



DEVELOPMENT OF GREEN INDUSTRY IN INDONESIA THROUGH REDUCE-REUSE-RECYCLE CONCEPT

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REGULATION (1)



Law number 3/2014 about Industry

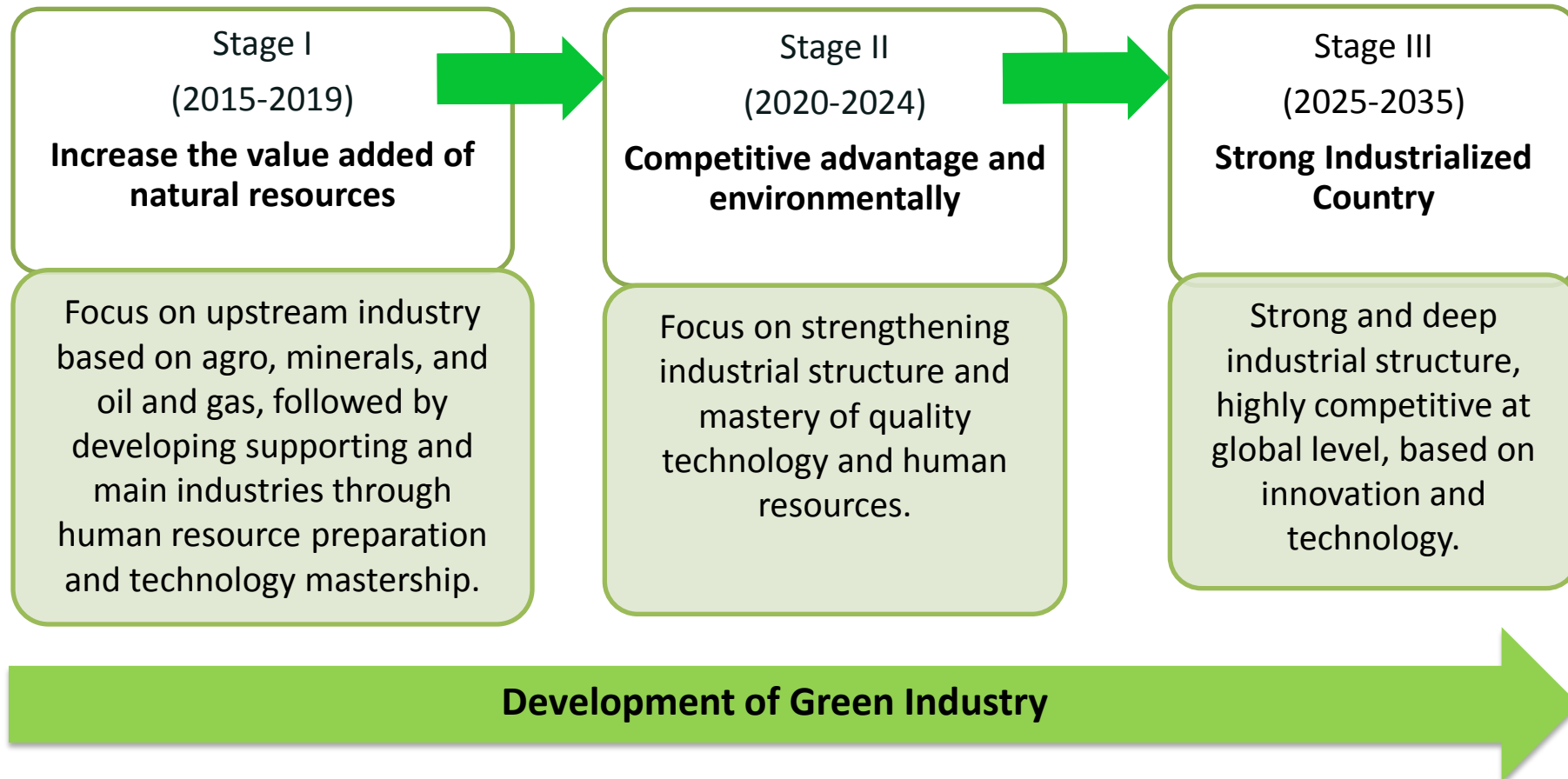
“Industrial is organized with the aim of realizing an industry that is self-reliant, competitive, and advanced, as well as the **Green Industry**”

“Manufactures and Industrial Estates have to utilize natural resources **efficiently, environmentally, and sustainable.**”

