SUSTAINABLE DEVELOPMENT GOALS



BY:

FARAH WAHIDA BINTI MOHD RAZELAN VTS CONSULTANTS & ENGINEERING (M) SDN. BHD.

Email: farah@vts.net.my / consult@vts.net.my

Tel.: +603-21817653 / 7204

HP: +6012-3882394

PRESENTATON OUTLINE

- 1. Introduction to Sustainable Development and Sustainable Development Goals
- 2. Environmental, Social, Governance (ESG) and SDG
- 3.SDG Implementation Supports
- 4. Overview of 17 SGDs
- 5.SDGs Implementation Framework







Development that meets the needs of the present without compromising the ability of future generations to meet their own needs

(Brundtland Report, 1987)



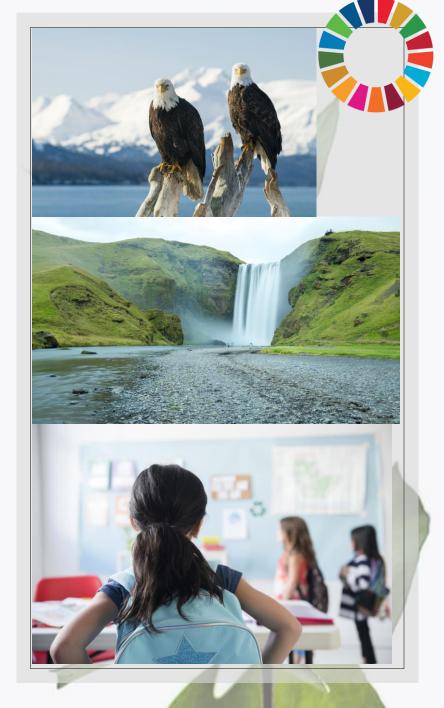
 The Sustainable Development Goals (SDGs), also known as the Global Goals, were adopted by the United Nations in 2015 as a universal call of action to end poverty, protect the planet, and ensure that by 2030 all people enjoy peace and prosperity

SUSTAINABLE DEVELOPMENT GOALS

o Integrated goals, being a universal call of action to:

- 1. END POVERTY
- 2. PROTECT PLANET
- 3. ENSURE PEOPLE ENJOY PEACE AND PROSPERITY





17 SDGs





































 Framework used to assess organization's business practices and performance on various sustainability and ethical issues

 Provides mechanisms to measure business risks and opportunities in the related areas





SDG & ESG

• SDG:

- 17 Goals for attaining the ideal of a sustainable society by 2030
- Applies to everyone, including individuals and not just countries and companies
- SGDs are targets and goals

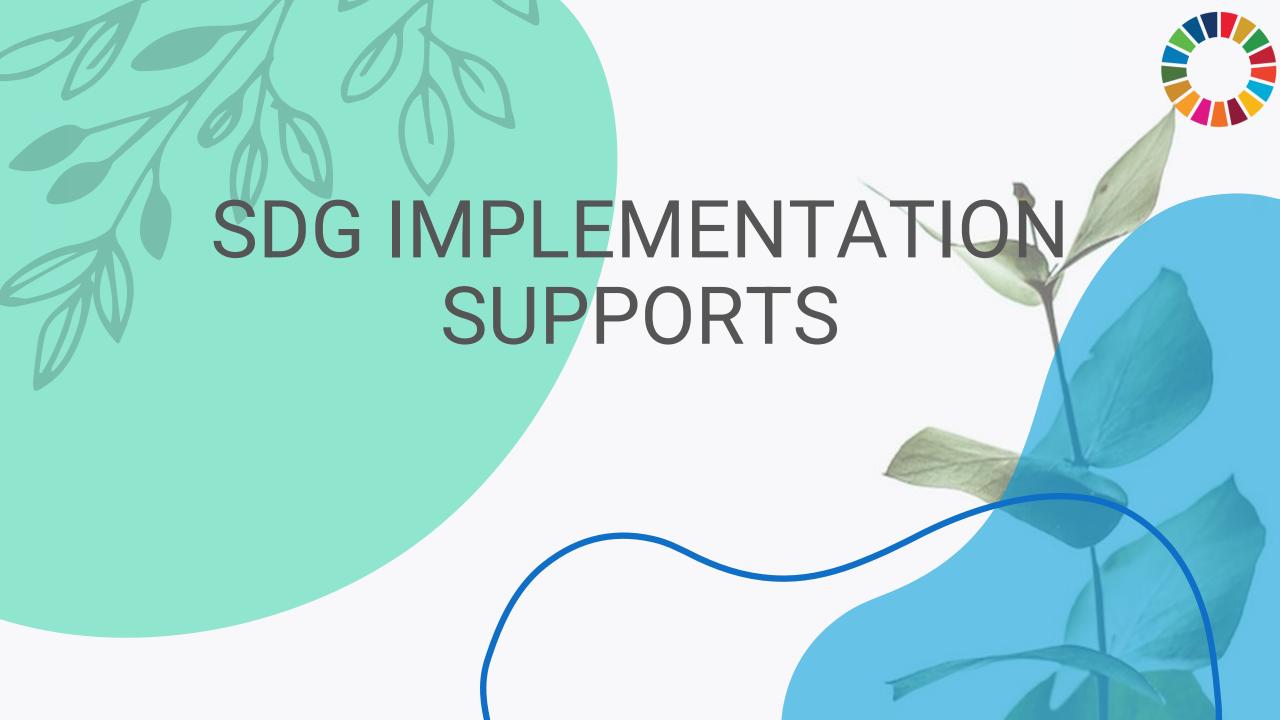
• ESG:

- A concept that emphasizes the importance of 3 aspects: "Environment", "Social" and "Governance" for corporate management and growth
- Applies primarily to business community and companies

BENEFITS OF ADOPTING SDG

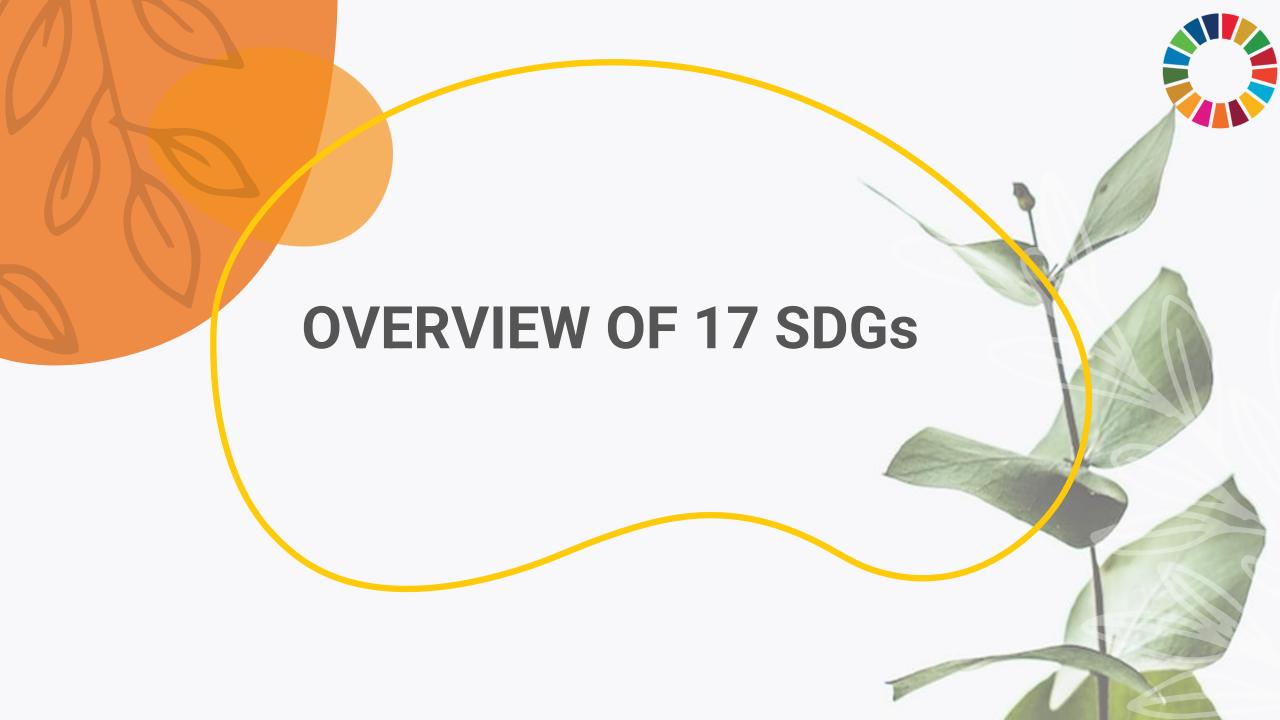
- 1. Manage Regulatory Risks
- 2. Attract & Retain Customers
- 3. Innovative & Differentiated from Competitors
- 4. Build Resilient Supply Chain
- 5. Prepare for Future
- 6. Improve Financial Performance





