



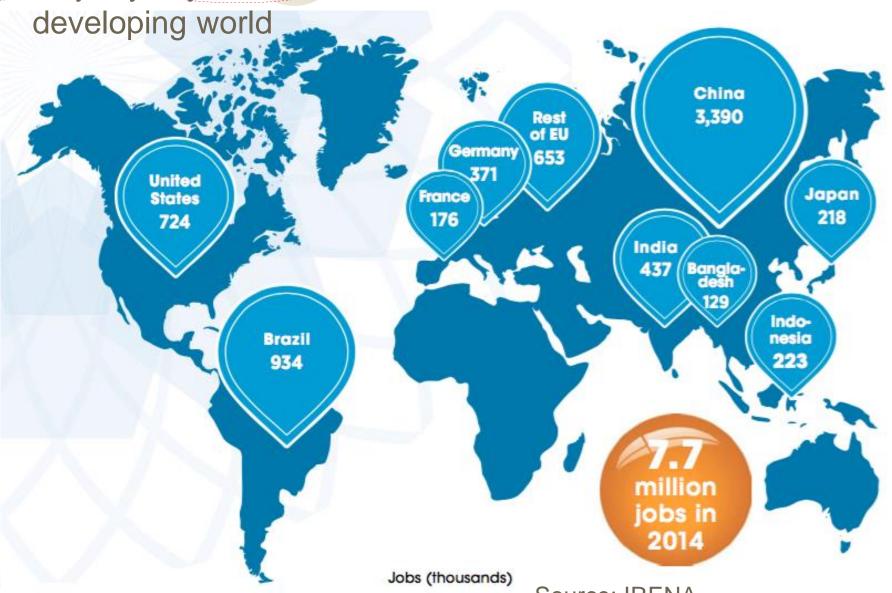
Analysis of Good Practice Countries

Framework and Findings

RE employment worldwide: majority of jobs in the







Source: IRENA

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Employment factors for RE





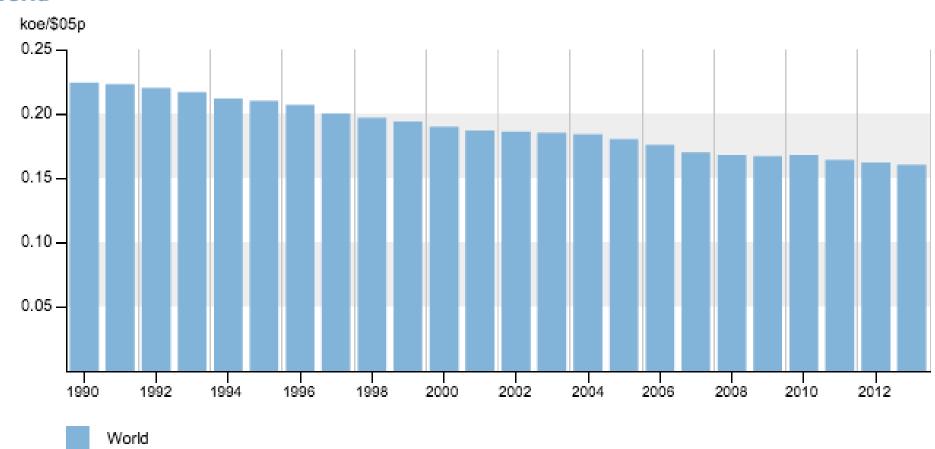
Technology	Jobs per newly installed MW	Jobs per MW (operation & maintenance)	Region & Year
Wind, onshore	6.0 - 27.0	0.5 - 0.7	South Africa 2007
	8.6	0.2	OECD average
Wind, offshore	18.1	0.2	OECD 2010
Solar PV	25.8 – 69.1	0.7	South Africa 2007
	17.9	0.3	OECD average
Solar CSP	18.0 – 36.0	0.5 – 1.3	South Africa 2007
	7.0 – 19.0	0.6 - 0.9	Spain 2010
Hydro, small	20.3	0.04	South Africa 2009
	20.5	2.4	OECD average
Geothermal	5.9	1.3	South Africa 2004
Biomass	7.7	5.5	South Africa 2000

Energy intensity worldwide (1990-2013)





