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Green Industry for Low Carbon Growth in Developing and Emerging Economies in East Asia

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East Asia Knowledge Platform for Low Carbon Growth
Tokyo, 17th May 2013



Green Industry

- Greening of Industry
 - Continuous improvement of resource productivity and environmental performance of industries in all sectors
 - Cleaner Production
 - Energy Efficiency
 - Chemicals Management
 - Etc.
- (Creating) Green Industries
 - Industrial supply of environmental goods and services
 - Waste management
 - Resource recovery
 - Renewable energy
 - Etc.

Green Industry is the sector strategy for achieving the aims and objectives of green economy and green growth in the manufacturing and associated sectors

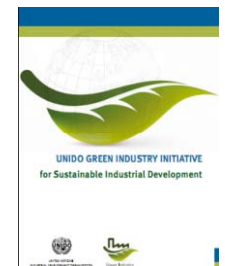


Green Industry = Development Priority

- Triple bottom line development benefits
 1. Income and employment creation
 2. Competitive and sustainable business
 3. Innovative and value-adding products
 4. Natural resource security
 5. Mitigation and adaptation to climate change
 6. Environmental management
 7. Industrial and chemical safety



Chairs' Summary, Senior Officers Meeting, TGIC, 15 November 2011

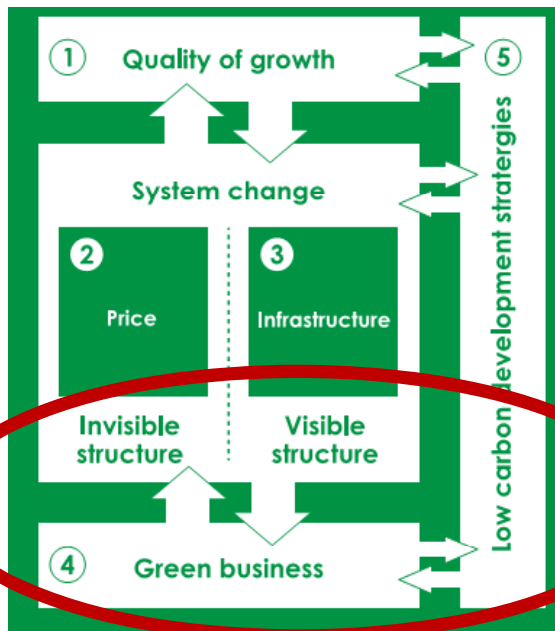


Tokyo Green Industry Conference 2011 



Low Carbon Green Growth Roadmap for Asia and the Pacific

Turning resource constraints and the climate crisis into economic growth opportunities



Five tracks

1. Improving the quality of growth and maximizing net growth
2. Changing the invisible structure of the economy
3. Changing the visible structure of the economy
4. Turning green into a business opportunity
5. Formulating and implementing low carbon development strategies



Pathways Towards Low Carbon Industry

Resource Efficient and Cleaner Production: innovation for low carbon industry

DEMATERIALIZING PRODUCTS

developing new products that require less materials and energy over their lifecycle



INCREASING PROCESS EFFICIENCY

reducing the intensity of use of energy, materials chemicals and water



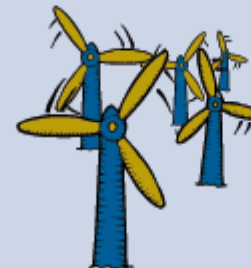
MINIMIZING PROCESS EMISSIONS

adopting clean technologies to minimize the generation of non-energy greenhouse gases