SUPPORTS & INCENTIVES FOR SDG IMPLEMENTATION

- 1. i-ESG Framework Ministry of Investment, Trade and Industry
- 2. MyHIJAU Program Ministry of Natural Resources, Environment and Climate Change
- 3. Green Technology Financing Scheme Malaysia Green Technology Certificate
- 4. Renewable Energy Incentives Malaysia Green Technology Certificate
- 5. Malaysia Renewable Energy Certificate (MREC) and Green Electricity Tariff (GET) Energy Commission
- 6. Green Investment Tax Allowance (GITA)
- 7. Green Investment Tax Exemption (GITE)





GOAL 1 - NO POVERTY

• END POVERTY IN ALL ITS FORMS
EVERYWHERE





GOAL 1: NO POVERTY





- EXTREME POVERTY: Condition characterized by severe deprivation of basic human needs, including food, safe drinking water, sanitation facilities, health, shelter, education and information (Income less than USD 1.25 per day)
- 685 million people lived in extreme poverty in 2022

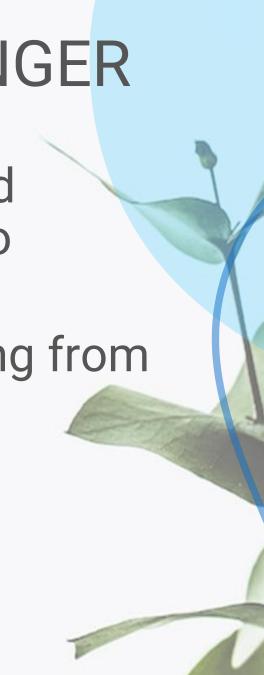


GOAL 2: ZERO HUNGER

 30% of world population were food insecure, lacking regular access to adequate food

• 22% of children < 5 yrs old suffering from stunting

** Statistic in year 2022



SUSTAINABLE AGRICULTURE

- More productive and less wasteful agriculture system
- Input for food production:
- 1. LAND
- 2. HEALTHY SOILS
- 3. WATER
- 4. PLANT GENETIC RESOURCES
- 5. PEST MANAGEMENT







- 1. Management of communicable diseases (i.e: HIV, Tuberculosis, Hepatitis)
- 2. Mental health protection
- 3. Alcohol and drug abuse
- 4. Prevention of road traffic accidents and injuries
- 5. Access to quality essential healthcare services
- 6. Reduce number of death and illness related to hazardous chemicals and air, water and soil contaminants
- 7. Control of tobacco use



