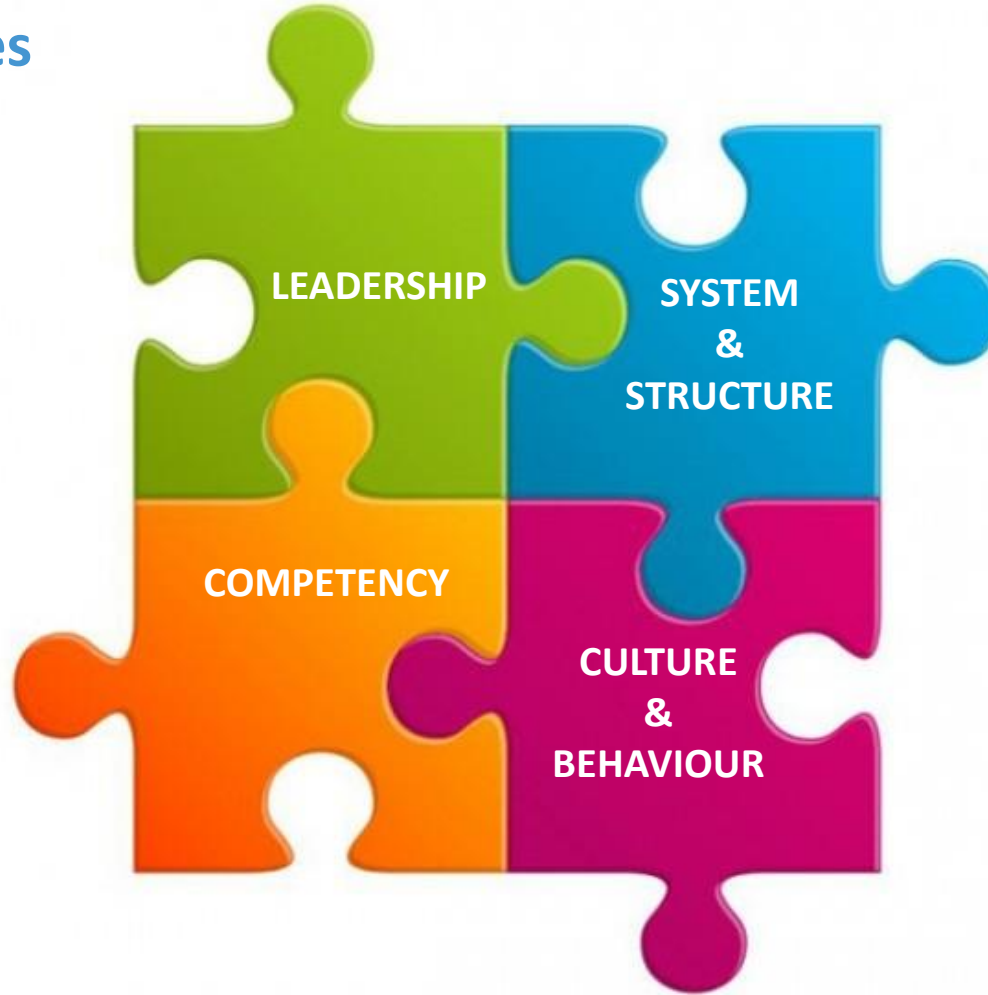
<sup>4</sup>EGAT Annual Report 2017

<sup>5</sup>Singapore Energy Statistics 2017

<sup>6</sup>Meralco Annual Report 2017



# Key Challenges



High level **COMMITMENT** & leadership through **EXEMPLARY** conduct

PROVIDE **comprehensive system & tools** (procedures, guidelines, safe work instructions & regulatory requirement) and **ensure FULL IMPLEMENTATION** at all level

**COMPETENT** personnel carries out **critical activities**

Full **COMPLIANCE** with SEB and Country/State's legislative requirements

# Sarawak Energy Excellence 2020







To Achieve a Sustainable  
Health, Safety & Environment  
Culture within Sarawak Energy

To create the right safety culture, we must make **Safety our Top Priority**.

It is about getting to the **Hearts and Minds** of our people, including our contractors such that our people and our contractors take it upon themselves to ensure their own safety and those around them.

More importantly, that we do not accept living in a world of non-compliance or watered-down standards.

