

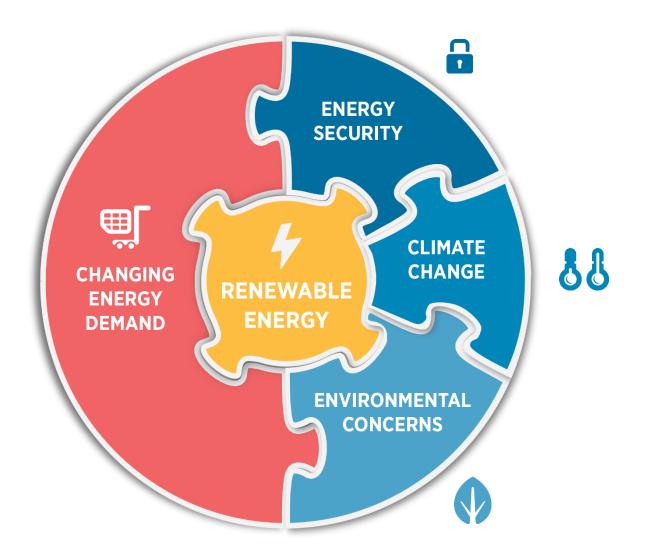
REthinking Energy



The Role of Renewable Energy in Addressing Climate Change
10 December 2014
Lima, Peru

