





INDUSTRIAL ESTATE AUTHORITY OF THAILAND

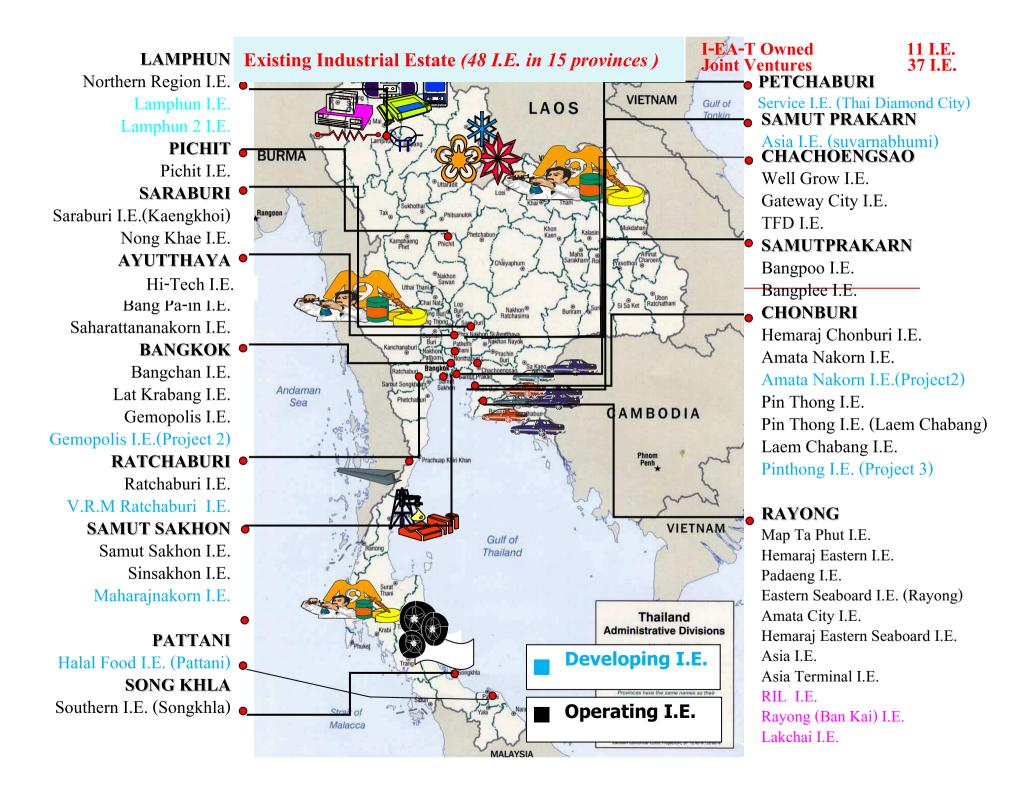


- **►** State Enterprise Founded in 1972
- Attached to the Ministry of Industry
- ➤ Develop and Manage Industrial Estates and I-EA-T Free Zone Throughout the Country





- > Develop Industrial Port
- Promote and Regulate all Industrial Estate in Thailand



Vision of I-EA-T (Year 2013-2015)

"A leading organization to create Eco Industrial Settlement with balance and sustainability"





Scope of Eco-Industrial Estate & Networks



Target of Eco-Industrial Estate & Network Development

Phase 1: Development of a pilot Eco-Industrial Estate (Year 2010 - 2014)

- 1. Develop a standard for Eco-Industrial Estate & Network
- 2. Prepare a master plan for the development of Eco-Industrial Estate & Network in 15 pilot industrial estates, 3 estates each year
- 3. 15 pilot industrial estates join the Eco-Industrial Estate & Network development system in conjunction with the master plan implementation
- 4. Completion of the master plan implementation by 3 pilot industrial estates