# Sarawak Energy Excellence 2020



## Proactive HSE Culture



## Health

95% of employees with Body Mass Index (BMI) < 30



## Safety

Zero Loss Time Injury (LTI) & Zero Fatality



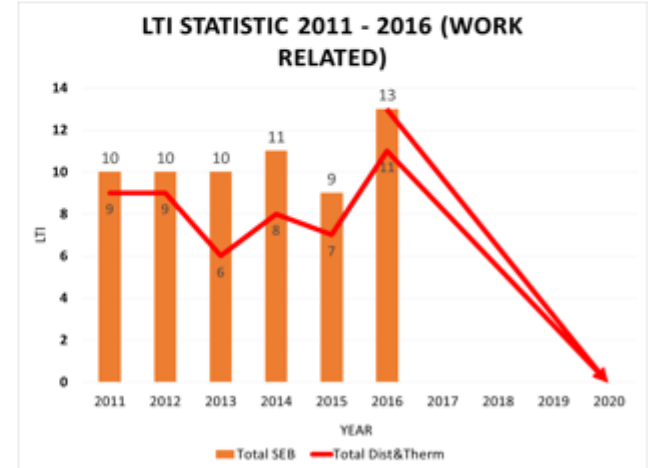
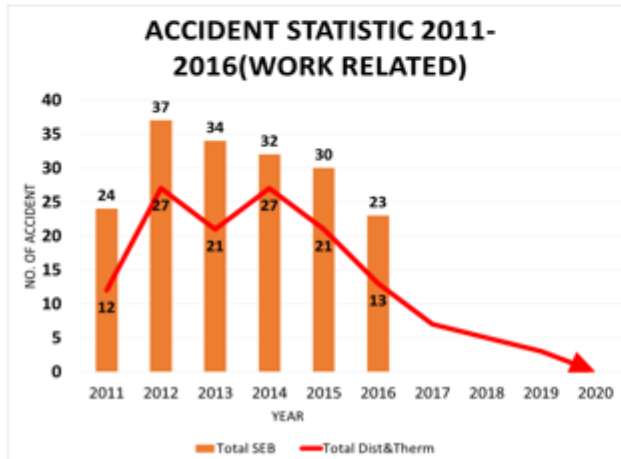
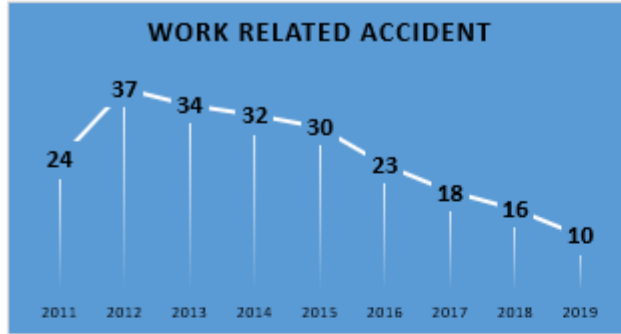
## Environment