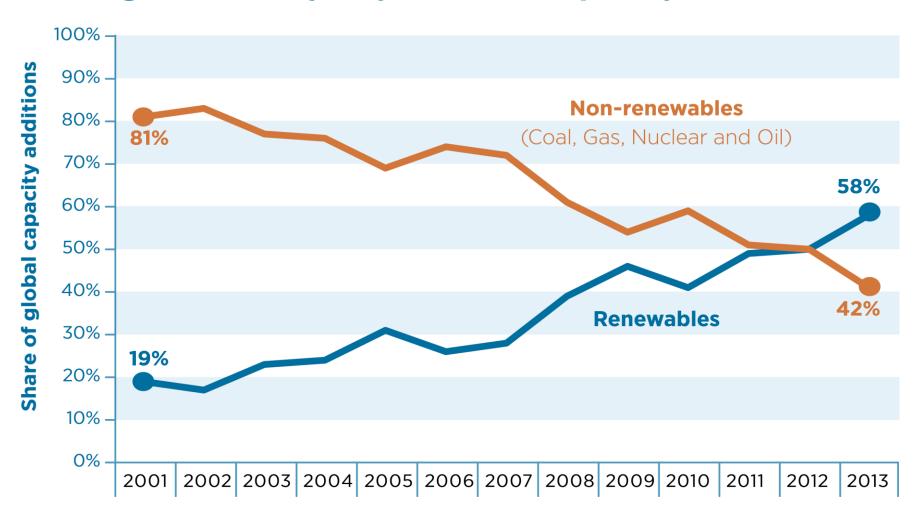


The World of Energy is Transforming



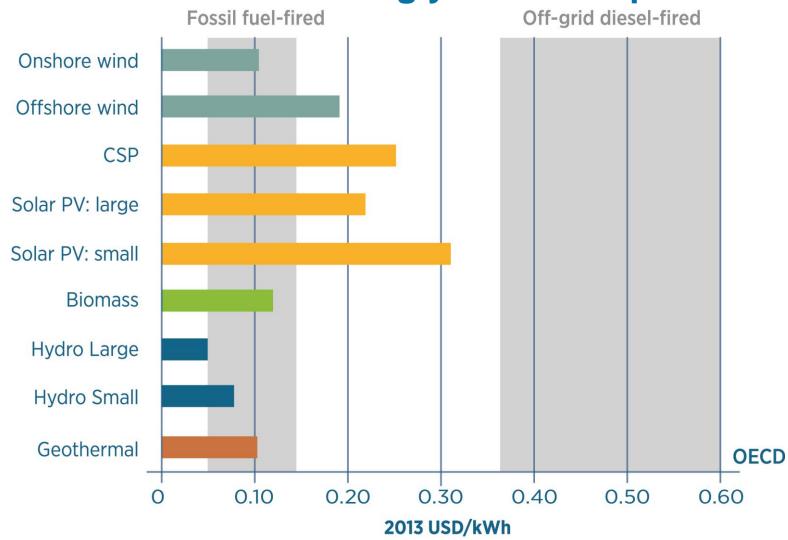


Moving to the Majority in New Capacity Additions



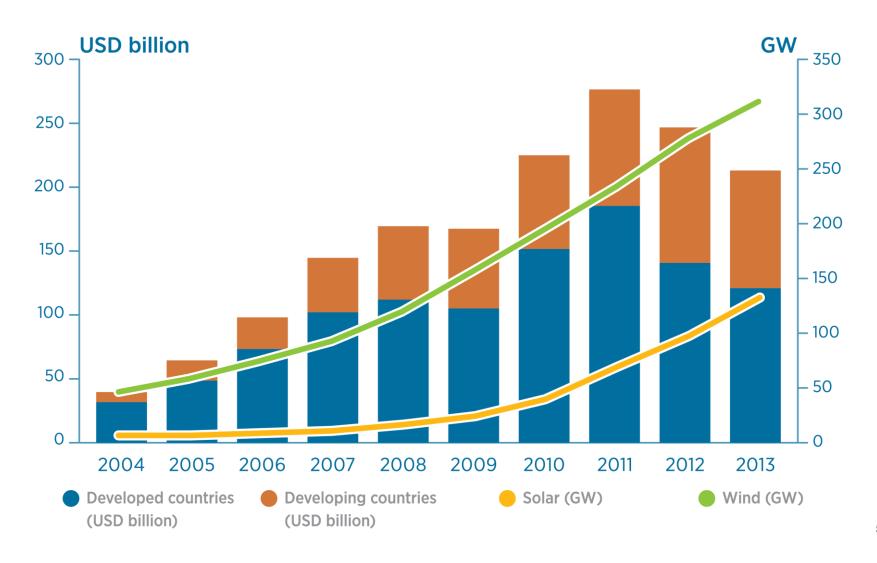


Renewables are Increasingly Cost-Competitive





Global Investment in Renewable Energy





Financing Renewables is Getting Cheaper & Easier

Project developers, venture capital, government grants

Commercial banks, multi-lateral institutions

Institutional investors

New players





New Investors, New Owners & New Players



By mid-2014, green bonds had already been issued for over \$16bn to finance renewable energy projects



13 hours

Dutch households raised \$1.7 million in just 13 hours to buy shares in a cooperatively-owned wind turbine



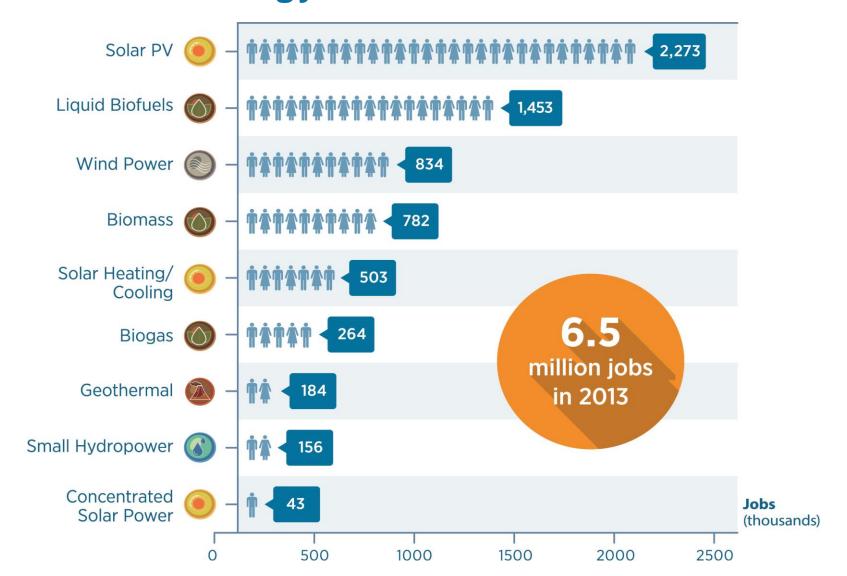
Google has invested over \$1.4 billion in wind and solar because it also generates "attractive financial returns"



Nearly half of all renewable energy capacity in Germany is owned by individuals and farmers