“Utilization of natural resources environmentally and sustainable are done through **reduce, reuse, recycle, and recovery.**”

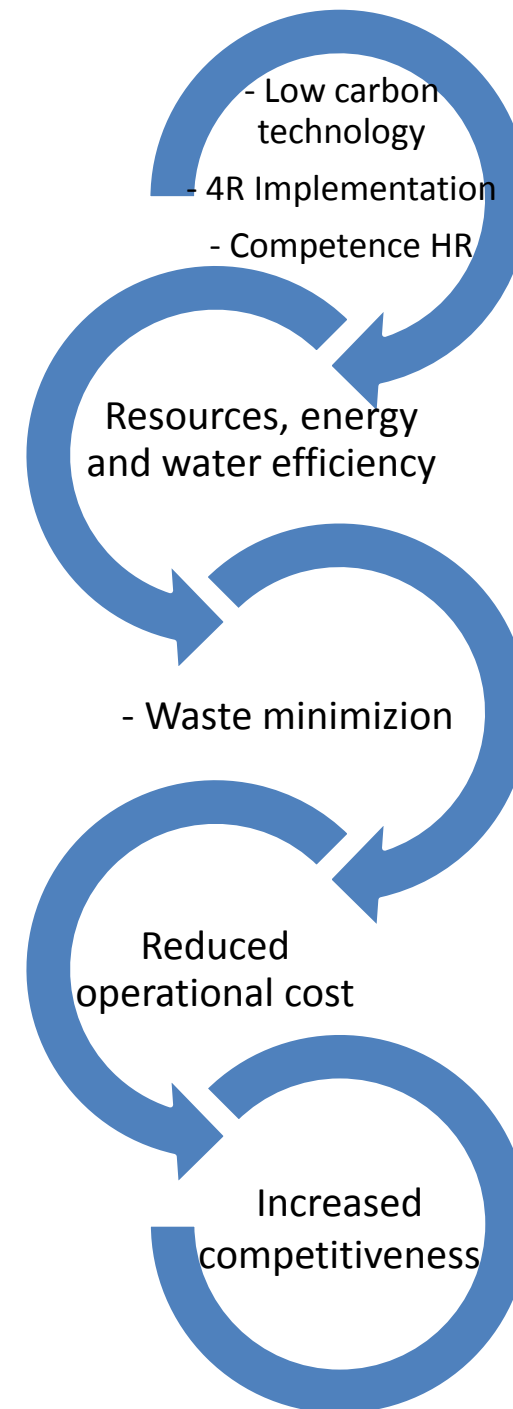
REGULATION (2)

Master Plan of National Industrial Development 2015-2035



Why Green Industry?

By implementing the green industry principle, the industrial company will be able to improve its competitiveness and contribute to sustainable development.



