



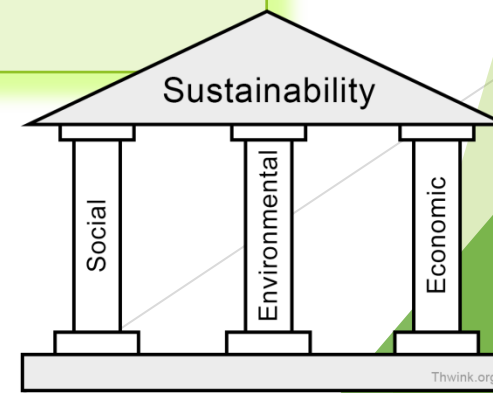
Green Industry Promotion and Development In Thailand

The Ministry of Industry is the main sector to develop Thailand's economy, set up industry development strategies for environment and society by proactively take action in enhancing and promoting industry growth and sustainability.



Background

To comply with Johannesburg Declaration on Sustainable Development and Manila Declaration on Green Industry in Asia, Ministry of Industry has set the policy and the strategic plan to support industries under the concept of triple bottom legs which cares for economy, society, and environment. The idea of “Green Industry” was initiated to ensure the healthy growth of industrial sector as well as to drive the green GDP for the country. Thus, Thailand’s 20-year National Strategic Plan focuses on green growth





The Ministry of Industry launched the project of “Green Industry” in 2011 so as to encourage the industries in the Country to be more environmentally-friendly, and more responsible to the society.

Concept and Green Industry Operation Framework

Promoting and driving the production sector to green industry for sustainable and balanced development is the core of the project.

- Using 3Rs principles
- Clean Technology
- Green productivity
- Eco Design
- Life Cycle Analysis, LCA
- Pollution Reduction
- Reduced Greenhouse gas emission



What is "Green Industry"



Continuous
Improvement
Sustainable
Development

Environmental
Friendly

social
responsibility

Green Industry is the industry which commits to environmentally-friendly entrepreneurship by focusing on development and continuous improvement in production process and environmental management

The green industry driving force of the Ministry of Industry is based on industrial organization's willingness to conduct a community-friendly business for sustainable Development. This operation consists of 5 levels, starting from easy to difficult levels.



DEVELOPMENT OF GREEN INDUSTRY

5-level Development of Green Industry



Green Commitment Level 1

- Define environmental policy



Green Activity Level 2

- Define environmental policy
- Preparation environmental plan
- Implement environment plan



Green System Level 3

- Environmental policy
- Planning
- Implementing
- Follow up and evaluation
- Revision and maintaining system



Green Culture Level 4

- Maintain environmental management system as mentioned in L.3
- Cultivate organization culture and environmental awareness
- Public disclosure on environmental data