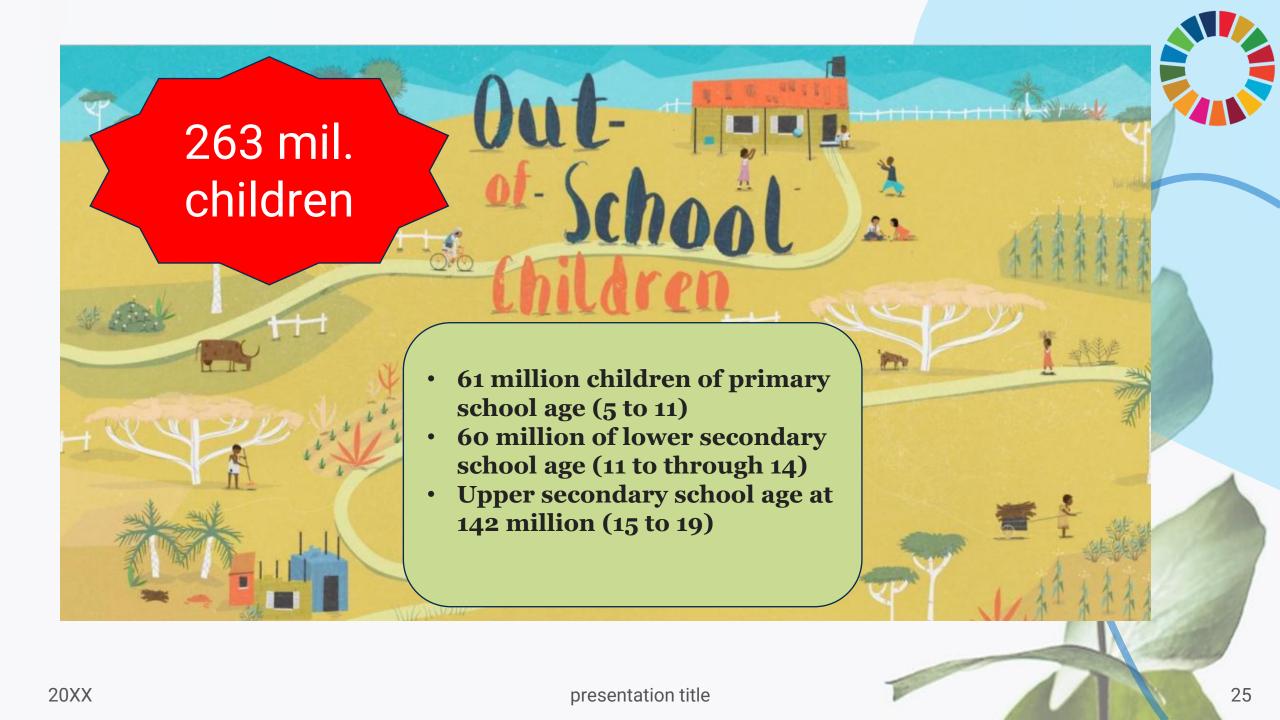
GOAL 4: QUALITY EDUCATION







• EDUCATION GIVES PEOPLE THE KNOWLEDGE AND SKILLS THEY NEED TO STAY HEALTHY, GET JOBS AND FOSTER TOLERANCE



COMPETENCY DEVELOPMENT PROGRAM

- Competency Assessment
- Training Needs Analysis
- Annual Training Plan
- Training Effectiveness Analysis
- Continuous Education Programs









 Achieve gender equality and empower all women and girls



MAIN GENDER EQUALITY ISSUES

- Lack of access to decent work
- Occupational segregation
- Gender wage gaps
- Denied access to basic education and health care
- Victims of violence and discrimination
- Under-represented in political and economic decision-making process





WATER & SANITATION CRISIS

2.2 billion people lack access to safely managed drinking water (28% of world population)

> 4.2 billion people lack of safely managed sanitation (53% of world population)

