

ADB

![](_page_0_Figure_2.jpeg)

- Continued reliance of Asian economies in terms of livelihoods (even if proportion of GDP is declining)
- High sensitivity of sectors to climate change
- Looming food and water insecurity
- Declining resource flows to both sectors
- Inter-relatedness
  - Food and water security vs. energy and social security
  - Biomass for energy is water-intensive
  - Desalination & energy use

![](_page_0_Figure_11.jpeg)

![](_page_0_Figure_12.jpeg)

![](_page_0_Figure_13.jpeg)

Guiding Principles for Adaptation Financing		
	<ul> <li>Fund Generation</li> <li>Adequacy</li> <li>Additionality</li> <li>Predictability (automatic accrual) and reliability</li> <li>Sustainability</li> </ul>	Fund Utilization         • Appropriateness (compensation not aid)         • DC Ownership         • Effectiveness (M&E metrics)         • Absorptive Capacity         • Governance         • Professionalism         • Accountability         • Transparency         • Dreast Strinivasan

![](_page_1_Figure_2.jpeg)

![](_page_1_Figure_3.jpeg)

![](_page_1_Figure_4.jpeg)

![](_page_1_Figure_5.jpeg)

![](_page_1_Figure_6.jpeg)

![](_page_2_Figure_1.jpeg)

![](_page_2_Figure_2.jpeg)

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### Proposed Funding Mechanisms for Adaptation in the Future Climate Regime beyond 2012

#### I. Global Market-based Levies

- Increasing levy on CDM (e.g. from 2 to 5%) \$0.3-1.7 b/year in 2020 (Bangladesh & Pakistan) 5% levy = \$200-750 M (2008-2012) Extending levy to other market mechanisms (IET and JI) 10-50 M
- (2008-2012); 300 M-2.25 B/year after 2012 Currency transaction development levy (Tobin tax) - 15-20 B/year
- Air travel and Shipping Levies
- International air travel levy @ \$ 7-10/ticket (\$8-14 B/year) (LDCs)
- Solidarity Tax on air travel (France)
- Levy on marine bunker fuels (\$4-15 B/year) (LDCs)
- Auctioning of allowances for international maritime and aviation emissions (\$22-40 B/year) (Tuvalu)
- Levy on REDD funds (5% ~ \$600 M)
- Agricultural carbon storage payments similar to REDD

![](_page_2_Figure_15.jpeg)

## **Other Proposed Funding Mechanisms** for Adaptation - 2

- II. Regional and National Market-based Levies (in **Developed countries**)
- · Auctioning a portion of Annex I emission allowances -\$15-25 B with 2% of AAUs (Norway)
- Levy on fossil fuel sales in Annex I (Tuvalu 2005)
- Portion of income from border tax adjustment measures (based on carbon intensity) by Annex I
- Auctioning a portion of EU-ETS allowances (\$2.3 billion/year by 2020)
- Business adaptation (e.g. EU wine industry CLAWINE)
- US Congress Boxer-Lieberman-Warner bill \$3-25 ADB
  - b/year (proposed but failed)

![](_page_3_Figure_10.jpeg)

### Waxman-Markey discussion draft (Section 491-496 p. 632) The American Clean Energy and Security Act of 2009

- Establishes an International Climate Change Adaptation Program within USAID, working with EPA and State
- Up to 1.5 billion tons of international offsets per year within the cap-and-trade system
- Dedicates resources to addressing the critical adaptation needs of poor and vulnerable countries
- Not more than 10% of the available funds can be spent in one country in any year
- At least 40% and up to 60% of the funds available to the Program shall be distributed to international funds created under the UNFCCC ADB

# **Other Proposed Funding Mechanisms** for Adaptation - 3

- III: National Market-based Levies in Developing countries
- Carbon tax
- Tax on exports of carbon-intensive products
- CSR
- Domestic aviation tax
- Portion of proceeds from energy production tax credits, investment tax credits, enhanced capital allowances, research and development tax credits ADB

## **Funding Mechanisms for Adaptation** and Disaster Risk Management

- Index-based crop insurance systems (India, Thailand)
- Weather hedges
- Catastrophe bonds
- · Combined micro-insurance and microcredit (loans linked to adaptation e.g., buying droughtresistant seeds)
- Note: Insurance can incentivize adaptation but it is not a panacea.

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# **Current Problems with** adaptation financing Funding is insufficient, unpredictable, unreliable, and voluntary (not obligatory) **Duplication** of activities Overlap (of objectives) among PPCR, AF, GEF funds Funding overlap among bilateral initiatives Level of harmonization? Competition among funds for donors

- Diversion from ODA
- Limited absorption (disbursement) capacity of the recipient governments

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