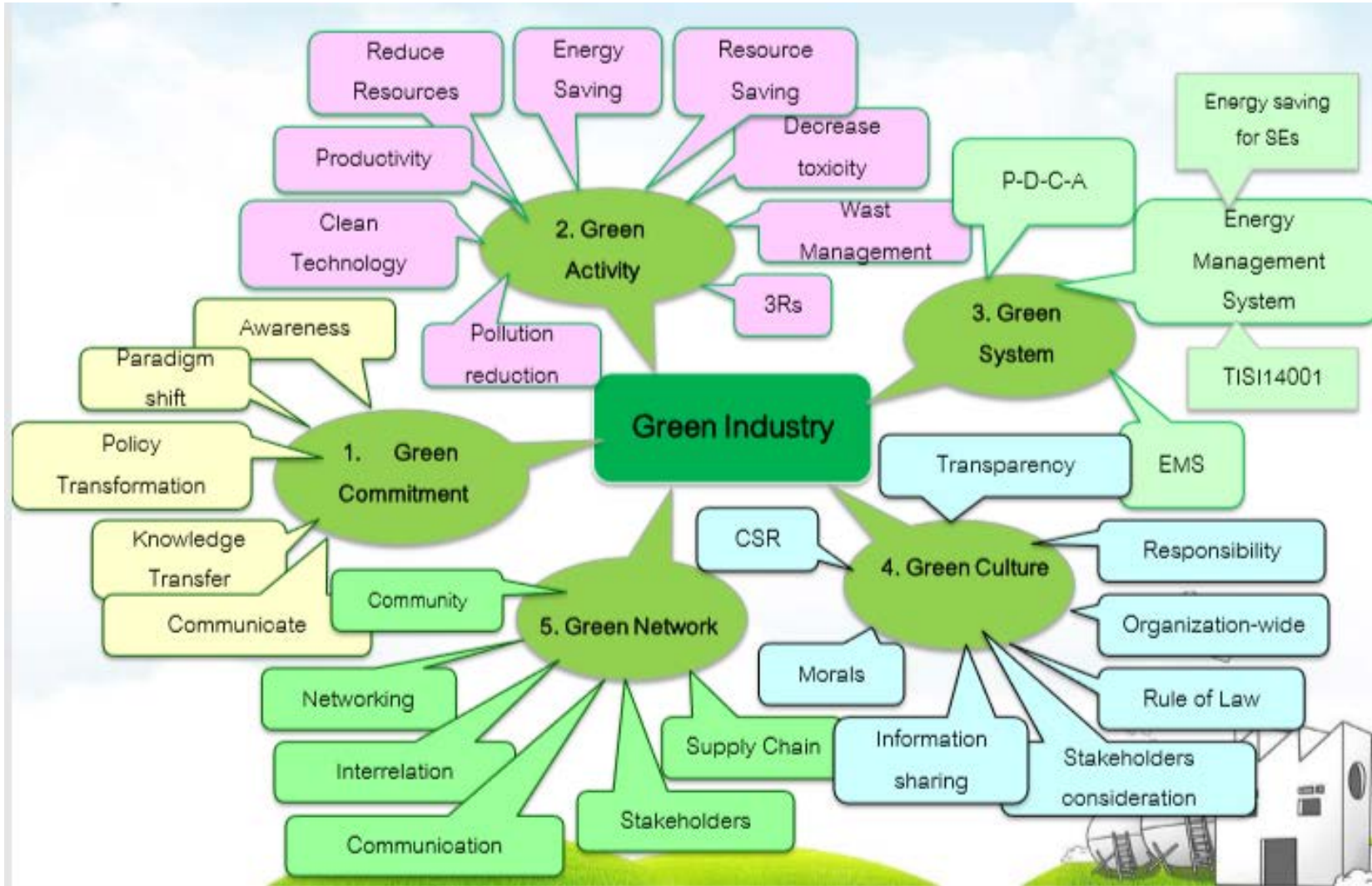


Green Network Level 5

- Maintain environmental management system and culture (criteria of L. 4)
- Promote environmental activity with stakeholder and supply chain
- Communicate with stakeholder about environmental activity
- Community satisfy with plant's environmental performance



Examples of Projects that can be classified to Green Industry level



ADVANTAGES

1

Impact Reduction on environment and community, less complaints about impacts from industrial operation, risk reduction from operating responsibly.

2

Create a good image and receiving a good attitude from public for being environmentally friendly.

3

Develop a better understanding and mutual recognition between industry and its community.

4

Communities will obtain environmental justice and have better quality of life from economic and social development which results from the green industry.

5

Increase green job and employability related to environment, fairness in job hiring. Workers will work safely and happily in a good environment.

ADVANTAGES

6

Reduce natural resource and energy use, cost saving in business operations, create competition opportunities.

7

Increase marketing opportunities on “green” products and “clean” production process in which consumers are increasingly aware around the world.

8

Add value in national economy and decoupling economic growth and environment impact.



INCENTIVES FROM MINISTRY OF INDUSTRY

Benefits	Requirements	Responsible Organization
5 years Annual Fee Exemption for Factory	1) Obtain Environment System or ISO 14001 accreditation or 2) Obtain occupational health and safety management system standard	Department of Industrial Works Office of Permanent Secretary
5 years Annual Fee Exemption for Factory	1) Utilize waste and residue in biogas production as alternative energy 2) Utilize waste heat from the production process	Department of Industrial Works SMEs Bank
Green Productivity Loan Indulgent Inspection Reduced frequency of monitoring	Must be an SME Certify with green industry at above level 3	Department of Industrial Works, Department of Industrial Promotion, Industrial Estate Authority of Thailand
Award, Recognition Green Industry Mark announcement on website	Certify with green industry	Department of Industrial Works

AMOUNT OF GREEN INDUSTRY CERTIFICATES

Level	2011	2012	2013	2014	2015	2016	2017	2018	Total
1	316	1,172	4,407	5,637	4,328	2,926	594	95	19,475
2	227	705	1,733	764	986	1,292	704	543	6,954
3	507	603	882	659	730	1,056	909	452	5,798
4	-	30	20	1	42	53	139		285
5	-	-	-	5	8	17	6		36
Total	1,050	2,510	7,042	7,066	6,094	5,344	2,352	1,090	<u>32,548</u>



THANK YOU