Only 0.5% of water on earth is useable and available freshwater





WATER QUALITY IMPROVEMENT

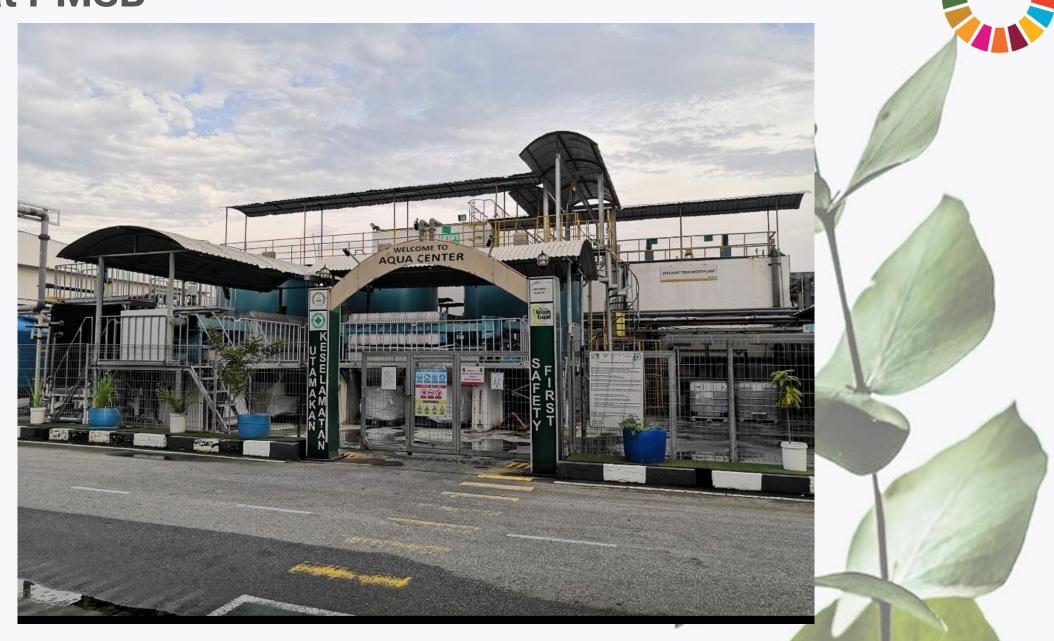
AND SANITATIO

- Ways to improve water quality:
- 1. Prevent Pollution
- 2. Eliminate dumping
- 3. Minimize release of hazardous chemicals
- 4. Prevent release of untreated wastewater
- 5. Increase recycling and safe reuse of water



- ∘ As per **Environmental Quality Act 1974**:
 - 1. Sewage and Industrial Effluent shall be treated
 - 2. Monitoring of discharge as specified interval
 - 3. Compliance to discharge Standard (Standard A or B)

IETS at PMSB



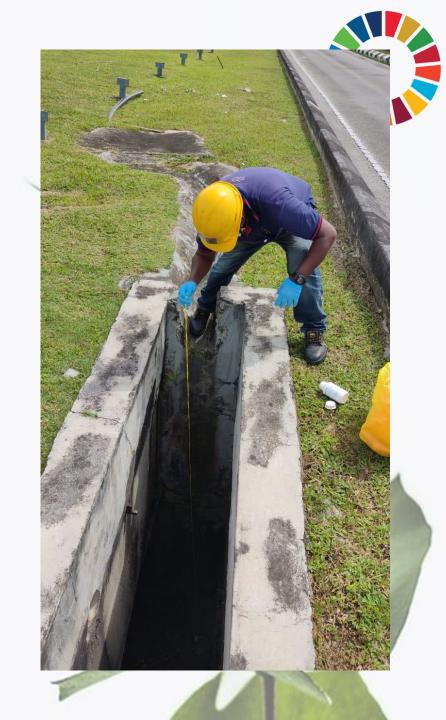
IETS at PGMSB



Water sampling at PMSB







Water sampling at PGMSB









GOAL 7: AFFORDABLE AND CLEAN ENERGY



RENEWABLE ENERGY



 Effort should be focused on utilization of renewable energy inclusive of:

- 1. Hydropower
- 2. Solar
- 3. Wind
- 4. Geothermal

RE PLANT IN MALAYSIA - HYDRO



Sultan Ismail Petra Hydro Generating Facility, Pergau

Size: 600 MW

Location: Kelantan

Commissioning Year: 1997



Stesen Janaelektrik Sultan Mahmud, Kenyir

Size: 400 MW

Location: Terengganu

Commissioning Year: 1988



Stesen Janaelektrik Bakun Sarawak Capacity: 2400 MW

Start operating in 2011

RE PLANT IN MALAYSIA – HYDRO (Coming

Soon)

1. BALEH (SARAWAK) - 1285 MW, COMPLETION 2027

2. NEGGIRI (KELANTAN) - 300MW, COMPLETION 2027

3. LEBIR (KELANTAN) - 274 MW, COMPLETION 2025

4. SG. PADAS - 129 MW, COMPLETION 2028



RE PLANTS IN MALAYSIA - SOLAR





RE Gebeng Sdn Bhd

Size: 30 MW

Location: Pahang

Commissioning Year: 2020



Gading Kencana Development Sdn Bhd

Size: 30 MW

Location: Perak

Commissioning Year: 2018

MREC & GET

 MREC: Issued when 1MWh of electricity is generated and delivered to electricity grid from RE source

