

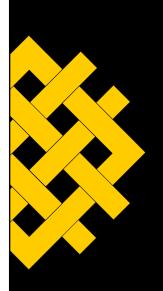
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## Non-Tariff Measures in Clean Energy: Next Steps for APEC

Submitted by: World Resources Institute



Trade Policy Dialogue on Environmental Goods Non-Tariff Measures Big Sky, United States 12 May 2011



# Non-Tariff Measures in Clean Energy: Next Steps for APEC

APEC Trade Policy Dialogue on Environmental Goods Non-tariff Measures

May 12<sup>th</sup>, 2010, Big Sky, Montana Lutz Weischer World Resources Institute

#### Agenda

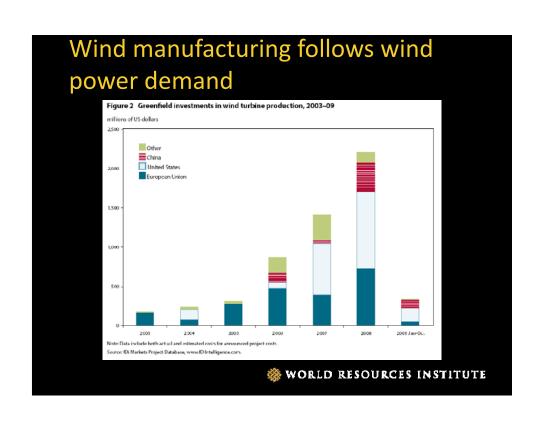
- Trade, investment and NTMs in wind power
- Trade, investment and NTMs in solar PV
- Next Steps for APEC

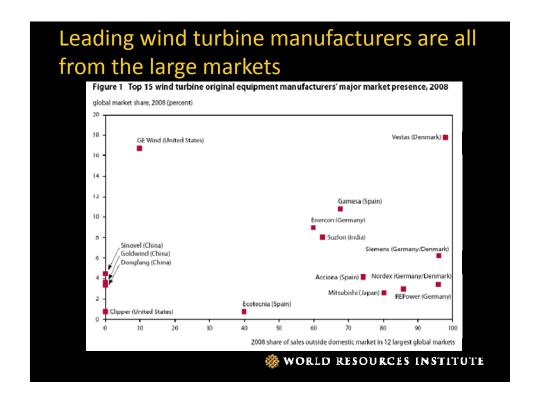
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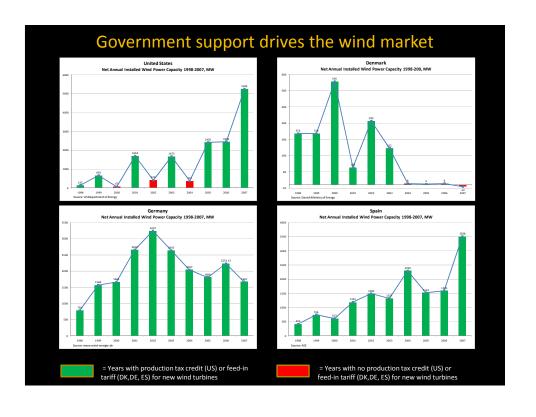
### The global wind power market

- 4 main wind power markets and equipment producers:
  - China
  - United States
  - European Union
  - India
- Investment-driven global integration
- Policy-driven market

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#### Relative importance of trade

- Global investment 2008: \$ 51.8 billion
- Global sales 2008: \$ 45 to 50 billion
- Global wind turbine exports (HS 850231) 2008: \$
   4.85 billion
- Trade volume (2006-2008): + >50%
- Project costs (2006-2008): + 20%
- Installed capacity (2006-2008): + 75%



#### Relatively low tariffs on wind turbines

Country	Average MFN applied duty	Average bound duty	Latest year of reporting	
Argentina	0.0	35.0	2004	
Australia	2.5	5.0	2009	
Bangladesh	0.0	n.a.	2005	
Brazil	0/(14)	35.0	2009	
Canada	0.0	6.2	2009	
Chile	6.0	25.0	2009	
China	8.0	8.0	2008	
Colombia	10.0	35.0	2009	
Costa Rica	0.0	45.0	2009	
Egypt	5.0	10.0	2007	
EU-27	2.7	2.7	2008	
India	7.5		2008	
India	12.5	25.0	2006	
India	25.0		2002	
Indon <del>es</del> ia	10.0	40.0	2007	
brael	0.0	9.2	2006	
Jepen	0.0	0.0	2008	
South Korea	8.0	na.	2008	
Malaysia	0.0	30.0	2001	
Mexico	10.0	37.5	2009	
Morocco	2.5	30.0	2002	
New Zealand	2.5	16.5	2008	
Philippines	1.0	20.0	2008	
Tarwan	10.0	10.0	2008	
Theiland	10.0	n.a.	2007	
United States	1.3	1.3	2008	

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#### Non-tariff barriers in the wind sector

- Local-content requirements
  - Have been used by Spain, Brazil, China, Canada
- Political quid-pro-quo expectations
  - Reflected in government procurement and approval processes
- Divergent Standards and Certification
  - Standards are crucial for trade and "bankability"
  - Many countries apply their own standards that are different from each other and from international standards



