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An ILO view on the work program 'Impacts of the Implementation of Response Measures'

UNFCCC 38th SB session Bonn, 5 June 2013

The Green Jobs Programme of the ILO



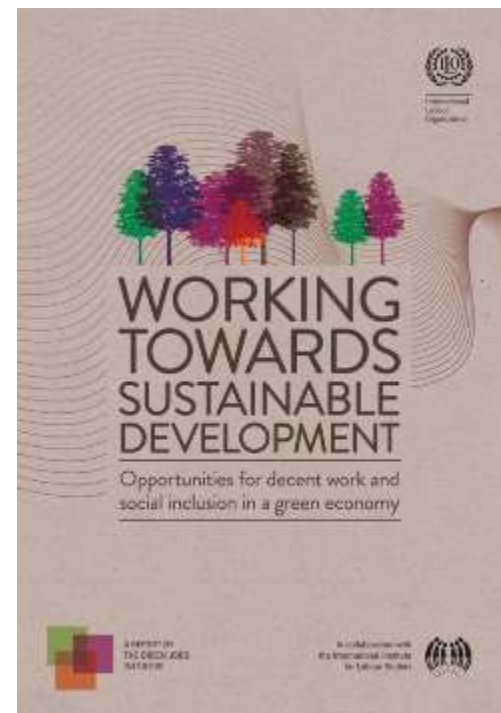
What is the employment effect of the transition?

Global net job gains possible:

- Growth 0.5 – 2 % of global workforce 2030
- = 15 – 60 m jobs (Aggregate country scenario)

National and sector assessments needed!

- REDD+:
 - US\$30 billion/y = 8m jobs in developing countries
- Renewable energy:
 - in 2010: 5 million (direct and indirect) + 20%/year
 - double 2006: 2.3 million
- Transition in developing countries? Leapfrogging!

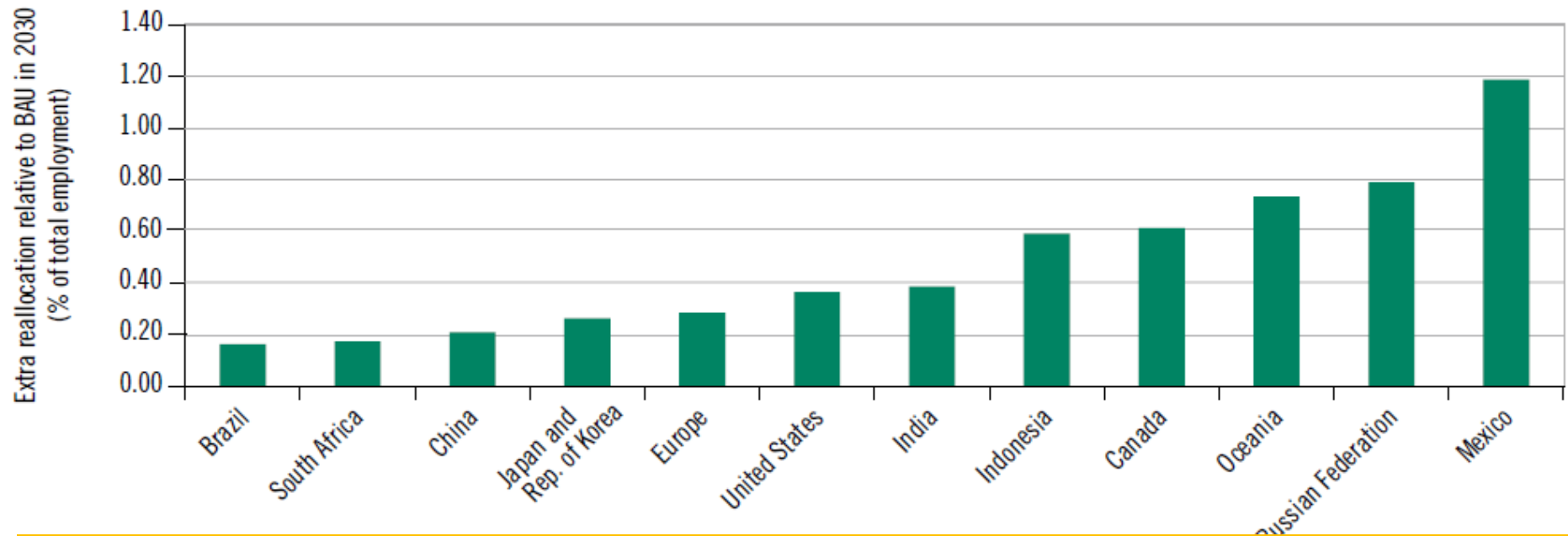




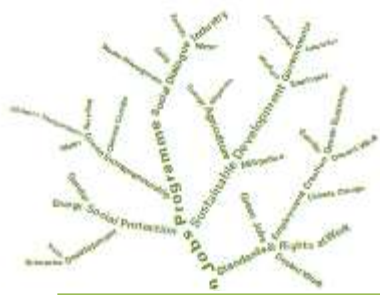
Understanding the magnitude first

Shifts between sectors: ~ 1% (globalization 20%)

