



Sustainable Investment and Investment Opportunities in Thailand

November 4-5, 2021
Forum on Sustainable
Investment in ASEAN

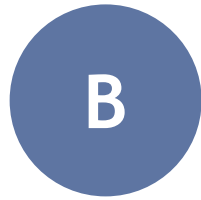
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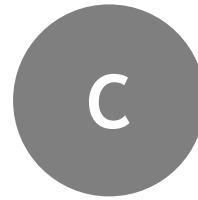
SUSTAINABLE DEVELOPMENT LEADING TO SUSTAINABLE INVESTMENTS

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

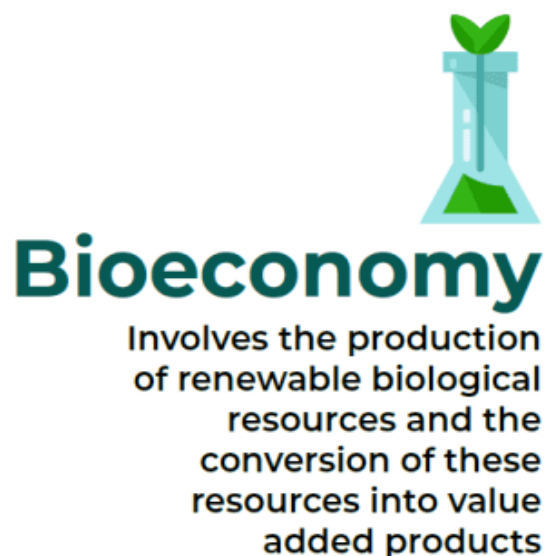




BCG Economy as Thailand's National Agenda

BCG will be Thailand's main economic base, generating a value of **4.3 trillion baht or approx. 135 billion USD (25% of GDP)** over the next five years.

*In line with
Sustainability
Development
Goals*



Green economy

Determines to keep economy, society and the environment in balance, leading to sustainable development



Circular economy

Aims at reusing and recycling resources



*Supporting ESG
(Environment,
Social,
Governance)
Concept*

BCG: Thailand's Agriculture and Bioeconomy

From Resource-based
Agriculture

Agriculture-based Economy



Cassava



Sugarcane



Palm



Rubber

7%

USD 29.64 billion

Feedstock-based

20 million population, mainly in Agriculture

Molecular Breeding

Forecasting

Precision Agriculture

Mechanization

GDP Contribution

Total Value

Core Value

Employment

To Knowledge-based
Value Chain

Bio-economy



Biochemical



Pharmaceuticals



Foods of the Future



Biofuel

8-11%

USD 40.56-53.04 billion

Processed Food, Biochemical and Biofuel

Throughout higher value-added economy

Note: Exchange Rate 1 USD = 32.0535 THB (As of 27 May 2020, Bank of Thailand)

Source: PTT Global Chemical (2019)