GREEN INDUSTRY DEVELOPMENT STRATEGY

*Greening of Existing
Industries*



through

*Creation of New
Green Industries*

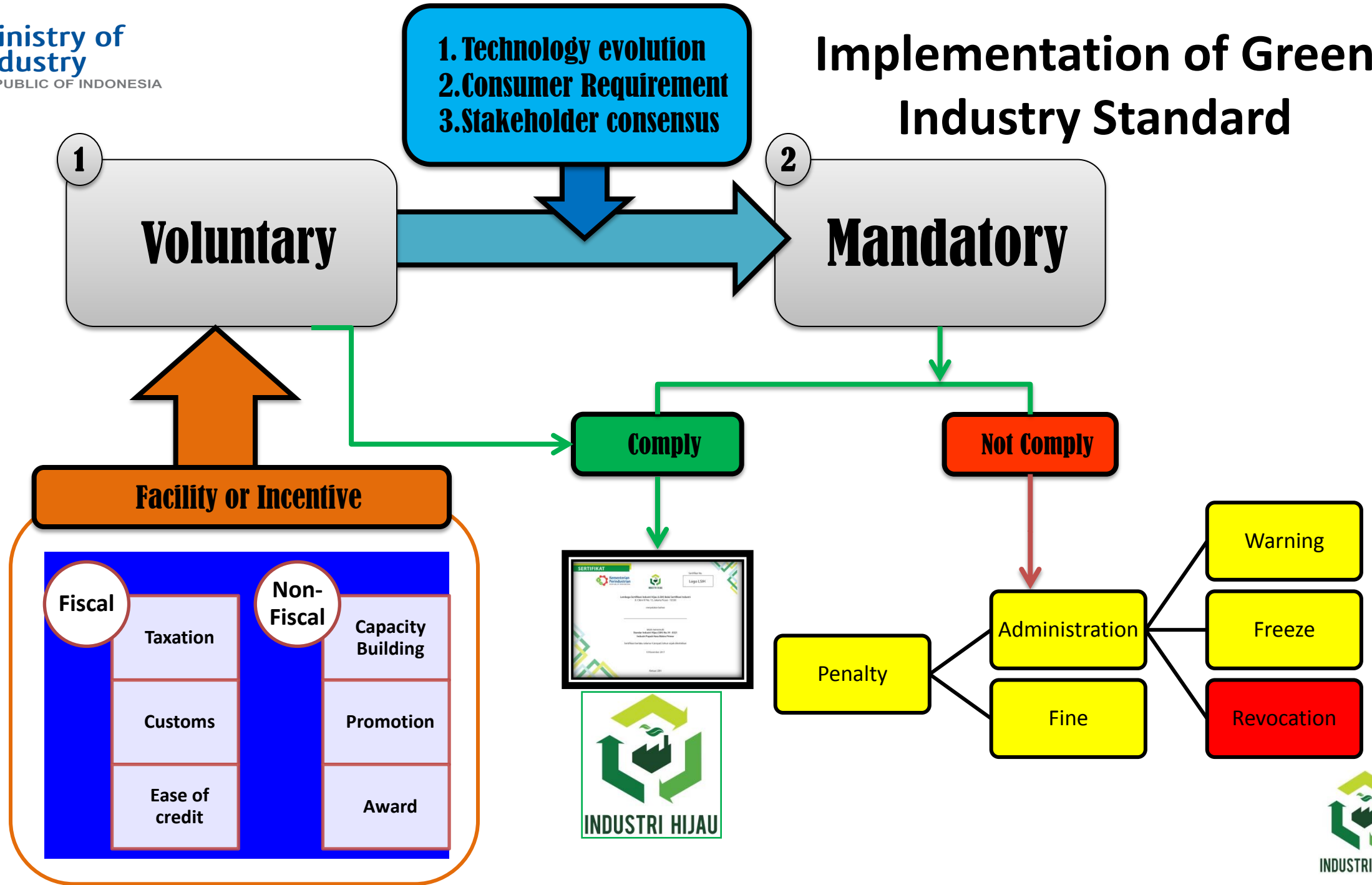
**GREEN INDUSTRY
STANDARDS**

GREEN INDUSTRY CERTIFICATION

is a conformity assessment related to the issuance of the Green Industry Certificate to manufactures whose production processes meet the Green Industry Standard.

Manufactures commit to implement industrial standards and continuous improvement in accordance with the principles of PDCA (Plan-Do-Check-Action)

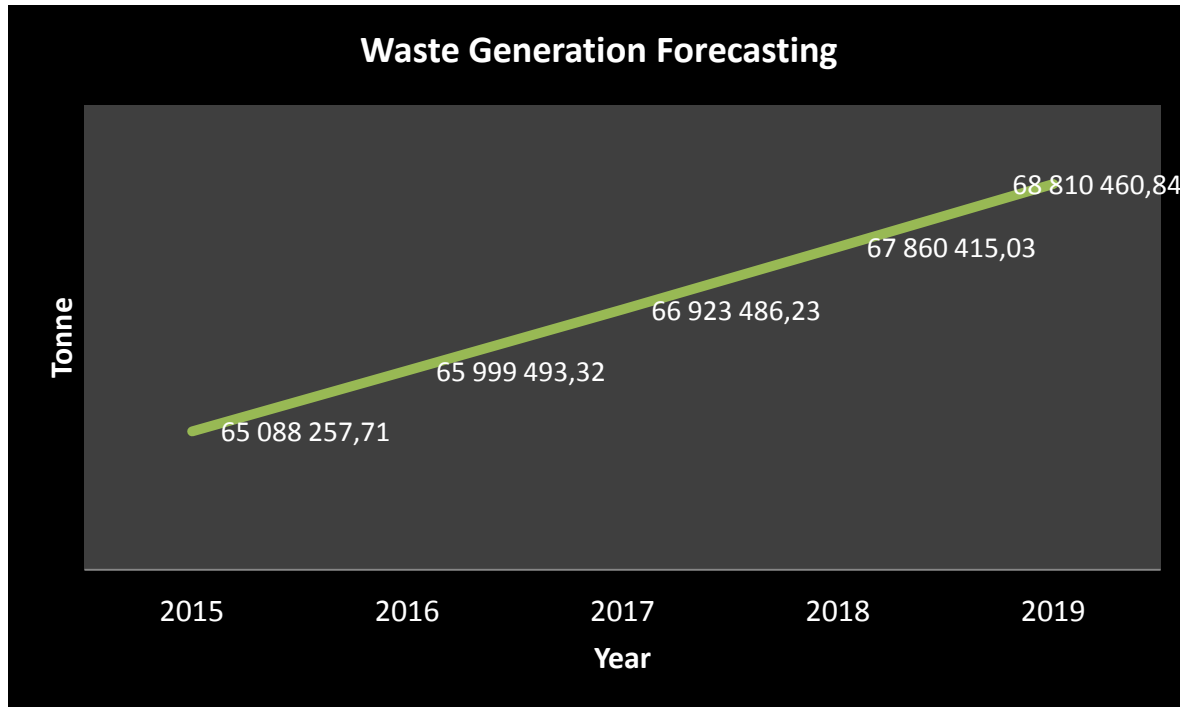
Implementation of Green Industry Standard