GET: Green Electricity Tariff



PICTURE CO2 REDUCTION at PMSB

INNOVATIVE - Solar System

Solar Panel at RND Track





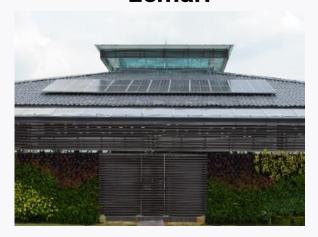




AFFORDABLE AND

CLEAN ENERGY

Lemari

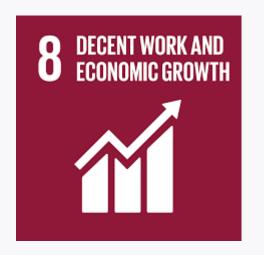


K-Cabin









GOAL 8: DECENT WORK AND ECONOMIC GROWTH

DECENT WORK

- PRODUCTIVE
- FAIR INCOME
- WORKPLACE SECURITY
- SOCIAL PROTECTION FOR FAMILIES

 BETTER PROSPECT FOR PERSONAL DEVELOPMENT & SOCIAL INTEGRATION



OCCUPATIONAL HEALTH & SAFETY PROTECTION

- Protect worker rights
- Promote safe and secure working environments



GOAL 9: INDUSTRY, INNOVATION AND INFRASTRUCTURE



INDUSTRIALIZATION

"Industrialization is a driver of development"

Industry increases productivity, job creation and generates income, thereby contributing to poverty eradication as well as providing opportunities for social inclusion, including gender equality, empowering women and girls and creating decent employment for the youth



GREEN ECONOMY

- Green economy is an important tool for sustainable development
- Reduced carbon emissions and pollution
- Enhanced energy and resource efficiency
- Prevention of the loss of biodiversity and ecosystem services



GOAL 10: REDUCED INEQUALITIES



GOAL 10 - REDUCED INEQUALITIES



 Reduce inequality within and among countries



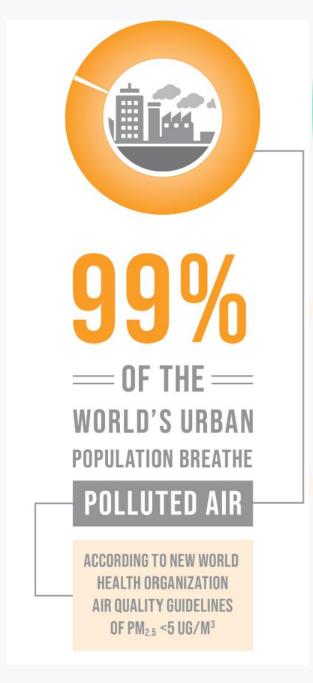




Make cities and human settlements inclusive, safe, resilient and sustainable

"LEAVING NO ONE BEHIND"











SUSTAINABLE CONSUMPTION AND PRODUCTION





- Sustainable management and efficient use of natural resources
- Management of food waste
- Reduce release to air, water and soil
- Sustainable procurement process
- ∘ 3R Program
- Environmentally sound chemical management program, including hazardous waste management