World



Selection of good practice countries



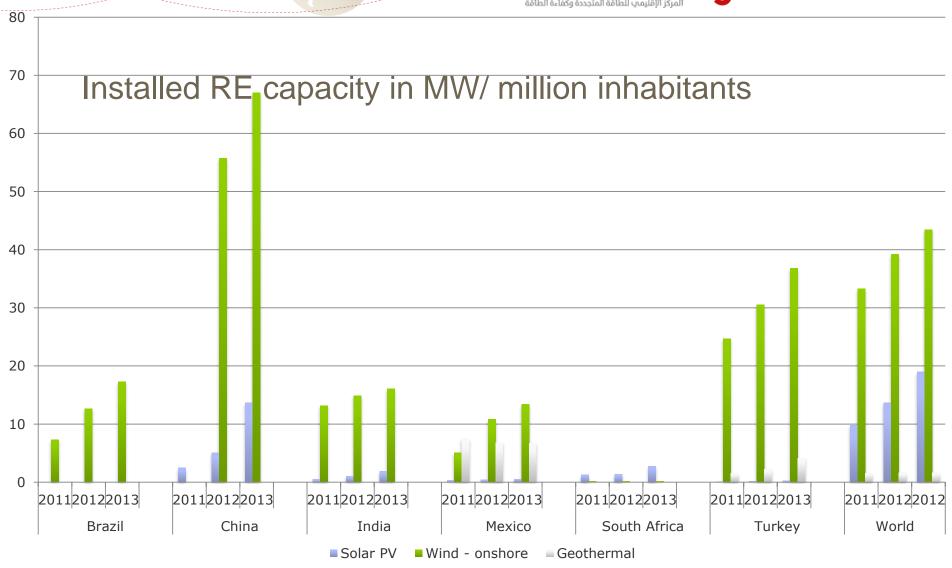


Criteria:

- Emerging economy
- Relative market size of RE or EE technologies
 - Installed capacity of RE technologies and capacity under construction
 - pace of market growth in these markets & project pipelines
 - Energy intensity of industry
- Or: Employment in RE / EE
 - However: Lack and often poor quality of data
- Or: Strategies in place
- ⇒ Turkey, India, China, Mexico, South Africa, Brazil













Country	Energy intensity in 2011 (EU=100)	Annual improvement of industrial energy intensity (2000-2011)
Turkey	67	2,5
Mexico	65	2,5
Brazil	213	0,0
India	192	1,6
China	234	1,9
South Africa	215	1,0







Selection of Cases: Employment

- China: 350.000 Jobs in wind energy, 1.6 Mio jobs in PV,
- Turkey: 81.000 Jobs in wind energy
- Brazil: 32.000 Jobs in wind energy, 30.000 in PV, 12.000 in hydropower
- India: 110.000 jobs in PV
- South Africa: 15.000 jobs in PV, 3600 jobs in wind energy
- ⇒ Lack of data in Energy efficiency and for many countries

Analysis of good practice countries RCREEE.





- What is the outcome?
 - E.g. development of RE capacities and employment over time
- What are the systemic conditions?
 - E.g. Natural conditions, political system, financial system, sociodemographic situation
- What strategies are in place?
 - E.g. Goals, horizontal and vertical coordination, participation, work program, capacities, evaluation and monitoring
- What policy instruments have been adopted?
 - Supply, demand and market mechanisms including framework conditions
- What is the outlook?
 - Expected development of markets & local employment







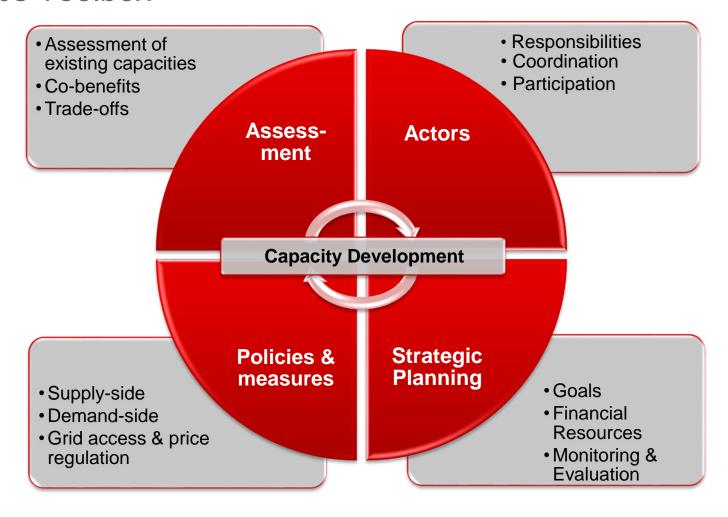
Good practice analysis key findings: No silver bullet

- Some countries are more successful in creating RE/EE employment – Why?
 - Markets and employment depend on a range of conditions to develop (and create domestic value added)
 - A broad coalition of actors are involved in these processes
 - There is no "silver bullet" but certain recurring issues that need to be considered
 - We find different options on how these issues are being tackled:
 There is no one fits all solution. They need to fit with the overall context.
 - Key elements are: Strategy, Commitment, Implementation and Capacities





SE4Jobs Toolbox



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