BUSINESS CYCLE OF RECYCLING



INDONESIA WASTE PROFILE



Source : MoEF, Republic of Indonesia

- a. Source of organic waste which come from household or market
- b. Source of anorganic waste which comes from plastic, metal, iron & steel, etc

COMPETITIVENESS STRENGTHENING



WASTE MANAGEMENT IN INDUSTRIAL SECTOR

- Material Efficiency
- Produce reuseable goods
- Produce recycable goods
- Produce degradable plastic
- Develop recycling industry
- Encourage waste to energy

Municipal Waste's End-of-Life Scenario

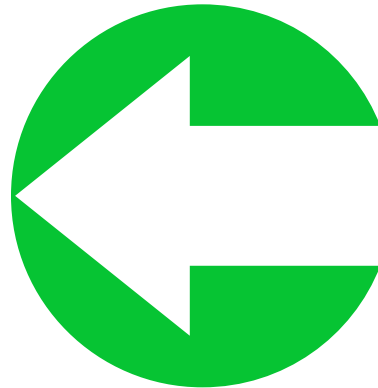
Have **much** landspases

Consumer

Do 3R and sort waste
Degradable plastic is a must

Government

Municipal waste management
Landfills and waste to energy



Industry

Use renewable material
Compostable plastics
Develop recycling industry

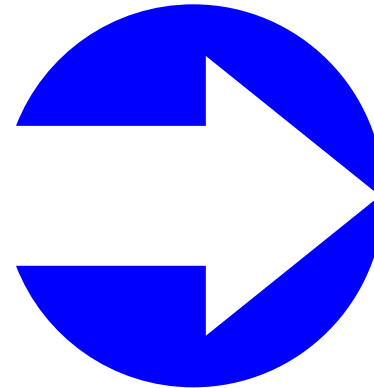
Have **not much** landspases

Consumer

Do 3R and sort waste
Degradable plastic is an option

Government

Municipal waste management
Incinerator and waste to energy



Industry

Use renewable material
Compostable plastics
Develop recycling industry

MINISTRY OF INDUSTRY PROGRAMME ON WASTE MANAGEMENT

- Industrial Sector Waste Management Roadmap. (2014)
- Guideline of Plastic Packaging Waste Management. (2015)
- Guideline of Electronic Waste Management. (2015)
- Research of Eco Packaging Implementation in Industrial Sector. (2016)
- Research of Refused Derived Fuel (RDF) Standard and Criteria. (2016)
- Guideline of Plastic Waste Recycling. (2017)
- Guideline of Refused Derived Fuel (RDF) Specification as Alternative Energy in Cement Industry (2017)

National Action Plan for Plastic Waste Management at Sea



Stakeholder Awareness Enhancement (12 actions)

Plastic Waste Management at Terrestrial Areas (19 actions)

Plastic Waste Management at Coastal and Sea Areas (11 actions)

Funding Mechanisms, Institutional Strengthening, Law Enforcement, and Research & Development (13 actions)



THANK YOU



**Ministry of
Industry**
REPUBLIC OF INDONESIA