100% Compliance with Regulatory Laws

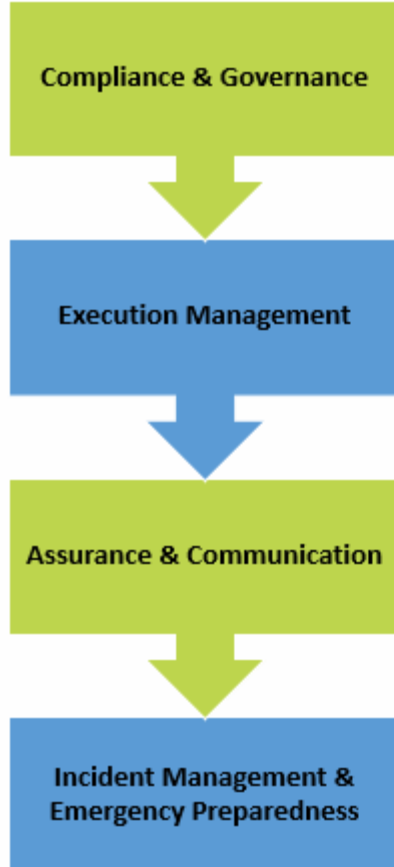
Everybody  
Goes Home  
**Safely**

# Safety

## Zero LTI and Fatality



# HSE Management Plan



- Establish Local Regulatory Requirements (Legal Register)
- Develop Mandatory Control Framework
- Project HSSE Rules & Policy  
(e.g. Life-Saving Rules, Stop Work Policy & etc)
- Fitness to work program
- Training & Competency
- Pre-start work talk & Weekly Mass Toolbox Talk
- HIRADC / JMS / JSA Review
- HSSE Audit/Inspection Program
- Drug & Alcohol Test Program
- Tools & Equipment Inspection Program
- HSSE Culture Program
- HSSE Key Performance Indicators
- HSSE Communication (HSSE Alert / HSSE Flash)
- HSSE Campaign & Promotions
- HSSE Rewards and Recognitions Programs
- HSSE – MS & HSSE – MP Assurance
- Networking & Cooperation with Authorities
- Incident Management
- Communicate Incident Reporting Process Flow
- Emergency Response Readiness
- Establish Central Emergency Facilities
- Security Vetting Programs

## Sarawak Energy Life-Saving Rules



# Sarawak Energy Life-Saving Rules



A set of mandatory safety rules for all employees of Sarawak Energy, its subsidiaries and its contractors to comply whenever on Sarawak Energy's premises or outside the company's premises when carrying out Sarawak Energy's business.

## Sarawak Energy Life Saving Rules (SE LSR) Roadmap



# Contractor Transformation Programme



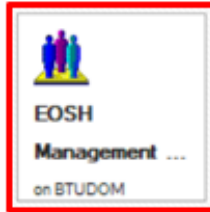
PROCESS OF CONTRACTOR TRANSFORMATION PROGRAMME











Workspace LN

**EOSH Management System**

- Policy, Manual & Procedure
- Work Instruction
- Documentation
- Training Evaluation
  - By Staff Name
  - By Status
- Record
- External Document
- Environmental Management System

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Stn.

**EOSH MANAGEMENT SYSTEM :: EXTERNAL DOCUMENT**

- INTEGRATED QUALITY MANAGEMENT
  - Standard
    - ISO 14001:2015 Training Notes
- SAFETY DIVISION
  - Code of Practice
  - FMA 1967, Regulations and Rules
  - OSHA 1994, Regulations, Orders & Guidelines
  - Other Acts and Regulations
  - Standards

External Document

## EOSH Management System (MS) ISO 14001 & 45001



**EOSH Management System**

- Policy, Manual & Procedure
- Work Instruction
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  - By Staff Name
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**EOSH MANAGEMENT SYSTEM MANUAL & PROCEDURE**

- INTEGRATED QUALITY MANAGEMENT
  - Occupational Safety and Health Policy And Environmental Policy
  - Occupational Safety and Health Policy And Environmental Policy
- EOSH Manual & Procedure
  - EOSH Manual
  - EOSH Procedure
- EOSH Manual and Procedures for Regional Office
  - QM-RO-ESH-01-00 (EOSH Manual)
  - QP-RO-ESH-01-00 (EOSH Policy)
  - QP-RO-ESH-02-00 (EASH and HIRADC)
  - QP-RO-ESH-03-00 (Compliance Obligations)
  - QP-RO-ESH-04-00 (Objective, Target & Programme)
  - QP-RO-ESH-05-00 (Training)
  - QP-RO-ESH-06-00 (Communication & Participation and Consultation)
  - QP-RO-ESH-07-00 (Operational Control)
  - QP-RO-ESH-08-00 (Chemical Control)
  - QP-RO-ESH-09-00 (Waste Management)
  - QP-RO-ESH-10-00 (Control of Contractor)
  - QP-RO-ESH-11-00 (PPE Control)
  - QP-RO-ESH-12-00 (Emergency Response Plan)
  - QP-RO-ESH-13-00 (Monitoring & Measurement)
  - QP-RO-ESH-15-00 (Internal Audit)
  - QP-RO-ESH-16-00 (Corrective and Preventive Action)
  - QP-RO-ESH-17-00 (Management Review)
  - QP-RO-ESH-18-00 (Control of Record)
  - QP-RO-ESH-19-00 (Control of Documents)
  - QP-RO-ESH-20-00 (Control of External Documents)