SWITCHING TO LOW-CARBON INPUTS

using renewable and other low-carbon sources of energy and materials



CLOSING THE CARBON LOOP

recovering organic wastes for reuse as feedstock for energy and materials

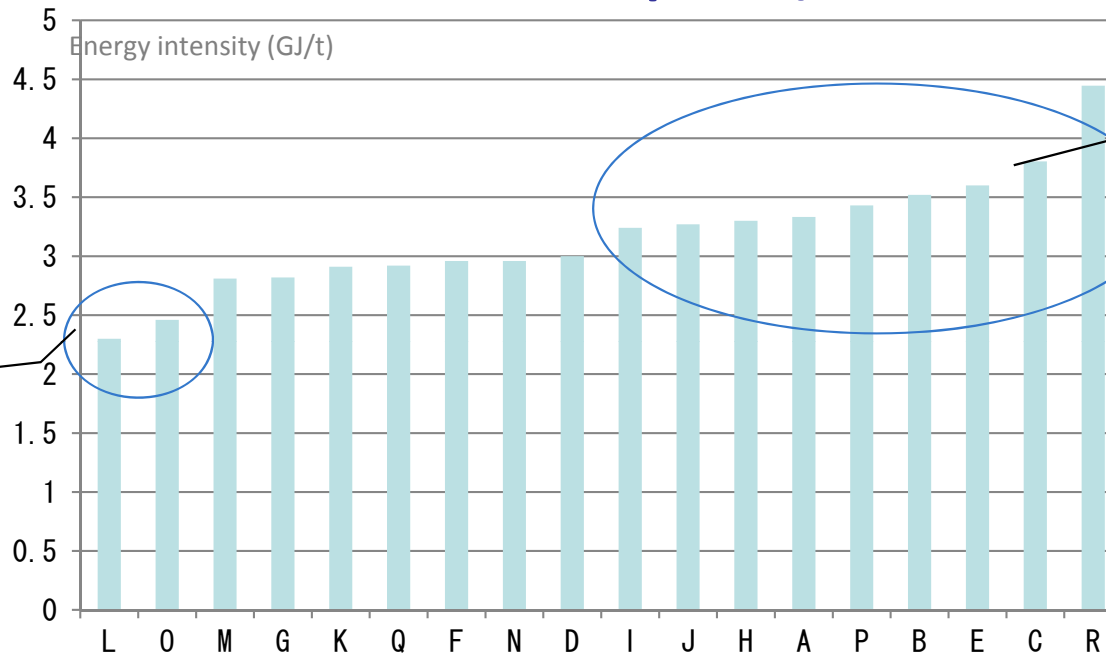




Steel Sector Example (Viet Nam)

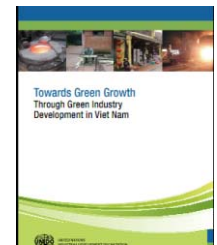
Viet Nam EAF steel sector

2 are within good practice range (2.1-2.4 GJ/t)



9 use 20-80% more energy than good practice

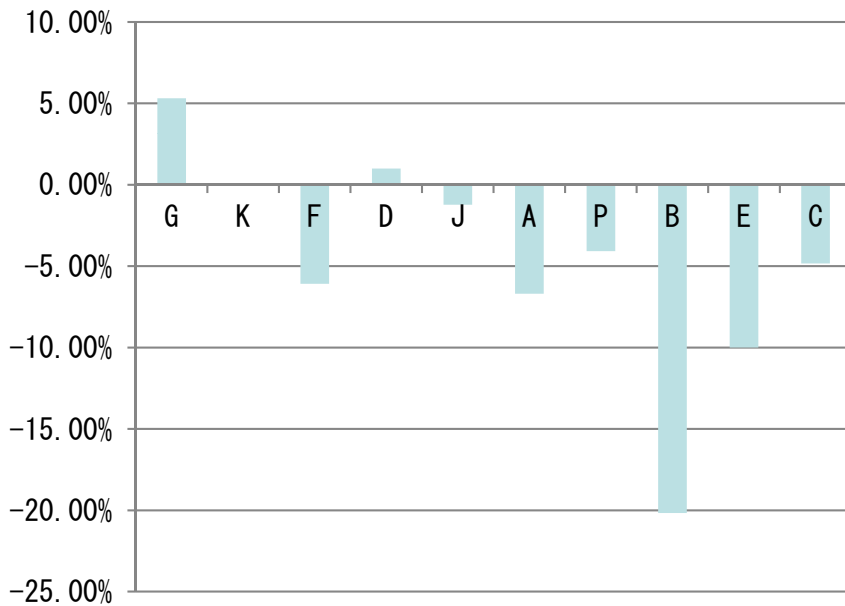
- Energy intensity significantly higher than international good practice
 - Low scrap quality
 - Insufficient process monitoring
 - Lacking slag analysis
 - → compounded by limited basic furnace and metallurgical knowledge





