



Sustainable Investment and Investment Opportunities in Thailand

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

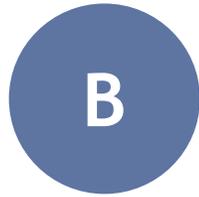
Tanita Sirisup

Executive Director,
International Affairs Division
Thailand Board of Investment

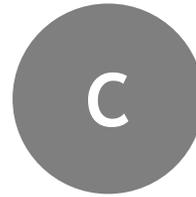
SUSTAINABLE DEVELOPMENT LEADING TO SUSTAINABLE INVESTMENTS

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*



Bioeconomy
Involves the production of renewable biological resources and the conversion of these resources into value added products



Circular economy
Aims at reusing and recycling resources

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



Green economy

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



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

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





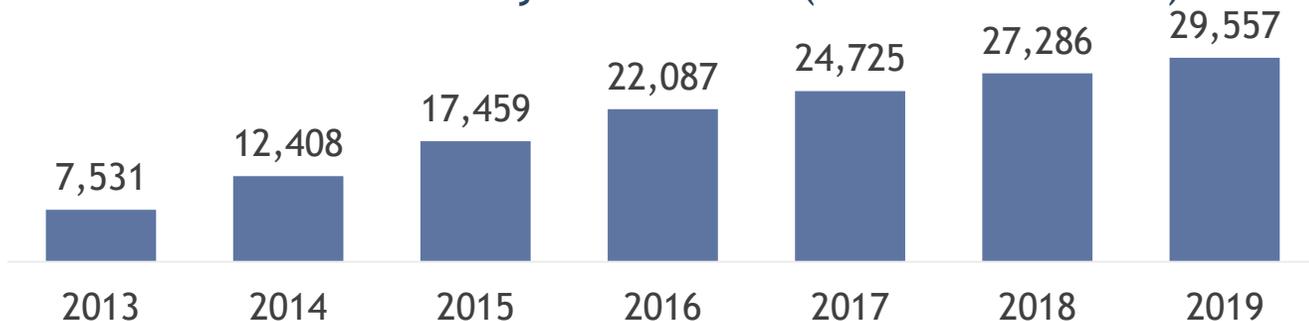
BCG: Thailand Moving Towards Green Economy

27th

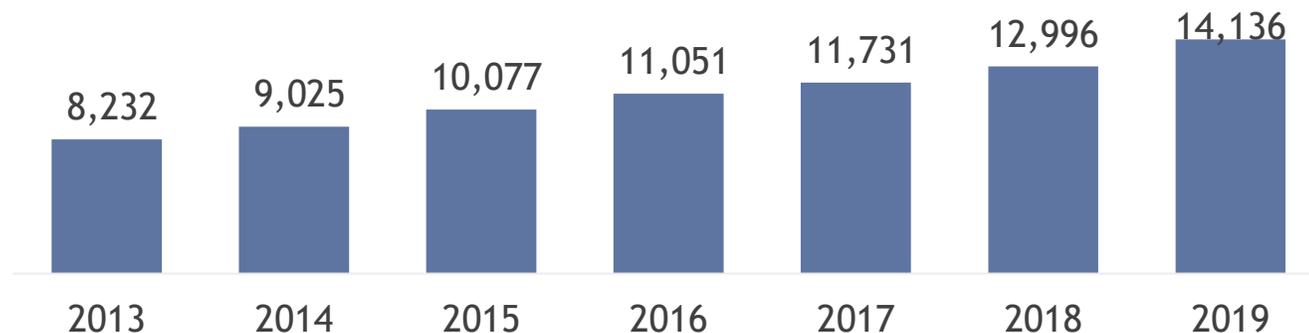
On the Global Green Economy Index (GGEI)