EOSH Manual & Procedure

# Communication – Staff & Contractor

## HSSE “The Footprint” Newsletter



## SAFETY ALERT



## HSSE PORTAL – 1SEB

## LTIFR / POLICY / LEGAL REQUIREMENT / SELSR / HIRADC / SAFETY DATA SHEETS / PROCEDURE & ETC



Brand & Visual  
Identity



HSSE



Sustainability



SEPS



N2S



Corporate  
Events



Web Portals  
& Apps





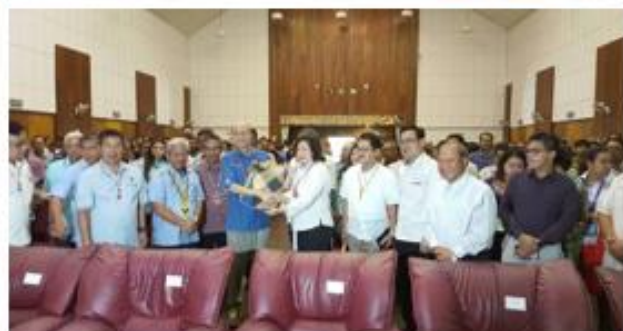
## COMMUNICATION, PROMOTION, EXHIBITION & TALK PROGRAMME

### Public Announcement (Safety Awareness) via Radio Aid

*"Sarawak Energy, HSSE Department (Occupational Health & Safety Division) has entered into collaboration with local radio station RTM and Cats FM on a Public Announcement Program.*

*The objectives of this program are to disseminate information on safety awareness and provide meaningful advice on electricity safety rules.*

*It will serve as another platform for Sarawak Energy to contribute towards public awareness on electrical safety and indirectly bring awareness to the public." - Local Newspaper.*



## COMMUNICATION, PROMOTION, EXHIBITION & TALK PROGRAMME

Electrical Safety Awareness talk to Community Leaders & Publics (Longhouses / Villages)





**COMMUNICATION, PROMOTION, EXHIBITION & TALK PROGRAMME**

**Electrical Safety Awareness Talk to Primary & Secondary Schools  
throughout Sarawak**



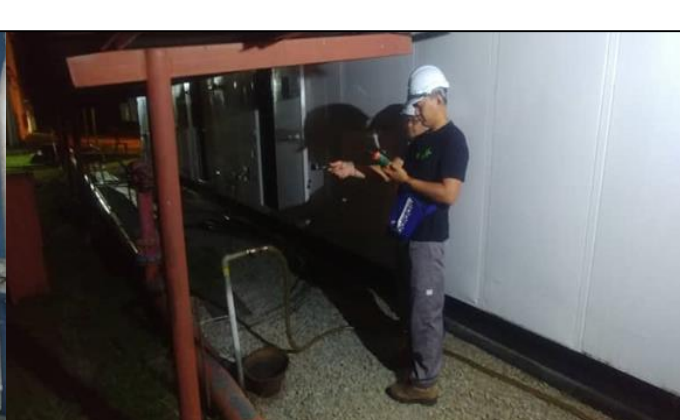
## COMMUNICATION, PROMOTION, EXHIBITION & TALK PROGRAMME

Electrical Safety Awareness Talks to SEB Annual Contractors, Pan Borneo Contractors, Government Agencies, Telekom & Oil Palm Estates





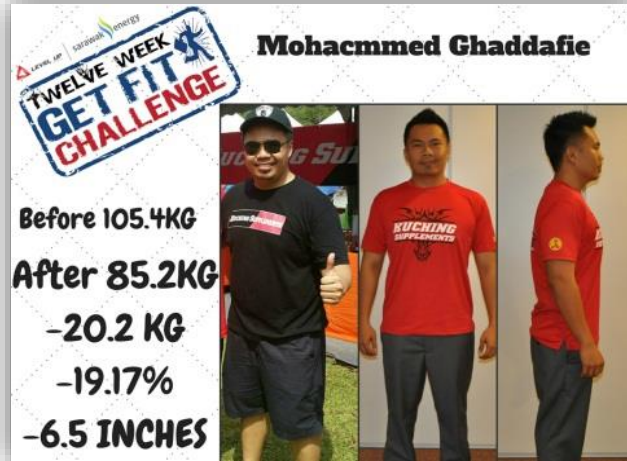
## HEALTH & INDUSTRIAL HYGIENE PROGRAMME



