

Environmental goods trade between China and EU: Development and influencing factors

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Motivation

 Rapid development of environmental goods trade between China and the EU

Current situation, problems and future opportunities

Lack of a clear definition on environmental goods
 OECD vs EU Statistics Bureau vs APEC



Related Literature

- Definition of environmental goods
- 1. OECD (1999): THE ENVIRONMENTAL GOODS & SERVICES INDUSTRY, 1999, pp. 9-13
- 2. APEC (2012): http://www.apec.org/Meeting-Papers/Leaders-Declarations/2012/2012_aelm/2012_aelm_annexC.aspx
- 3. OECD and the EU Statistics Bureau also jointly proposed a general framework for classification of environmental products
- Liberalization and trade policy of environmental goods trade Chen Yan(2008), Zhong Juan (2010), Wan Yiting (2011)



Contribution

 This paper provides a clear definition and consistent data on environmental goods proposed by OECD(1999) and database from UN COMTRADE (HS96) to have a robust basis for analysis.

• Further explores environmental goods trade between China and the EU from current situation, structure, problem and future opportunity.



Definition

• Based on definition of OECD(1999), environmental goods refers to primary industrial products and processed industrial products that are used to provide environmental services, including "Pollution Management Group", "Clean Technologies and Products Group" and "Resource Management Group". (OECD, THE ENVIRONMENTAL GOODS & SERVICES INDUSTRY, 1999, pp. 9-13)

Statistical framework of environmental goods and service

	Second Class	Third Class
		Air pollution control
		Wastewater management
		Solid waste management
	Production of equipment and specific materials	Remediation and clean-up of soil, surface water and groundwater
		Noise and vibration abatement
		Environmental monitoring, analysis and assessment
		Other
		Air pollution control
		Wastewater management
		Solid waste management
		Remediation and clean-up of soil, surface water and groundwater
and the second second	Provision of services	Noise and vibration abatement
A. Pollution Management group		Environmental R&D
		Environmental contracting and engineering
		Analytical services, data collection, analysis and assessment
		Education, training, information
		Other
		Air pollution control
		Wastewater management
		Solid waste management
	Construction and installation	Remediation and clean-up of soil, surface water and groundwater
		Noise and vibration abatement
		Environmental monitoring, analysis and assessment
		Other

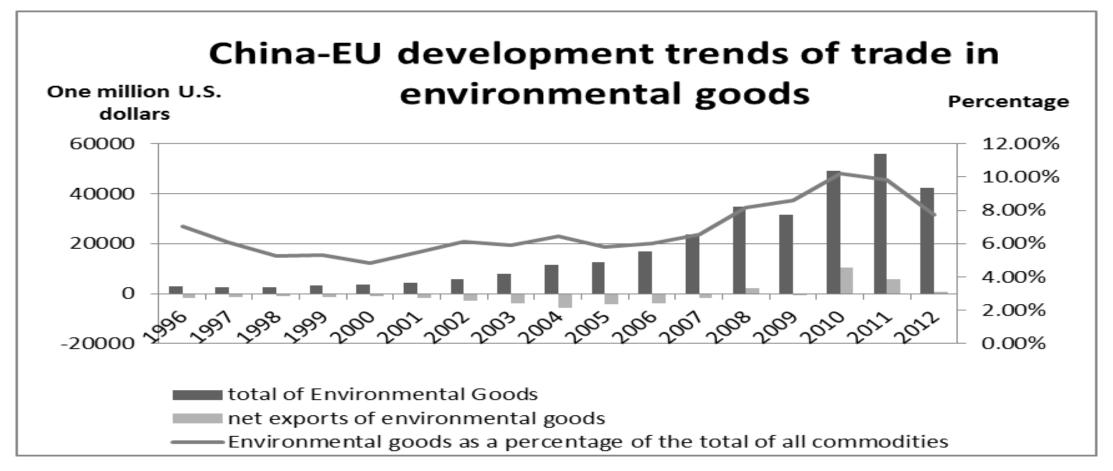
B. Clean Technologies and Products group	Production of equipment, technology, specific materials or services	Clean/resource-efficient technologies and processes
		Clean/resource-efficient products
C. Resource Management group	Production of equipment, technology and specific materials, provision of services, and construction and installation	Indoor air pollution control
		Water supply
		Recycled materials
		Renewable energy plant
		Heat/energy saving and management
		Sustainable agriculture and fisheries
		Natural risk management
		Eco-tourism
		Other

Source: OECD, THE ENVIRONMENTAL GOODS & SERVICES INDUSTRY, 1999, pp. 9-13.



Overall Trends

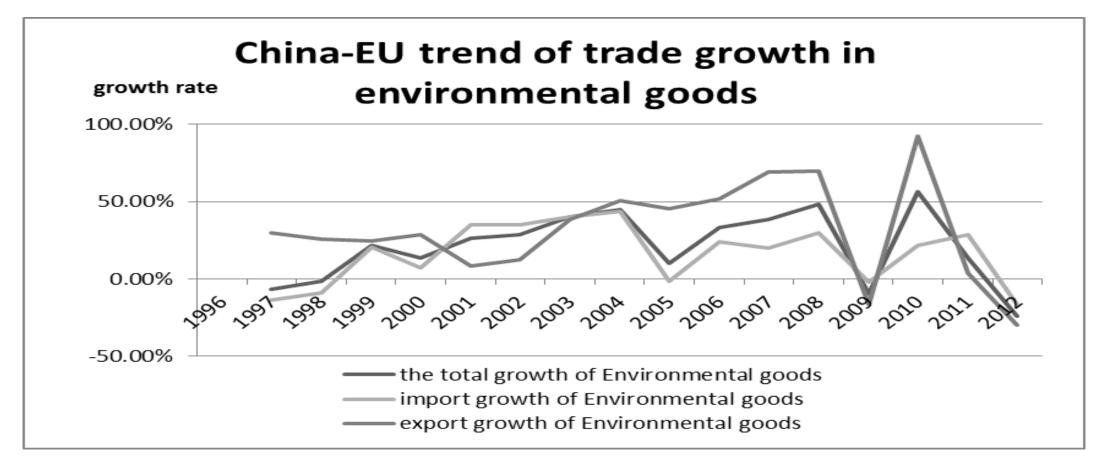
• total trade value between China and 28 countries of EU has increased from \$2.759 billion in 1996 to a maximum of \$55.878 billion in 2011.