Renewable Energy Jobs





Renewable Energy Sector: No Longer a Niche





Socio-Economic Benefits of Renewables

6.5 million



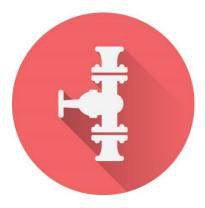
In 2013, 6.5 million people worked in renewables worldwide

\$52 bn



China's PV industry generated \$52 billion in income in 2013

\$2.8 bn



Spain avoided \$2.8 billion in fossil fuel imports in 2010

13 million



In Bangladesh, 13 million people gained energy access through solar PV



Environmental Advantage of Renewables

7 million



7 million premature deaths linked to air pollution annually

2020 ban



Beijing announced a ban on coal use beyond 2020 to cut air pollution

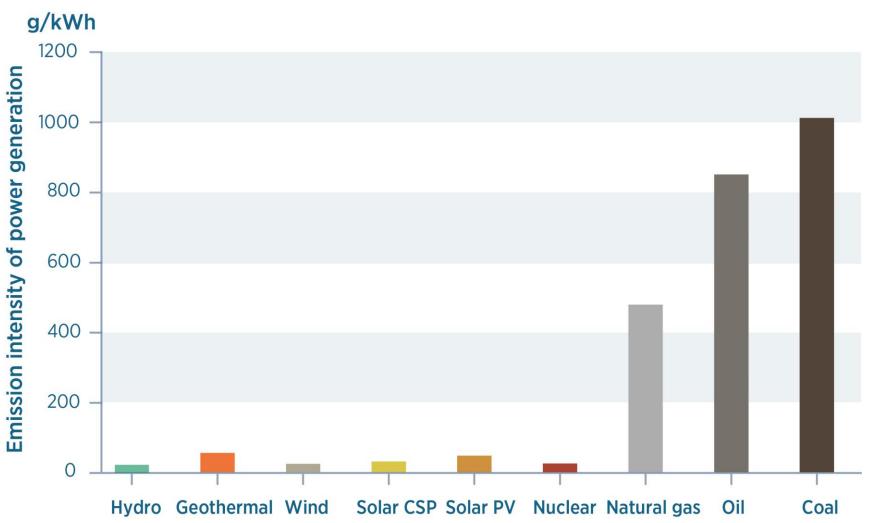
250x



Renewables are up to 250 times less carbon intensive than coal

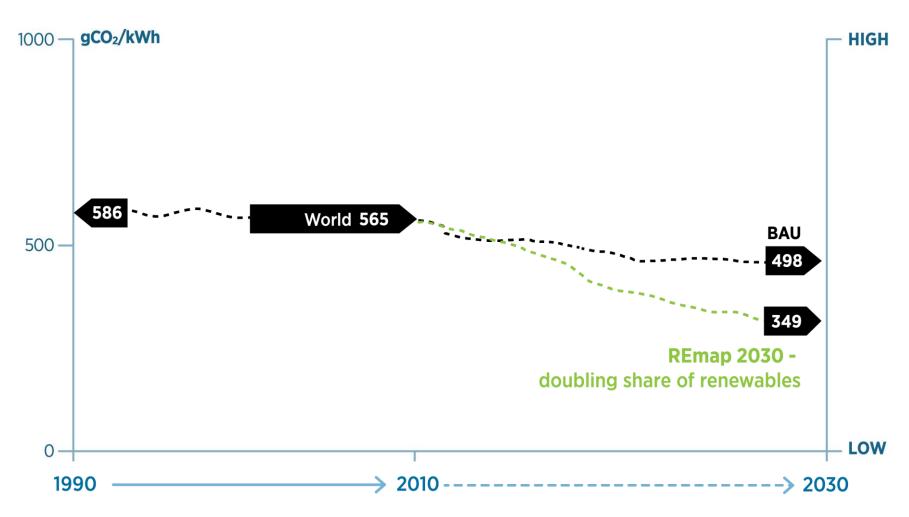


Renewable Energy: The Low-Carbon Advantage





Keeping Global Warming to 2°C





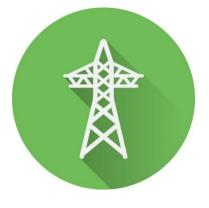
Recommendations for a Renewable Future



SYSTEM LEVEL APPROACH



IMPROVING MARKET CONDITIONS



PLANNING FOR INTEGRATION