High-level Symposium on the United Nations Conference on Sustainable Development

Green Economy: the Win-Win Strategy Going Forward Dr. Sarah Liao

Environmental Sustainability and economic growth

Chekov :

"man has been endowed with reason & power to create....but he is only a destroyer. Forests keep disappearing, rivers dry up, wild lives become extinct, the climate ruined and the land grows poorer and uglier everyday! "

Green Economy:

- Economy can thrive without necessarily leading to environmental degradation
- Instead of narrow focus of GDP growth, Green Economy makes reference to alternative indicators of well being, delivery social & environmental goals simultaneously: poverty eradication and sustainable development
- Relevance in the urgency to combat climate change and energy security

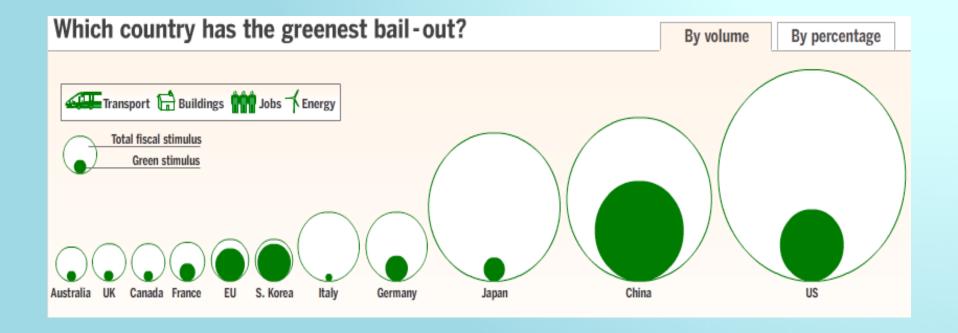
RIO + 20

- 1992: Earth Summit: Sustainable Development : Agenda 21
- RIO Summit: SD is a process of enhancing prosperity within the ecological limits of the planet earth. Green Economy is the vehicle to achieve that......
- RIO+20 non legally binding, accelerate action to bring about sustainable development (5)

Green Economy

- Reduce GHG (Carbon) and pollution emission
- Energy conservation in Buildings, industrial processes
- Sustainable transport
- Renewable energy
- Circular economy reuse, recycling, reduce
- Water conservation
- Sustainable agriculture
- Afforestation / ecological protection

Funding packages in 2008,2009



Globally: \$ 2,7 trillion

Asia: Europe: Americas

Table 1:	Green e	lements of	f economic	stimulus	nlans12

Country/Region	Fund \$b	Period	Green Fund \$b	% Green
Asia Pacific		ON THE RESERVE		
Australia	26.7	2009-12	2.5	9.3%
China .	586.1	2009-10	221.3	37.8%
India	13.7	2009		0%
Japan	485.9	2009-	12.4	2.6%
South Korea	38.1	2009-12	30.7	80.5%
Thailand	3.3	2009		0%
Subtotal Asia Pacific	1,153.8		266.9	23.1%
Europe				
EU	38.8	2009-10	22.8	58.7%
Germany	104.8	2009-10	13.8	13.2%
France	33.7	2009-10	7.1	21.2%
Italy	103.5	2009-	1.3	1.3%
Spain	14.2	2009	0.8	5.8%
UK	30.4	2009-12	2.1	6.9%
Other EU States	308.7	2009	6.2	2.0%
Subtotal Europe	634.2		54.2	16.7%
Americas	是是一种人们的		多以前是对19 条件30	建筑过剩,但是是这 人
Canada	31.8	2009-13	2.6	8.3%
Chile	4.0	2009		0%
US EESA	185.0	10 years	18.2	9.8%
US ARRA	787.0	10 years	94.1	12.0%
Subtotal Americas	1.007.8		114.9	11.4%
TOTAL	2,796		436	15.6%

Employment impacts

- South Korea: spending 30 billion\$ in "green" areas: protecting
 700000 workers from unemployment
- US (Center for American Progress): 100 bill \$ in green investments, saving 2 million jobs.
- Creation of Green collar industries estimate 5million jobs with proactive searching.
- Japan: sustainable development special areas in Yokahoma: circular economcy for vehicles, white electric goods, making use of obsolete steel plant government stimulus based on employment numbers.

Green Technology: Intellectual property rights and Technology transfer

nanotechnology Rare earth metal potential in battery development Wind energy :

- -scaling up ,environmental impact
- territorial arguments

Solar energy:

- solar concentrate
- -photovoltaic : beyond silicon

Recycling of waste materials: technically not so challenging but behavioral and social challenges: creation of green collar workers

Implementation Strategy

- Equal but differentiated responsibilities.
- Brazil decarboned its economy with biofuel
- USA corporate America : USCAP
- Europe: legislation to cut carbon emission
- Sweden: Carbon tax at \$150per ton
- Others: Testing grounds at Mega-events
- E.g low carbon economy: Beijing 2008 and London 2012 Olympic Games – Demonstrated zero emission at Shanghai Expo.

USA

- Existing subsidies for fossil fuels.
- Transport policy: SUVs to more efficient cars, public transport.
- LEED certification for buildings, manage people's expectations.
- Agriculture&forestry

China

- Incentive for clean energy, tariff change
- Public transport continues, car ownership barriers, electric vehicles
- New urban building energy saving models, people's acceptance.
- Sustainable agriculture :key to poverty eradication

Win-win Strategy -International

- LEVEL PLAYING FIELD
- Clear goals: set targets & indicators to allow civil society to easily hold government to account.
- Promote and educate public awareness: showcase success stories
- Building capacity and institutionalize
- Sustainable agriculture : poverty reduction

1993: Vaclav Smil:

"During the past four generations..... humans have learned more than all humans learned in all the preceding millennia about the complexity of the Biosphere, about its amazing resilience, about the ways of using and managing the ecosystems in sustainable ways......In the long run, the rise of environmental consciousness will have effects comparable to the consequences of the last three great Western transformations - the Renaissance, the Reformation and the Industrial Revolution......

Best wishes for Ri0+20 Thank you!