



Green investment in Thailand and ASEAN: Opportunities and risks




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Green Investments in ASEAN: Driving Forces

- Pressure from trading partners
 - Green supply chain (i.e. renewable energy, eco-packaging)
 - Green/sustainability certification
- Obligations under international agreements and SDGs
 - Regulatory framework change
 - Carbon-Neutrality Target
- Availability of technologies and innovation driving cost-effective implementation
- Capital market opportunities: Green finance
- Active role of large domestic companies paying attention to sustainability
- Growing domestic pressure/awareness

INVESTMENT OPPORTUNITIES, JOB CREATION, AND GHG EMISSIONS REDUCTION BETWEEN 2020 AND 2030 IN 21 EMERGING MARKETS ACROSS KEY SECTORS FOR A GREEN RECOVERY

GREEN RECOVERY ACROSS KEY SECTORS	EUROPE (RUSSIA, SERBIA, TURKEY, UKRAINE)	EAST ASIA AND THE PACIFIC (CHINA, INDONESIA, PHILIPPINES, VIETNAM)	SOUTH ASIA (BANGLADESH, INDIA)	LATIN AMERICA AND THE CARIBBEAN (ARGENTINA, BRAZIL, COLOMBIA, MEXICO)	MIDDLE EAST AND NORTH AFRICA (EGYPT, JORDAN, MOROCCO)	SUB-SAHARAN AFRICA (CÔTE D'IVOIRE, KENYA, NIGERIA, SOUTH AFRICA)	TOTAL
 INVESTMENT OPPORTUNITY	\$0.6 TRILLION	\$5.1 TRILLION	\$2.8 TRILLION	\$1.3 TRILLION	\$0.2 TRILLION	\$0.3 TRILLION	\$10.2 TRILLION
 NEW DIRECT JOBS	16.8 MILLION	98.8 MILLION	53.2 MILLION	27.1 MILLION	4.2 MILLION	13.3 MILLION	213.4 MILLION
 GHG EMISSIONS REDUCTION (CO ₂ e)	324.7 MILLION TONS	2,010.7 MILLION TONS	861.6 MILLION TONS	351.5 MILLION TONS	111.7 MILLION TONS	153.8 MILLION TONS	4.0 BILLION TONS

SOURCE: IFC



SOME GREEN OPPORTUNITIES.....

- Renewable Energy
- Biomass/waste to energy
- Retrofit building for energy efficiency
- Green urban transport>>EV
- Bioenergy
- Biochemicals
- Climate-smart agriculture
- Waste management

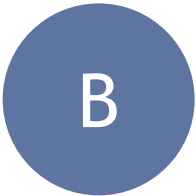


BCG -Thailand's National Agenda

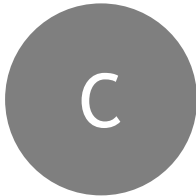


Adopting BCG Model for Sustainable Development of Thailand

BCG Economy Model



Bioeconomy



Circular Economy



Green Economy

Adding USD 135 billion to Thailand GDP within 5 years on regarding environmental sustainability

Thailand's 20-Year National Strategy

“To become a developed country with security, prosperity and sustainability in accordance with the Sufficiency Economy Philosophy”

Strategy 2: National Competitiveness, Economic Growth and Income Distribution

+

Strategy 5: Sustainability of National Biodiversity, Environmental Quality and Natural resources

Sustainable Development Goals





Incentivizing Investments in Greener Environment: Some examples in Thailand

1. The BOI is offering tax incentives to encourage...

- Renewable energy production and utilization
 - Renewable energy production projects
 - Companies installing renewable energy production for internal use (i.e. rooftop solar installations)
- Reduction of environmental impacts
 - Existing companies to achieve higher environmental standards
- Achieving international sustainability standards i.e. FSC, PEFC

2. The BOI prohibits the use of certain substances causing global warming i.e. refrigerants having high global warming potentials