Figure 4. Simulated increase in job reallocation associated with an ambitious climate change mitigation policy, selected countries
In % deviation from the business-as-usual (BAU) scenario in 2030



15 Industries account for 70% of emissions (EU&US 8-10% of jobs)
But high emitting sectors majority low vs. high skilled in RE



Country Assessments to know size and sectors of transition



Country	8 Sectors most affected	NET Green Jobs
China (2010)	<ol style="list-style-type: none"> 1. Agriculture 2. Fishery 3. Forestry 4. Energy 5. Manufacturing 6. Construction 7. Transport 8. Recycling 	30 million by 2020 (direct & indirect)
South Africa (2011)		450,000 by 2025 (direct)
Brazil (2008)		2.9 million in 2008 (direct)
Bangladesh (2010)		7.5 million in 2010 ONLY 800,000 DECENT
Mauritius (2011)		55,000 in 2011 (11% of total)
Lebanon (2011)		30,000 by 2020 (direct)
Mexico (2013)		1.3m direct in 2010 (3% of labor force)
	=> 50.1% labor force	

Mexico US\$8.6 bn RE invest: Job gain & loss?

8 most affected Subsectors (selected out of 86)	Employment	Output (1,000 peso)	Output multiplier (per 1m peso)	Employment Multiplier (per 1m peso)
Agriculture	5,100,460	244,020,699	1.25	22
Organic Agriculture	290,026	5,266,653	1.26	57
Forestry	123,178	22,185,749	1.20	6
Livestock y fisheries	1,555,795	110,832,285	1.75	19
Extraction of oil and gas	354,558	1,038,839,692	1.23	1
Conventional electric energy	64,441	106,230,778	2.19	(22,360) 2.6
Renewable electric energy	67,071	69,983,023	1.84	(+24,080) = +1720 2.8
Water and gas	139,951	22,986,995	1.57	8
Construction	5,212,546	804,604,071	1.67	9
Sustainable construction	572,496	60,561,597	1.67	12
Manufacturing (food & textile)	1,845,010	627,446,259	1.74	8
Green Manufact. (food&textile)	138,872	26,143,594	1.74	10
Manufacturing (raw materials)	935,913	271,529,729	1.58	5
Green Manufact. (raw material)	70,445	11,313,739	1.57	8
Manufact. petroleum/coal	66,732	129,538,130	1.97	1
Chemical Industry	240,987	181,294,044	1.81	3
Manufacturing (equipment)	1,885,374	730,689,547	1.33	4
Green Manufact. (equipment)	141,910	30,445,398	1.33	6
Commerce	9,389,055	2,001,147,745	1.36	6
Transportation	1,560,233	531,221,505	1.52	4
Public Transport	953,573	291,778,132	1.46	4
Waste management	11,928	3,395,351	1.73	5
Education	2,058,941	554,208,187	1.14	4
Sustainable Tourism	4,422	2,224,985	1.48	3
TOTAL (all sectors)	44,151,091	11,863,314,346	11,863,314,346	



1. Social dialogue
2. Skills for green jobs and retraining
3. Green enterprise development
4. Active labour policies (e.g info & matching)
5. Social protection (floor)