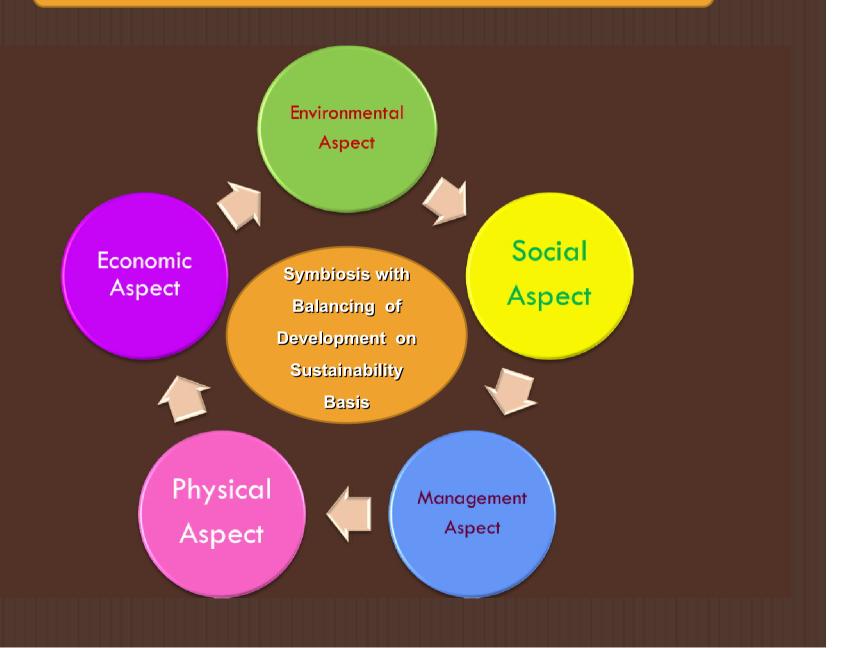
Phase 2: Expansion and extension of development areas (Year 2015-2019)

All operating Industrial Estates join the Eco-Industrial Estate & Network development system in conjunction with the master plan implementation



Criteria and Development Concept of Eco Industrial Estate and Networks

Eco Industrial Estate and Network



Specification of Standards and Criteria 5 Dimensions 22 Aspects

An industrial estate to be developed and upgraded into Eco-Industrial Estate & Network must have the following characteristics;

- •Published Industrial Estate development policy is in accordance with Eco concept with a strong interest in moving toward the goal.
- •An industrial estate pursues in the implementation of Eco concept with the establishment of Eco Team and Eco Networks for the estate. At the same time, Eco Forum must be held periodically for Industrial Estates to exchange ideas with the core team from stakeholders. Then, all parties will be responsible for the collaborative development and management of an industrial estate together.
- •Being equipped with an environment management systems as defined in **ISO 14001**

The Goal of Eco-Industrial Estate & Networks

The Ultimate Goal: Pleasant and sustainable co-existence of industry and community

Physical Aspect

Developing areas and infrastructures including a system for public utilities and facilities to be environmentally sound, sufficient, efficient and safe.

Economy

Aspect

Creating factors promoting local and provincial economy

Environmental

Aspect

Efficient utilization of resource and energy in the production process, waste reduction, and environmentally friendly products

Social Aspect

Happiness of people in the organization and community focusing on the good quality of life and society

Management

Aspect

Effective Estate Management which focuses on the collaboration and good governance for the benefits of all parties involved



The specification of standards and criteria for Eco Industrial Estate & Networks

The Ultimate Goal: Pleasant and sustainable co-existence of industry and community

5 Aspects 22 Areas

Physical Aspect

landscape/Land use/Green Area/Zoning

Eco Design for Common Utility & Infrastructure

Energy Efficiency & Environmental Friendly Building / Green Building **Economic Aspect**

Provincial and Country Economic growth from industrial sectors

Economic growth of local area

Economic growth of community

Environmental Aspect

Resource & Material Management

Energy Management

Production Process & Product

Water pollution

Air pollution

Waste management

Complaints Response Management

Safety & Health

Industrial Symbiosis Networks **Social Aspect**

Quality of life of employee (Happy Workplace)

Quality of life of the people surrounding (Happy Community) Management Aspect

Management by cooperation & Participation

Enhancing of Factory Audit

Promotion of Mang. system (ISO Series), including risk management and BCM.Plan

Promotion of new technology /system/

innovation to the Industry

Public disclosure/
Sustainable Report.



