

Transferring of Low-Carbon Technology to implement NDC, what need to be done?

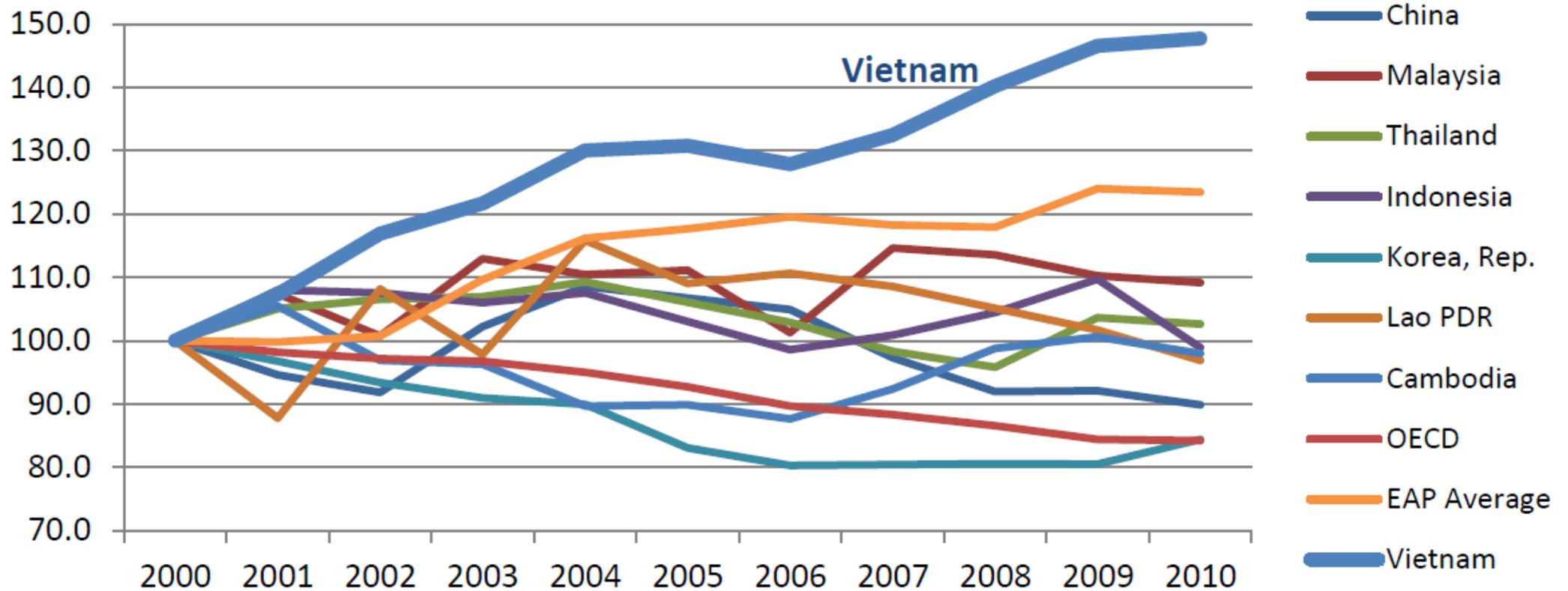
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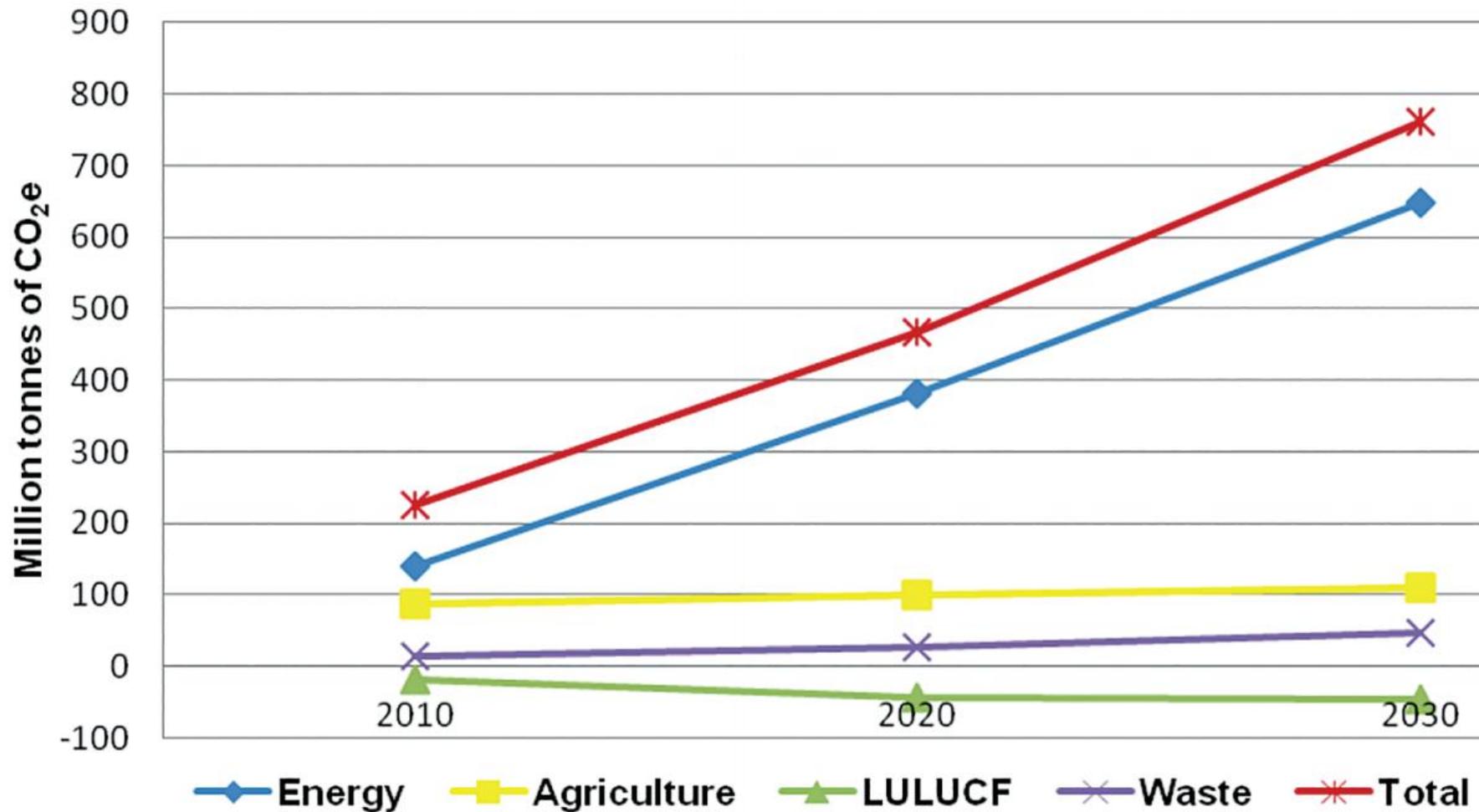
Vietnam's CO2 emissions and GDP compared with selected nations and regions