#### Agenda

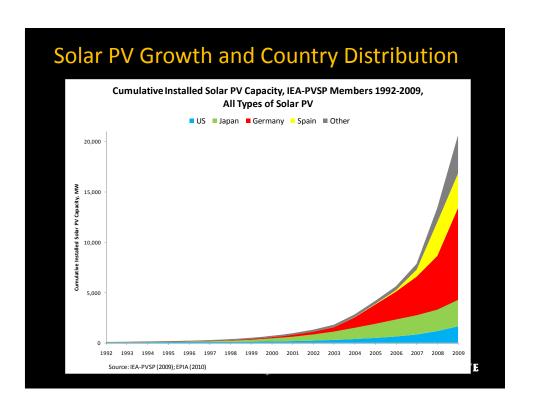
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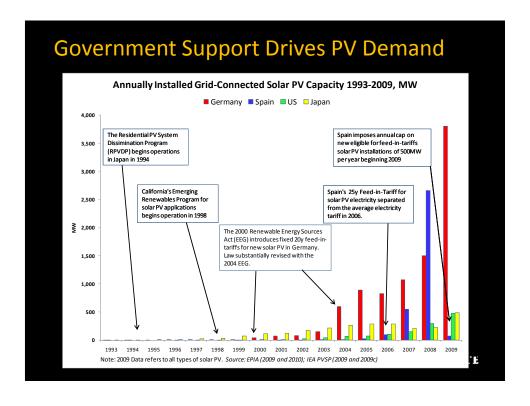


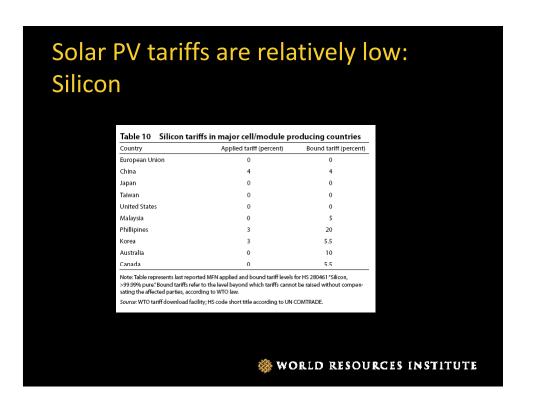
## The global solar PV market

- 4 main markets:
  - Germany
  - Spain
  - United States
  - Japan
- Manufacturing in Asia
- Trade-driven global integration
- Policy-driven market









## Solar PV tariffs are relatively low: equipment

T-1-1-11	Tauiffa fau aalaat	PV components i	
lable i i	iarims for select	PV components i	n maior markets

Countries (by installed capacity)	Cells and modules		Mounting structures (iron/steel)		Mounting stuctures (aluminum)		Static converters	
	applied	bound	applied	bound	applied	bound	applied	bound
European Union	0	0	0	0	6-7	6-7	0-3.3	0-3.3
Japan	0	0	0	0	3	3	0	0
United States	0	0	0	0	5.7	5.7	0-1.5	0-1.5
Korea	0	0	0	0	8	13	0-8	0-13
India	0	0	10	40	10	unbound	0-10	0-40
China	0	0	4	4	6	6	0-10	0-10
Australia	0	0	5	7.7	5	5	0-5	0-16

Note: The table gives applied MFN and bound tariff rates for the last year reported. All HS codes mentioned include more than solar PV components, i.e., only a small fraction of trade under each HS code is related to solar PV projects. HS codes included are HS 854140 ("Photosensitive/photovottaic/LED semiconductor devices"), 708990 ("Structures and parts of structures, iron or steel, not elsewhere specified"), 761090 ("Aluminium structures and parts not elsewhere specified"). Short HS code titles according to UN COMTRADE.

Source: for tariff information: WTO Tariff Download Facility.



## Non-Tariff Barriers in the solar PV sector

- Nontariff Surcharges and Taxes
  - Sometimes up to 15 percent, often temporary
- Customs Procedures and Inspection
  - Burdensome inspection or licensing requirements
  - Misclassification and Reclassification
- Explicit Local Content Requirements
- Implicit Political Quid-Pro-Quo Expectations
- Divergent Standards and Costly Certification Requirements



#### Agenda

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# Build a better understanding of technologies and barriers

 Additional studies and surveys for a broader set of technologies and with a regional APEC focus

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#### Addressing non-tariff barriers I

- Border surcharges and taxes
  - Commit to a phase out
- Customs procedures and classification issues
  - Provide technical assistance and training
- Standards
  - Continue SCSC work on solar standards
  - Address wind standards as a next step



#### Addressing non-tariff barriers II

- Policy dialogue on good practices in renewable energy support
- Help identify acceptable ways to support clean energy in a way that provides domestic economic benefits
- Involve:
  - government (different ministries),
  - private sector/industry associations,
  - independent experts/academia,
  - civil society experts/NGOs/consumer groups
- Build an evidence base on costs and benefits of existing policies