2nd ranked in ASEAN following Singapore

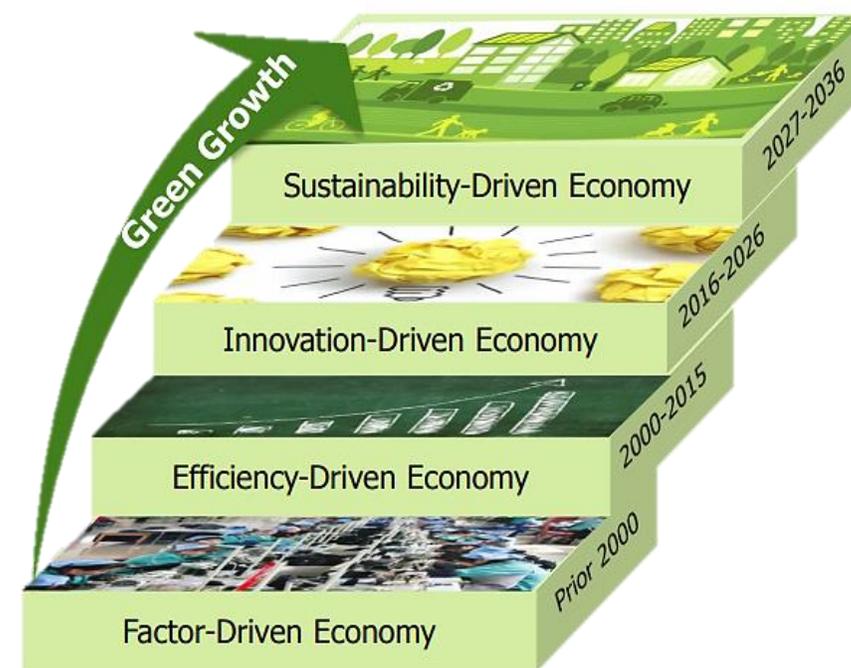
Cumulative Green Industry Certificate (Number of firms)



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



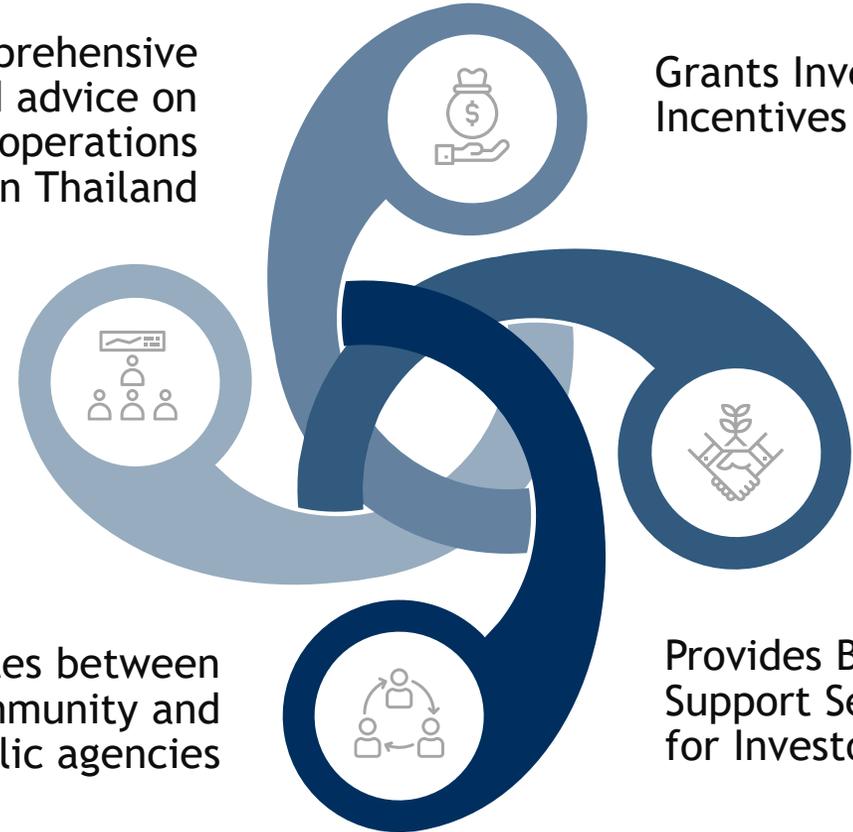
BOI is a government agency under the Office of the Prime Minister responsible for promoting investment in Thailand

Provides comprehensive information and advice on establishing operations in Thailand

Coordinates between business community and other public agencies

Grants Investment Incentives

Provides Business Support Services for Investors



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

EXAMPLES

Food & Agriculture



- 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

Health & Medicine



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

Material & Energy



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

Waste management & recycling



- 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

- 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



Midstream

- 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



Downstream

- 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
please contact



BOI (Headquarters)

 555 Vibhavadi-Rangsit Road.,
Chatuchak, Bangkok 10900,
Thailand

 (+66) 2553 8111

 (+66) 2553 8315

 head@boi.go.th