BCG: 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 and Landfill





BCG: Thailand Moving Towards Green Economy

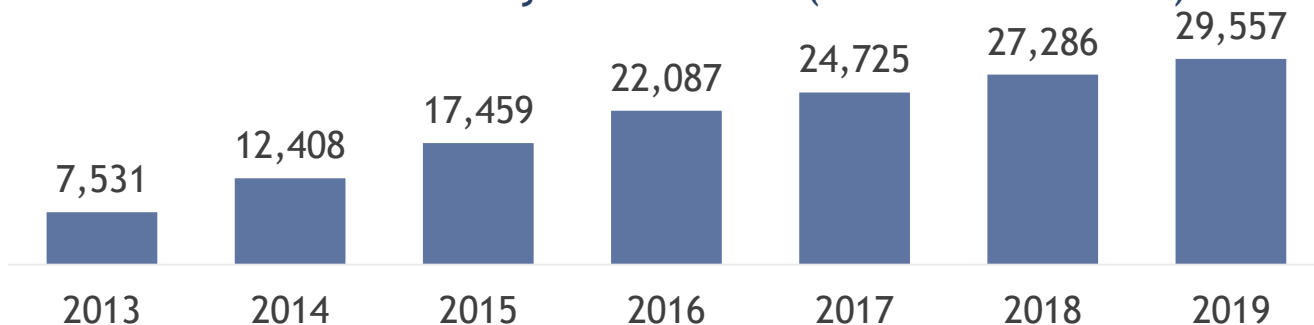
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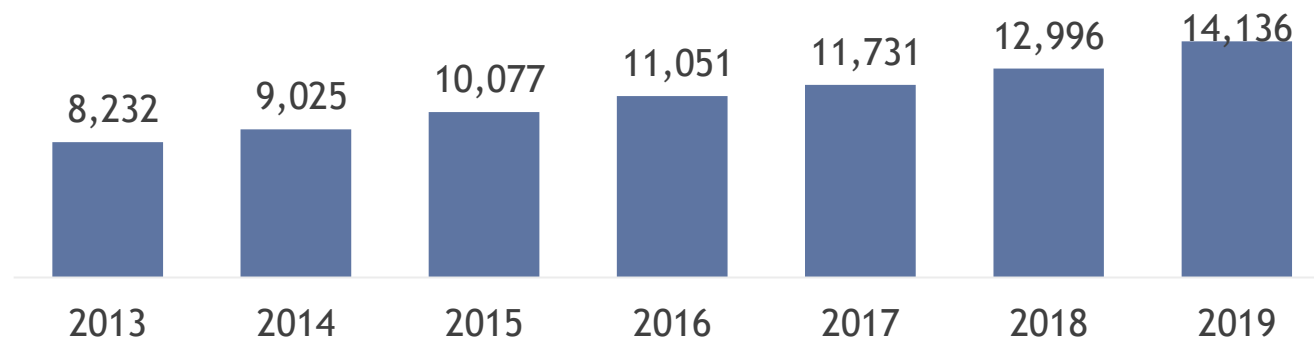
On the Global Green Economy Index (GGEI)

2nd ranked in ASEAN following Singapore

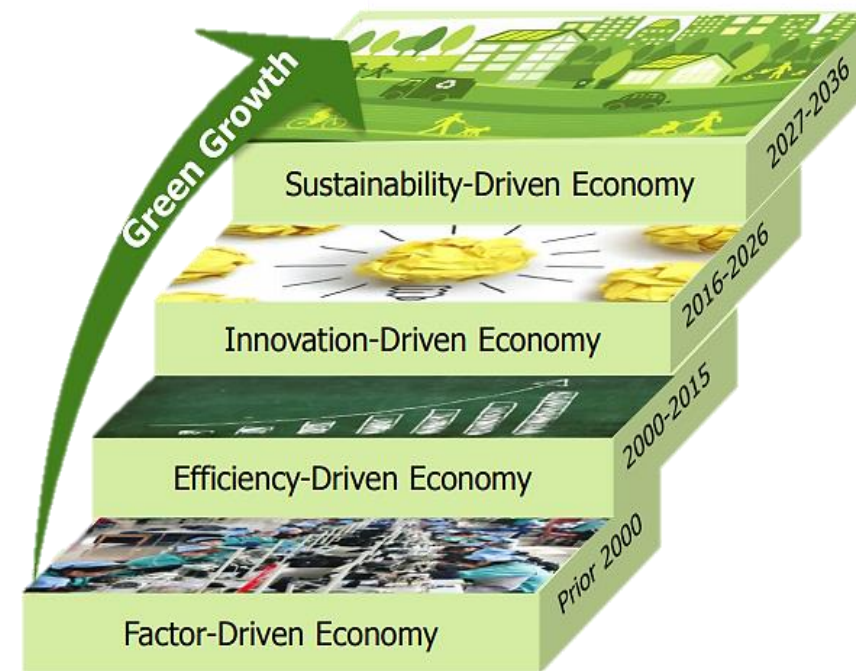
Cumulative Green Industry Certificate (Number of firms)



Alternative Energy Consumption (Ktoe)