Overall Trends

 The average annual growth rate of trade value in environmental goods between China and EU was 21% during the period.

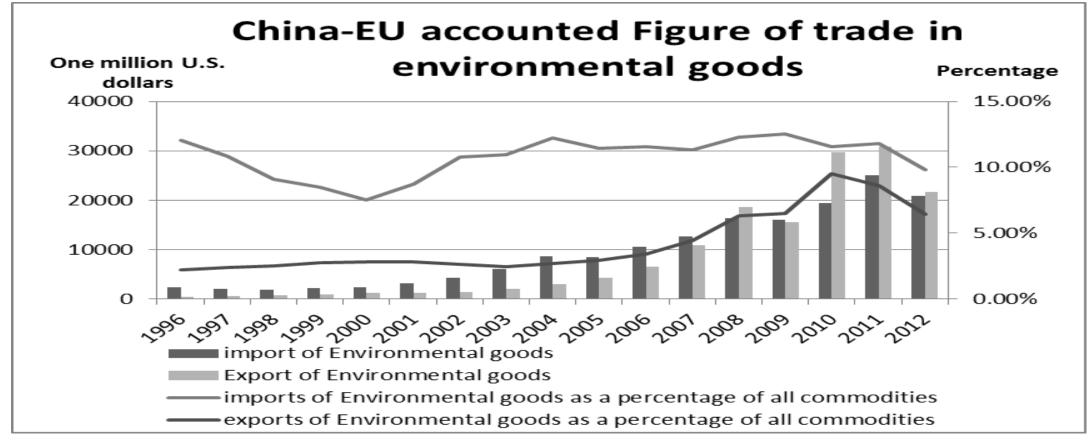






Overall Trends

• Import and export trade in environmental goods has exhibited different trends: The proportion of environmental goods in China's total exports has increased markedly since 2002 and growth rate has been greater than that of import trade.



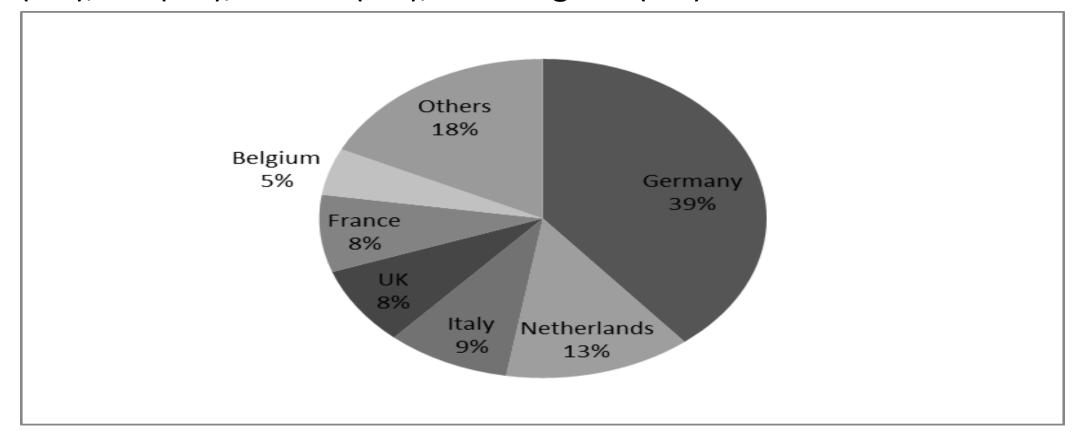
Source: Authors' calculations from UN COMTRADE database





Trade Structure by Partner

• Concentration of China's trade in environmental goods in EU countries is quite high: Germany (39%), the Netherlands (13%), Italy (9%), UK (8%), France (8%), and Belgium (5%).





Prominent Problems

Imbalances in trade in environmental goods between China and EU

- 1. The total trade volume between China and EU reached \$547.7 billion dollars in 2012, while the trade volume of environmental goods accounts for only 7%.
- 2. Environmental goods export from China to the EU still accounts for a lower proportion of the total exports than trade in the other direction.
- 3. China had a deficit in environmental goods trade from 1997 to 2007. Currently the situation is fairly balanced, but it is unclear what direction trends will now take.



Prominent Problems

Low competitiveness of China's environmental goods

- 1. Environmental industry in China is still in the process of developing; thus, its technology and competitiveness in global market is relatively low (You and Wen, 2014).
- 2. Enterprises providing environmental services are often closely linked to the government and lack modern management systems.
- 3. Economic benefit is still low due to the small size of the enterprises.



Prominent Problems

Trade frictions and barriers between China and EU

- 1. Some of EU policies are considered to amount to 'green trade barriers' for the export of China's environmental goods (Luo Wei, 2012).
- 2. In the list of environmental goods from OECD, the applied tariff rate in developed countries is much lower than that in developing countries.



Future Development

• Environmental goods trade between China and EU has many benefits: it is conducive to the development of the environmental industry and enhancement of environmental technologies for both areas, also promotes China's domestic economic development and improve quality of life.

• However, liberalization and future development of the trade in environmental goods still requires mutual efforts.



Thank you ^_^