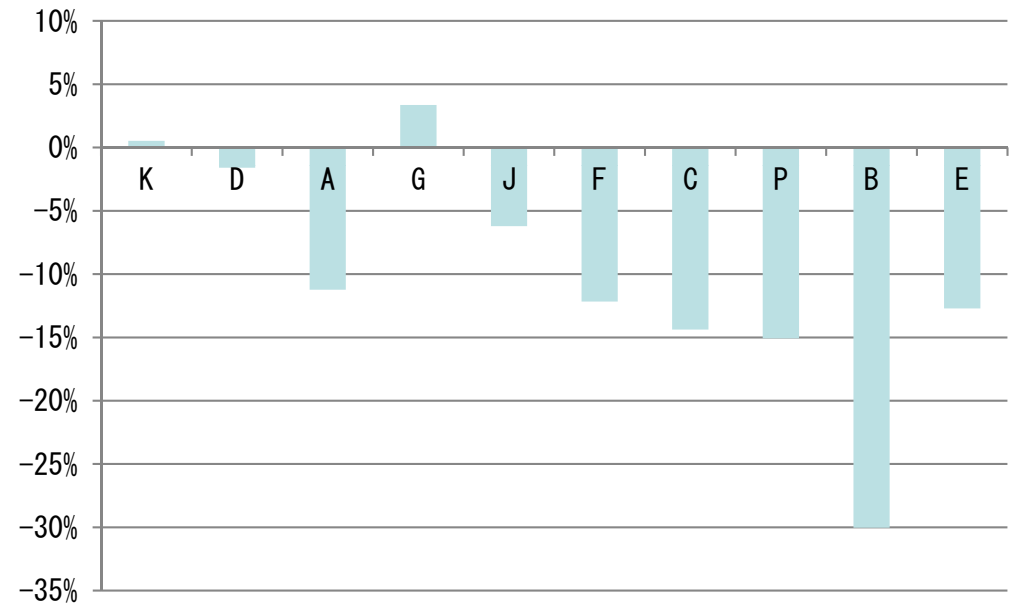
Steel Sector Example (Viet Nam)

Energy Reductions

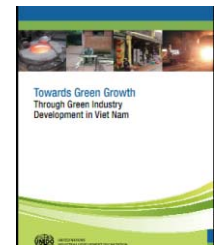


7 improved, 4 thereof reduced energy by 6-21%

GHG Reductions



8 improved, 6 thereof reduced GHG emissions by 10-30%





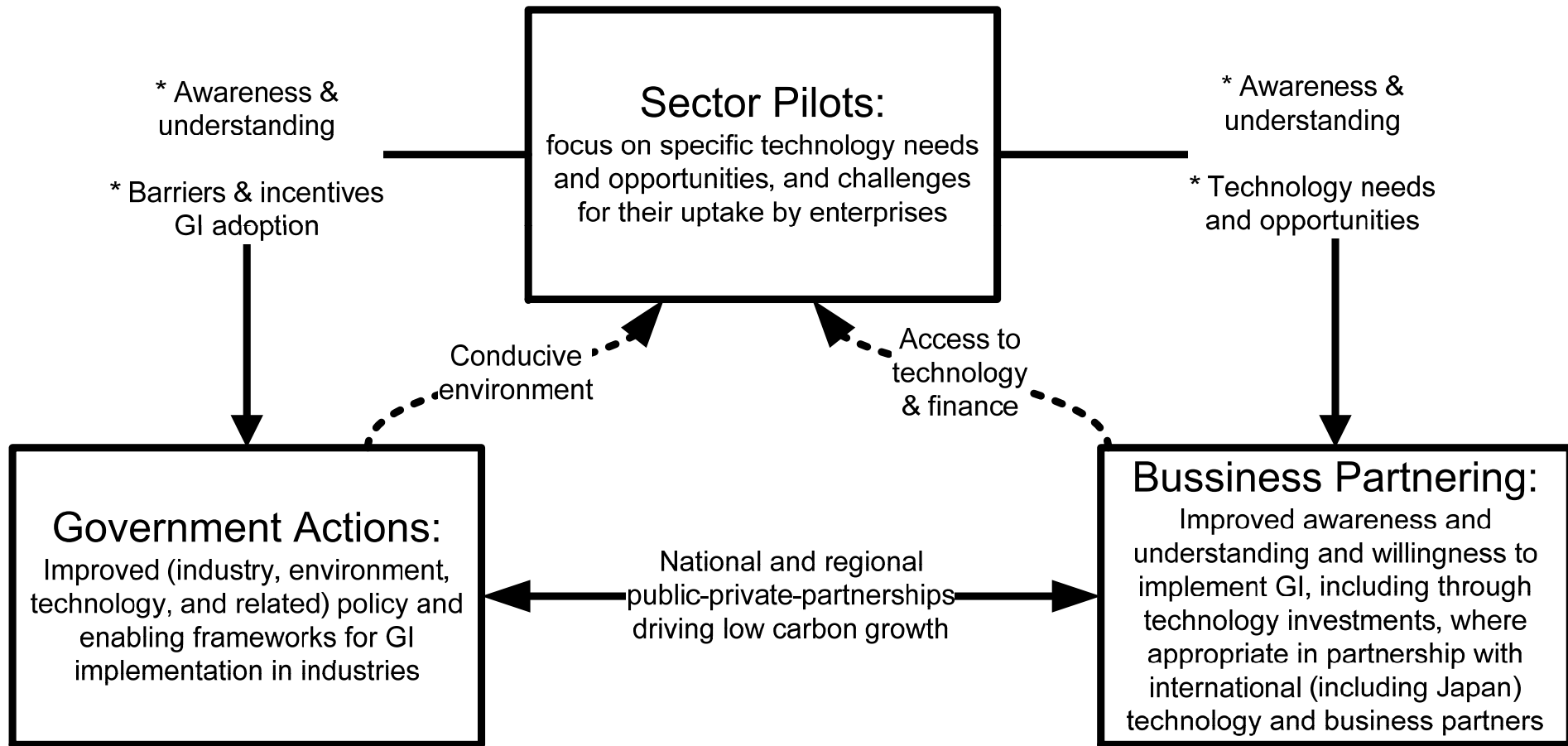
Regional Green Industry Pilot Project (Cambodia, Lao and Myanmar)

