

COORDINATING MINISTRY FOR MARITIME AFFAIRS REPUBLIC OF INDONESIA

Improving Solid Waste Management Capacity as a tool for combating Marine Plastic Debris Issue

NATIONAL CONFERENCE ON WASTE TO ENERGY: "Best International Practices in Waste Management and Waste to Energy Implementation" Jakarta, 11 – 12 September 2017

> Safri Burhanuddin Deputy Minister for Human Resources, Science and Technology, and Maritime Culture

> > Jakarta, 11 September 2017

INDONESIA

- 1. Largest archipelagic state in the world, with more than 17.000 islands
- 2. 6 million square km of waters, more than 91.000 km of coastal lines
- 3. Three time zones
- 4. 10 neighboring countries
- 5. Home of 23 % of global mangroves
- 6. Home of 30.000 km² Seagrass
- 7. Home of 75% of all known marine life
- 8. 4 Critical Choke Points for global navigations



CHALLENGES



- 1. Fight Poachers
- 2. Armed Robbers at Sea,
- 3. Hijackers at Sea
- 4. Slavery at Sea,
- 5. People Trafficking at Sea,
- 6. Mitigating Climate Change Effect,
- 7. Governmental Services to Remote Islands
- 8. Health of The Ocean

C H A L L E N G E S : Health of the Ocean

OIL SPILL

SLUDGE OIL

OIL POLLUTION FROM FIXED PLATFORM

MARINE LITTER

Δ



MARINE PLASTIC DEBRIS - CONSEQUENCIES





TOURISM : MARINE PLASTIC DEBRIS, INVADING MORE AND MORE TOURISM AND COASTAL AREAS



ENVIRONMENT AND MARINE LIFE : MILLIONS OF MARINE LIFE THREATENED BY MARINE PLASTIC DEBRIS

6

HUMAN HEALTH : IT WAS FOUND THAT MORE THAN A THIRD OF SAMPLED COMMERCIAL FISH CONSUMED PLASTIC OR MICROPLASTICS





COMMITMENT



Indonesia is to reduce wastes through **reduce-reuse-recycle** up to 30% until 2025, while targeting reduction of marine plastic debris as much as

70% by 2025

President Joko Widodo, at the Leaders Retreat, G20 Summit, Hamburg-Germany, Friday July 7th, 2017







1. PROMOTING BEHAVIORAL CHANGE



- EDUCATING YOUNG PEOPLE
- INCREASING STAKEHOLDER AWARENESS
- INTER GOVERMENTAL COLLABORATION
- CROSS SECTOR COLLABORATION
- CHALLENGING OF ELIMINATING PLASTIC WASTE

CAMPAIGN ON COMBATTING MARINE PLASTIC DEBRIS









Example Case – Cilincing Canal Clean Up, 2017





3. REDUCING SEA-BASED LEAKAGE



4. LAW ENFORCEMENT, FUNDING MECHANISM, R & D, INSTITUTIONAL EMPOWERMENT

- INTRODUCING PAID PLASTIC BAG
- ENCOURAGING MANUFACTURERS TO USE RECYCLED PLASTICS AS INPUT MATERIALS AS MUCH AS POSSIBLE
- PRODUCING MORE BIODEGRADABLE PLASTICS FROM CASSAVA, SEAWEED AND PALM OIL
- DEVELOPING PALSTIC-TAR ROAD (started June 2017)
- WASTE TO ENERGY SOLUTION











5 STRATEGIES OF NATIONAL PLAN OF ACTION

- (a) local authorities to take care of the waste management properly and reduce the amount of plastic waste leaking to the ocean.
- (b) national level Indonesia is promoting paradigm change within the society towards plastic waste and to respect the coastal areas through education curriculum and campaign, waste to energy, paid plastic bag, plastic debris as asphalt mix for "plastic-tar road",
- (c) international level Indonesia has been working with the World Bank, some donors and organize East Asia Summit Conference on marine plastic debris, on 6-7 September 2017 in Denpasar BALI, while also had executed discussions on this matter under the Indian Ocean Rim Association.
- (d) industrial sector designed to encourage these manufacturers to use recycled plastics as input materials as much as possible, while at the same time producing more biodegradable plastics.
- (e) involvement of **academics and community service organization (CSO)** for new and efficient technologies to cope with the problem, such as recycling technologies, and waste for energy and so on into practice.