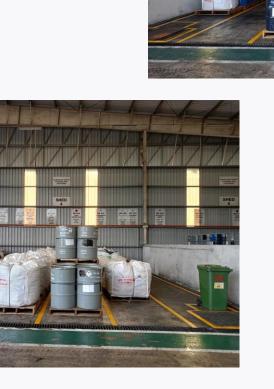


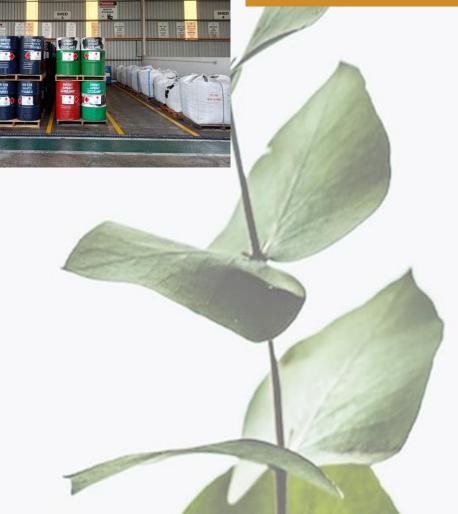
Waste Management (Point C) at PMSB













Waste Management at PGMSB

12 RESPONSIBLE CONSUMPTION AND PRODUCTION









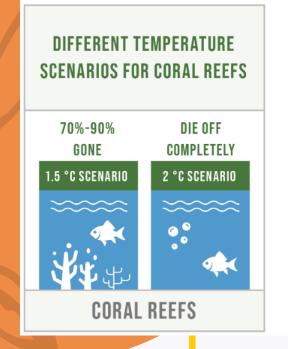
AL 13 - CLIMATE ACTION

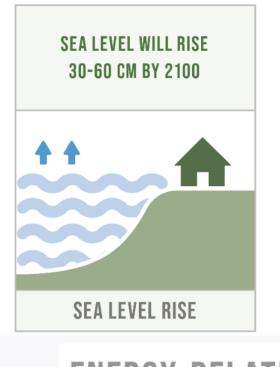
Take urgent action to combat climate change and its impacts

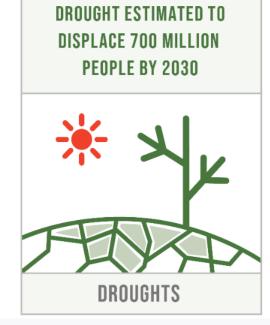
OUR CLIMATE IS HEATING RAPIDLY!

- ➤ The average global temperatures have increased by 1.2 degrees Celsius since 1880
- ➤ Concentration of atmospheric CO₂, the GHG that contributes more than 2/3 to global warming, is at its highest level ever
- Number of weather, climate and water-related disasters has increased by a factor of five over the past 50 years

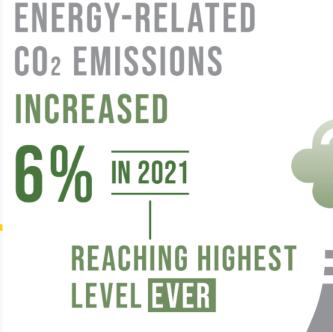










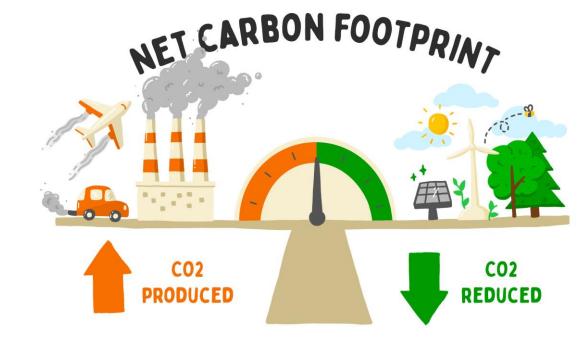




CARBON NEUTRAL

- State of Net-Zero Carbon Emissions
- Achievement through:
 - 1. Ending Emission
 - 2. Carbon Offsetting





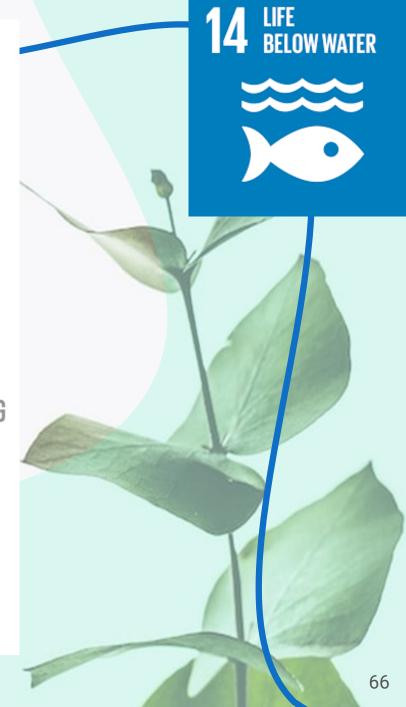


GOAL 14: LIFE BELOW WATER











MICROPLASTIC POLLUTION

- Microplastic pollution detected in human blood
- Attached to RBC and reduce ability to transport oxygen