- Foster South–South and South–North–South collaboration for benefit of low carbon development in LDCs in greater Mekong region
 - Provide input to East Asia Low Carbon Partnership Dialogue
- To enable the Governments of Cambodia, Lao and Myanmar to *unlock* and *unleash* the triple bottom line potential of GI for low carbon growth as contribution to sustainable development and poverty eradication in the target countries, both nationally and regionally
 - *Stimulate Green Industry development*
- Take advantage of relative abundance of agriculture, agro-forestry and related processing sectors with high energy intensity and large volume organic wastes
 - » Rice, sugar, tea, coffee, palm oil etc





Pilot Project Components (Cambodia, Lao and Myanmar)



2013-2014



Regional Green Industry Pilot Project (Cambodia, Lao and Myanmar)

Government Action	Green Industry Pilots	Business Partnerships
<ul style="list-style-type: none"> • Review and assessment of current industry, environment and technology policies and identification of opportunities for government intervention to foster GI uptake • Consultation of stakeholders in government and business sectors • Drafting and promoting of national GI action agendas to lead industrial development authorities 	<ul style="list-style-type: none"> • Survey and mapping of agro-processing/food and bio/renewable sectors • Conduct GI/RECP assessments in selected demonstration companies • Confirmation of sector level technology needs and opportunities • Dissemination of results and achievements 	<ul style="list-style-type: none"> • Identification and screening of technology options and relevant business and technology partners (focused on Japan) • Feasibility studies and preliminary investment appraisals for low carbon investments in selected companies • Matchmaking conference and study tour in Japan with business and government delegations from Cambodia, Lao and Myanmar



CLIMATE TECHNOLOGY CENTRE & NETWORK

- Operational modality under UNFCCC tasked to:
 - Respond to developing country mitigation and adaptation-related EST requests
 - Stimulate and encourage the development and transfer of existing and emerging ESTs including through North South, South-South and triangular cooperation
 - Facilitate a network of national, regional, sectoral and international technology centres, networks, organizations and initiatives

Approved for implementation during COP18 and COP17 being operationalized in 2013, with headqu



United Nations
Framework Convention on
Climate Change



CTCN

CLIMATE TECHNOLOGY CENTRE & NETWORK





In Closing

- Industry is key for low carbon future of East Asia!
 - Focusing on green industry
 - » Unlocking the business case and achieving co-benefits
 - » Increase income, jobs, trade and climate resilience
 - » Decrease non-GHG emissions and waste
 - Capitalizing on the nexus
 - » Energy and Water
 - » Agriculture and Biomass
 - Collaborative effort
 - » Government action to create framework conditions
 - » Business partnerships to access technology and



Thank You



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Ministry of Foreign Affairs of Japan
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