Thailand Moving Towards Green Economy

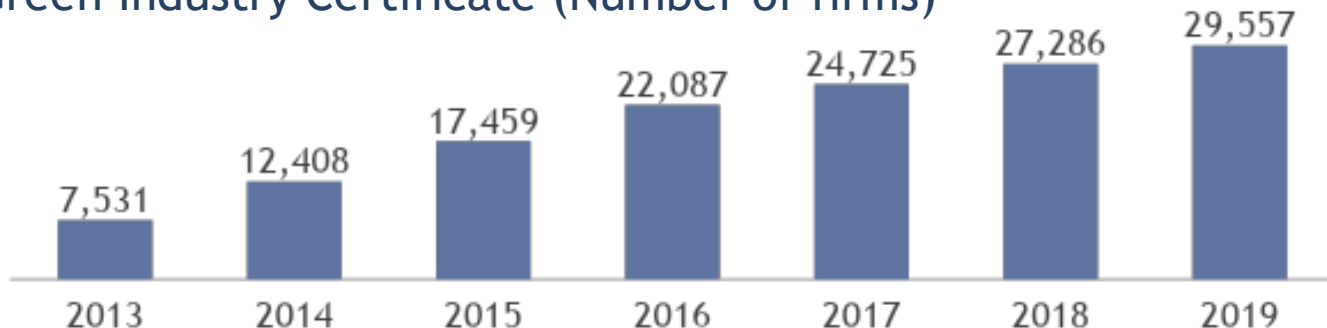
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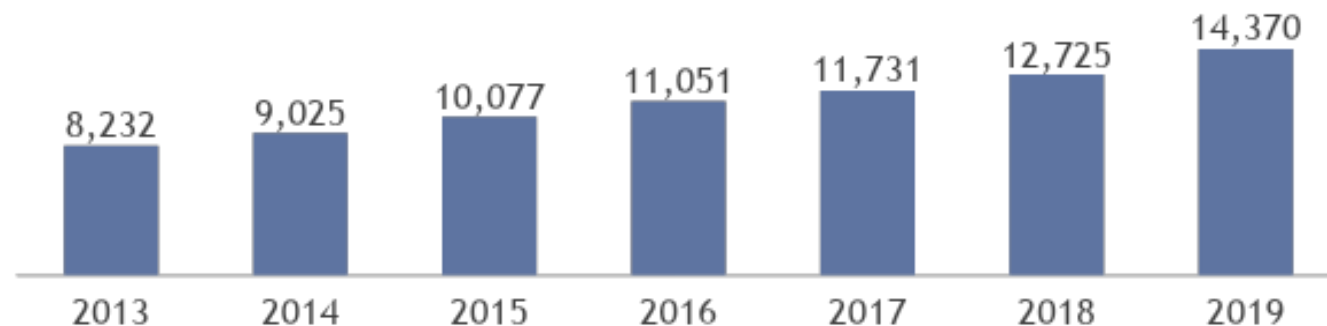
On the Global Green Economy Index (GGEI)

2nd ranked in ASEAN following Singapore

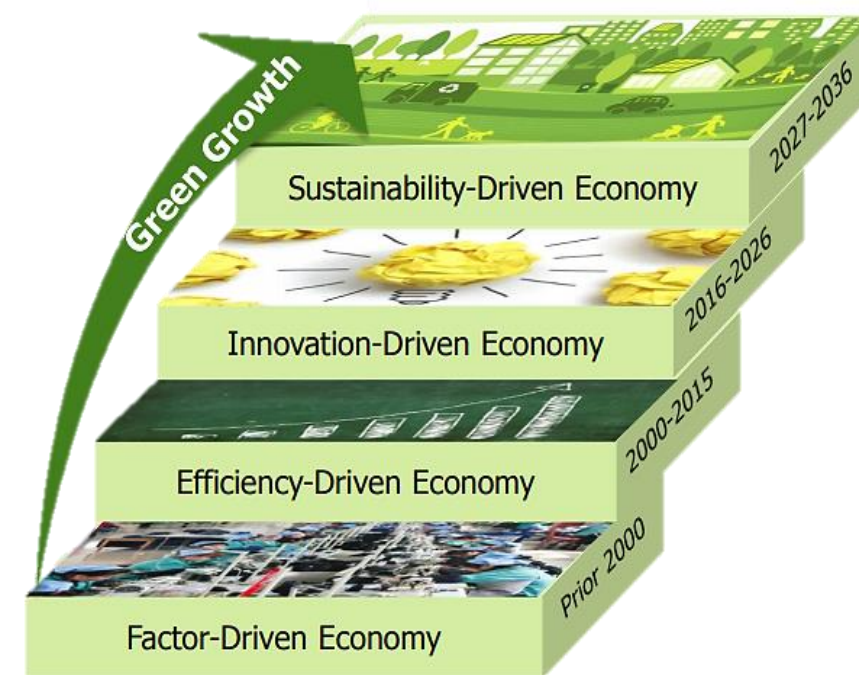
Green Industry Certificate (Number of firms)



Alternative Energy Consumption (Ktoe)



Vision towards Green Growth



- Low carbon society
- Stability of economic growth without environmental damage
- High income & reducing disparity



Thailand's Circular Plastic Economy

Roadmap on Plastic Waste Management 2018-2030

Objective: To reduce at least 50% of Thailand plastic marine debris by 2027 with **Circular Economy**

Integrated waste collection & segregation **infrastructure** and system development

Responsible **consumers** for waste management

Development of recycle & upcycle business to create market demand and add value to plastic waste

Responsible **plastic industry, brand owners and retailers** to manage plastic waste at source



Community Waste Management Model (Rayong)



Waste Collecting

- Municipality
- Local Community



Waste Segregation

- Municipality
- New Community Model

Clean Plastic Waste → Plastic Recycle Business



Contaminated Plastic Waste → Rayong Provincial Waste Segregation Center



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Member : Mobile application

- Record waste sorting list.
- Request waste grab.
- Trading report.
- Check price list.

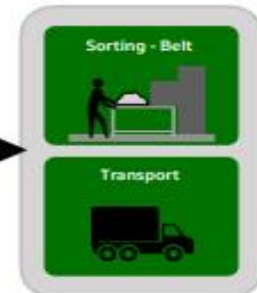
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Waste type after sorting from the community



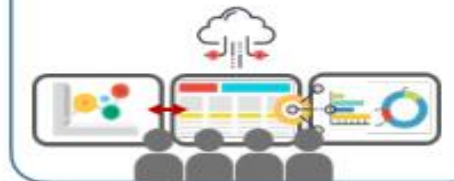
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Community waste management system.

- Record member information.
- Record all stakeholder locations.
- Trading and save the transaction in the database
- All report system.
- Inventory system.
- Logistic system.
- Dashboard - War room system





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