GOAL 15: LIFE ON LAND



LIFE ON LAND

10 million hectares of forest destroyed annually

 40,000 species of animals on land - risk of extinction

Support afforestation and reforestation













Perodua komited pulih alam semula jadi

Oleh Lizam Ridzuan lizamridzuan@hmetro.com.my







GOAL 16: PEACE, JUSTICE AND STRONG INSTITUTIONS









PROTECTION OF CHILDREN AGAINST VIOLENCE



One child dies as a result of violence every five minutes

- One billion children globally experience some form of emotional, physical or sexual violence every year
- 25-50 per cent of children have been victims of bullying (Peer on Peer Violence)
- Growth of cyberbullying



GOAL 16: PEACE, JUSTICE AND STRONG INSTITUTIONS



 Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels



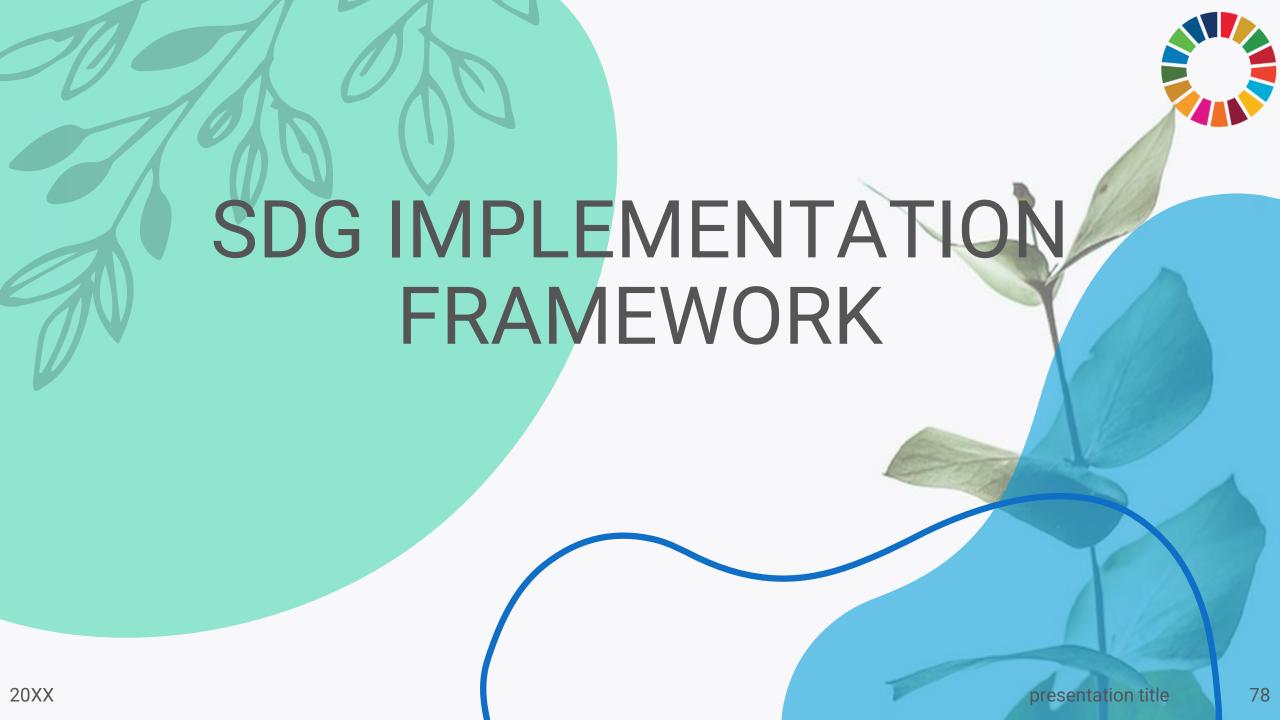


GLOBAL PARTNERSHIP





To build a better world, we need to be supportive, empathetic, inventive, passionate, and above all, cooperative.



SDG IMPLEMENTATION FRAMEWORK



STEP 1:

UNDERSTANDING & AWARENESS



STEP 2:

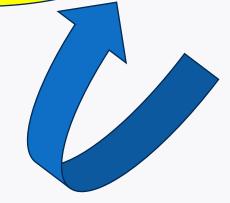
POLICY & TARGET SETTING



STEP 3:

PROGRAM IMPLEMENTATION





STEP 5:

SUSTAINABILITY REPORT PREPARATION



STEP 4:

MONITORING & DATA COLLECTION