Source: World Development Indicators.

Note: EAP = East Asia and the Pacific; GDP = gross domestic product; OECD = Organisation for Economic Co-operation and Development; PDR = People's Democratic Republic.

GHG EMISSION 2010-2030



BARRIERS IDENTIFIED IN 2012 TNA

- **Energy technologies:** lack of investment, high investment costs, inadequate capacities for technology transfer and application, and various environmental impacts.
- **Agricultural technologies:** lack of understanding of technology benefits, inertia of old traditional practices and inadequate capacity for technology application
- **LULUCF:** lack of budget and investment for forest technologies, lack of information on complex forest ecosystems, insufficient land planning for forest development and lack of capacity for technology development and diffusion.

BARRIERS & SOLUTION: at consumer level

- Low level of awareness on using of climate friendly products
 - »→ Awareness raising on the social, economic and environmental benefits
 - »→ Climate friendly labels
- Ability/willing to pay more
 - »→ make product cheaper and better

BARRIERS & SOLUTION: at business level

- Low level of investment in R&D and technology transfer (small business, ~3% of total income 2014)
 - encourage and apply policies (for carbon pricing)
- High risk of investment in new technologies: high prices, uncertainty of benefits, difficult to borrow from banks
 - Risk transferring?
- Ability to receive new technologies:
 - Workers/staff to operate? → capacity building
 - Harmonization with the existing production system?

BARRIERS & SOLUTION: at management level

- Lack of information on technologies available: New/latest technology? Dumping technology?
 - capacity building
 - setup technology committee
- Knowledge on the new technology of the management system, especially when related to tax exemption
 - capacity building
 - setup technology committee
 - standardize procedure

VIETNAM'S CRITERIA FOR PROMOTING LOW-CO₂ TECHNOLOGIES

- **Economic benefits:** the level of contribution of sector into national economy, via ratio of sector over GDP, energy saving;
- **Social benefits:** level of contribution of sector to employment, hunger eradication and poverty reduction, enhancing health and cultural living;
- **Environmental benefits:** show significant of sector to development of land, air, water, ecology environments;
- **GHG emission mitigation potential:** large reduction of GHG when technologies are applied.

SUPPORT NEEDED TO ACCELERATE TECHNOLOGY TRANSFER AND DEPLOYMENT

- Regular Technology Need Assessments
- Website database on technologies are available and how to access
- Technology fund to subsidize for Intellectual Property Right?
- Capacity Building
- Enabling favour environment for technology transfer both international and domestic