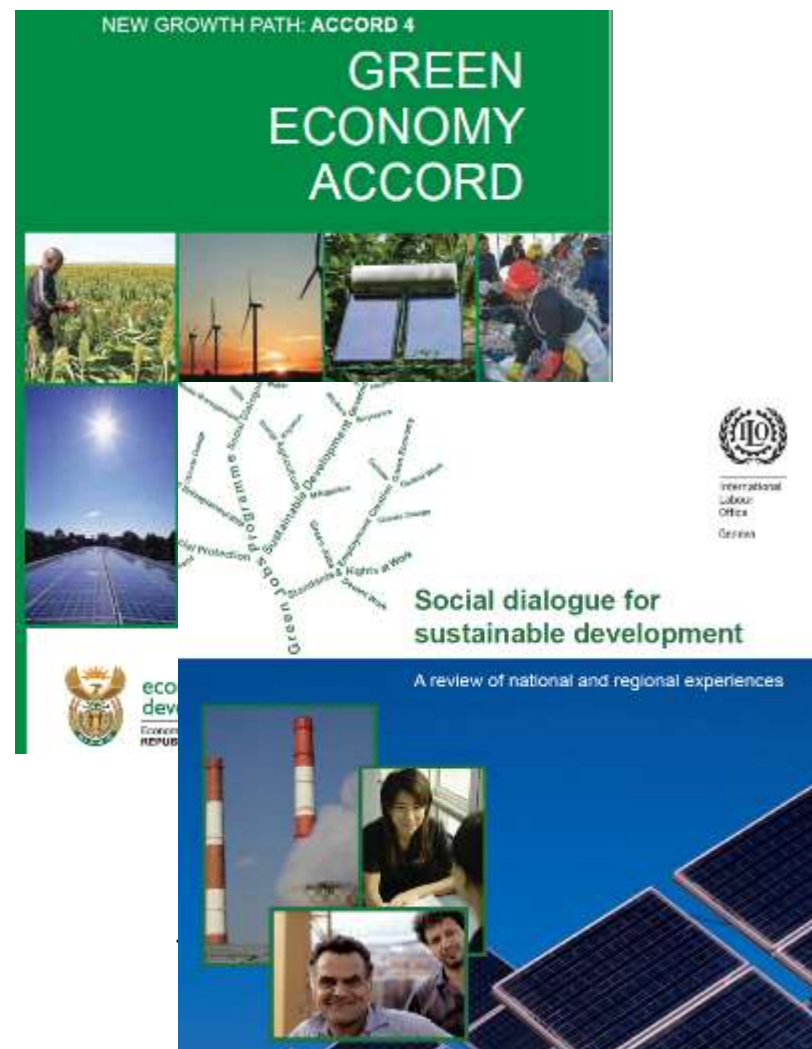


Social dialogue

S. Africa - Green Economy Accord

- Government, business and labour signed accord 2011
- Most comprehensive social partnerships on "green economy" in the world
- 300,000 new Green Jobs by 2020

Many other examples France (Grenelle), Spain (Kyoto), Germany (Building pact) etc.





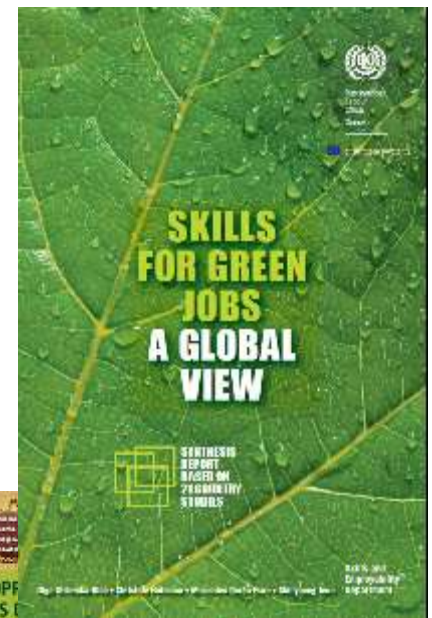
Skills training

Brazil 'My house-my life' social housing program

- 500,000 houses+ solar heating
- 40% saving energy bills
- + 30,000 jobs in manufacturing & installation

Bangladesh 'Solar System' 100,000 jobs by 2015

- Institutionalisation of training curricula in Technical and Vocational Institutions
- Job placement and linking trainees with renewable energy service providers
- Promoting solar entrepreneurship through business skills and finance





Green enterprise creation

ILO Facility: Green Youth Entrepreneurship 2010-2014



- East Africa: 70% youth unemployment
- Objective is 21,000 jobs for youth



Thailand

GREENER
BUSINESS ASIA

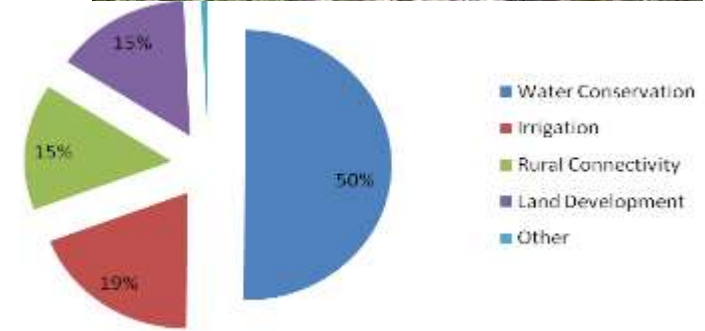
- Greening of hotel sector
- Energy efficiency through workplace cooperation



Social protection

India: NREGA

- US\$ 8 bill (only ~ 0.4% GDP)
- Benefit 59 million hh
- Adaptation, irrigation, reforestation



Poland: 1990-2006 restructuring

- 388,000=> 119,000 jobs
- Social program and retraining
- 75% transitioned to new jobs



4 key findings:

1. Jobs are at the heart of policy (To overcome the climate deadlock: let's discuss jobs not climate)
2. Transition policies needed but net employment gains in greening economy possible
3. Climate action can be pathway for reduced inequality and more social inclusion
4. Policy coherence essential: Coordinated social, economic and climate policies



Thank you very much!

For more information

www.ilo.org/green-jobs-programme