# HEALTH & INDUSTRIAL HYGIENE PROGRAMME

Body Mass Index (BMI)

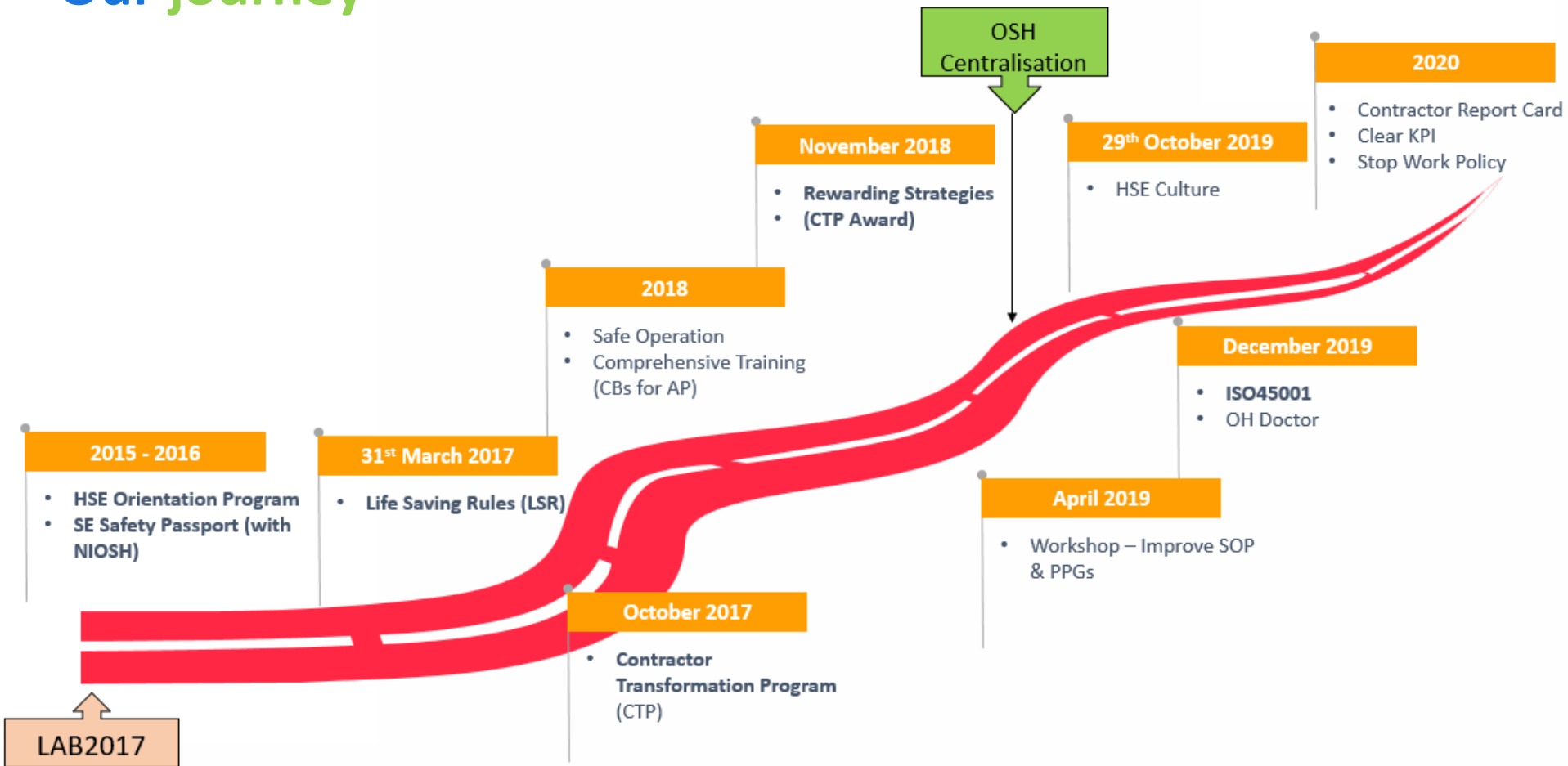
75% . 85% . 95% <30 2020



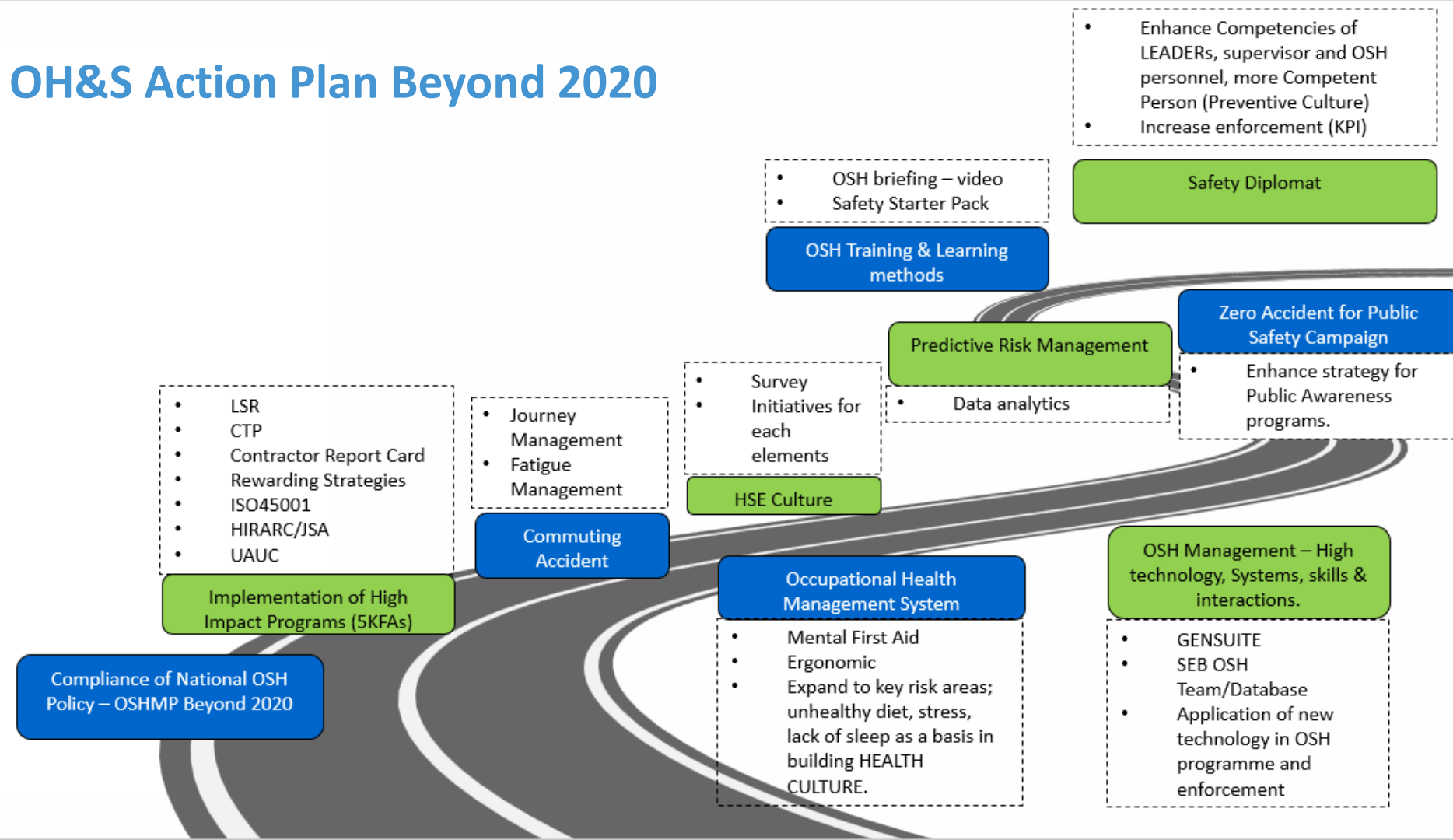
HEALTH Wellness Program



# Our journey



# OH&S Action Plan Beyond 2020







Sustainability

Decarbonisation

Affordability



# Power

The future of  
**Sarawak**

After decades of experience we're still finding new ways to do better. As we're heading towards a new phase of growth, we've never forgotten our biggest commitment. To help provide a brighter future for Sarawak.

Thank You

Q & A