Vision towards Green Growth



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

Introduction to the BOI



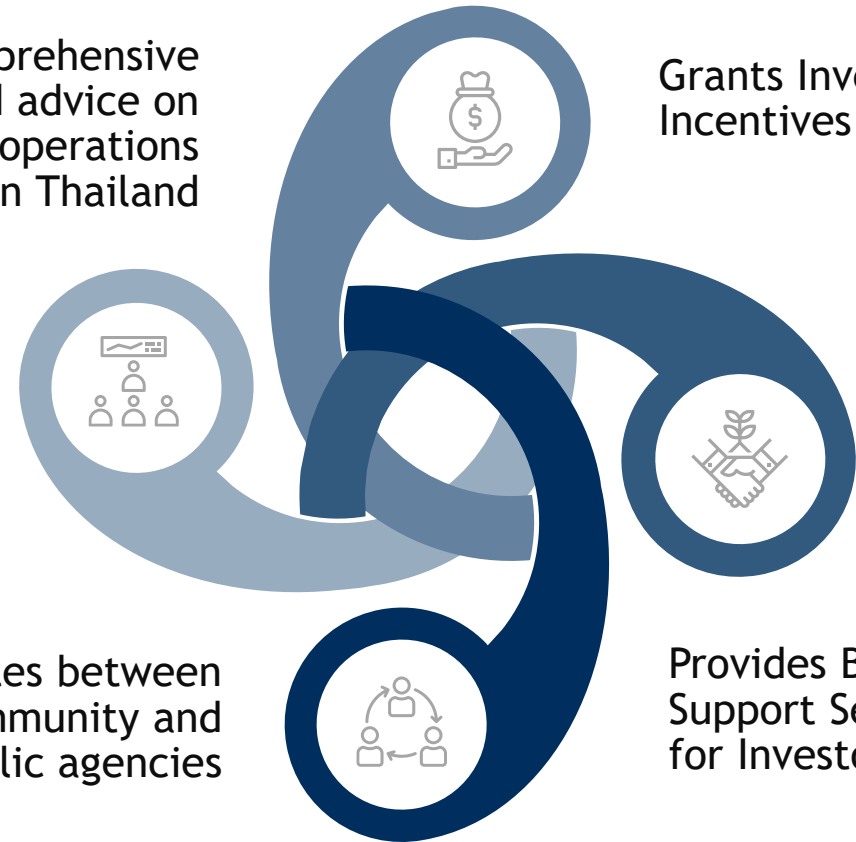
BOI is a government agency
under the Office of
the Prime Minister
responsible for promoting
investment in Thailand

Provides comprehensive
information and advice on
establishing operations
in Thailand

Grants Investment
Incentives

Coordinates between
business community and
other public agencies

Provides Business
Support Services
for Investors



Unlimited Investment Opportunities under BCG Economy-**Decarbonization**

EXAMPLES



- Smart Farming
- Breed/Seed Improvement
- Plant Factory
- Precision Agriculture/ aquaculture
- Healthy food and high-value bio-ingredients (*i.e. prebiotics, probiotics, nutraceuticals, active ingredients, F.O.S*)
- Novel food
- Alternative protein: plant-based, insect-based & cell-based



- Biomaterial drugs
- Gene Therapy
- Vaccine and Biosimilar
- Medical Equipment
- Herbal drugs and products
- Clinical Research
- Tele-Medicine



- Biomass Power Plant
- Biorefinery
- Biodegradable/ Bioplastics
- Eco-friendly chemicals or polymers
- Functional fiber from brewed protein
- Eco-packaging, packaging from agri-waste



- Waste to energy
- Recycling from plastic waste to food-grade plastic

• Snapshot of **Bio-based** Industries/Services Eligible for BOI Schemes •

Agriculture , Agro-Processing, Bio-based, Green Manufacturing

Upstream



Midstream



Downstream

- Economic forest plantation (except for Eucalyptus)
- Organic fertilizers, nano-organic chemical fertilizer and bio-pesticides
- Seed and animal breed improvement
- Plant propagation or animal breeding
- Animal husbandry
- Biotechnology



- Primary rubber processing i.e. latex
- Animal feed/pet food
- Biofuels
- Biomass pellets
- Products from agricultural waste
- Eco-friendly chemicals or polymers i.e. bioplastics
- Extraction of natural raw materials
- Active ingredients
- Biotechnology



- Preservation of food, beverages, food additives or food ingredients
- Natural rubber products
- Biopharmaceutical products
- Diagnostic kits
- Medical food or food supplements
- Bioplastic products
- Biotechnology



• Snapshot of **Bio-based** Industries/Services Eligible for BOI Schemes •

Infrastructure & Support for Bio-Based Industries

- Research and development
- Scientific laboratories
- Clinical research
- Smart farming services
- Vocational training centers/universities
- Food innovation industrial zone (Food Innopolis)
- Trading centers for agricultural goods
- Cold storage
- Production of electricity/steam from biomass or biogas





Thank you

For More Information
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