Map Ta Phut Petrochemical Complex

Hemaraj 50 factories 3,312 Rai (5.30 km2)

RIL 6 factories 1,660 Rai (2.66 km2)

Asia
12 factories
3,220 Rai (5.15 km2)

- 5 Industrial Estates & Map Ta Phut Port
- ■21,862 Rai (34.97 km2)
- ■151 Factories
- ■900 Billion Baht of Investment

Map Ta Phut 67 factories 10,215 Rai (16.34 km2)



Map Ta Phut Port
12 factories
2,915 Rai (4.66 km2)



Physical Dimension

Developing areas and infrastructures including a system for public utilities and facilities to be environmentally sound, sufficient, efficient and safe.

landscape/Land use/Green Area/Zoning

Eco Design for Common Utility & Infrastructure

Energy Efficiency & Environmental Friendly Building / **Green Building**













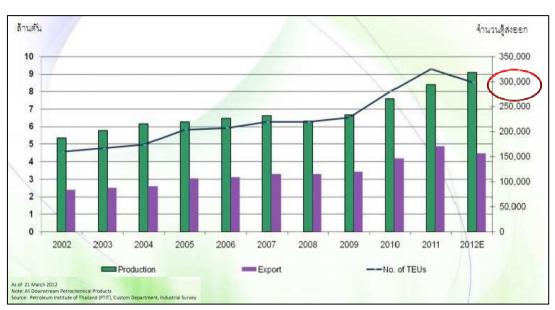




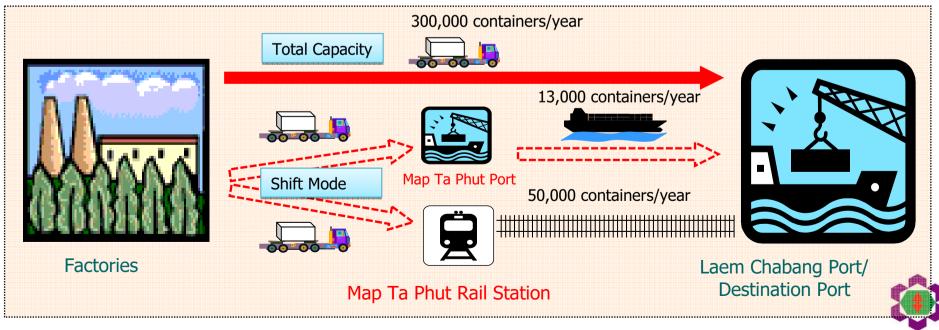




Green Logistics







Economic

Dimension

Creating factors promoting local and provincial economy

Provincial and Country Economic growth from industrial sectors

Economic growth of community

Economic growth of community





Environmental Dimension

Efficient utilization of resource and energy in the production process, waste reduction, and environmentally friendly products

Resource & Material Management

Energy Management

Production
Process & Product

Water pollution

Air pollution

Waste management

Complaints Response Management

Safety & Health

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Industrial Symbiosis Networks



Environmental and Safety Management Fnv. & ☐ Environmental Monitoring & Safety **Control Center (EMCC)** ☐ Plant Integrity **Monitoring Audit** □ Pollution Control & Abatement Plan **Environmental Emergency Pollution** & Safety Control Response **Management ■** Emergency Response Plan ☐ Green Star Award **Public** ☐ EIA Monitoring **Panticipation &** □ CSR Env. Good **Governance**

Social Dimension

Happiness of people in the organization and community focusing on the good quality of life and society

Quality of life of employee (Happy Workplace)

Quality of life of the people surrounding (Happy Community)





Management Dimension

Effective Estate Management which focuses on the collaboration and good governance for the benefits of all parties involved

Management by cooperation & Participation

Enhancing of Factory Audit

Promotion of Mang. system (ISO Series), including risk management and BCM.Plan

Promotion of new technology /system/

innovation to the Industry

Public disclosure/ Sustainable Report.

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Mechanism of Environmental Good Governance



Display Mobile Unit



Display Board: Factory Level



Display Station



Display Board: Community Level



EIA Monitoring





☐ Set up EIA
Monitoring
Committee with local
communities,
Pollution and Control
Department, etc. in
Year 2009.





Green Star Awards / Gold

Walk through and Evaluate Factories with Local Communities





Year 2007: 32 factories

Year 2008: 49 factories

Year 2009: 47 factories

Year 2010: 56 factories

Year 2011: 86 factories

Year 2012: 96 factories

(Green Star)

: 18 factories (Gold Star) (G





Thank you



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