

Regional cooperation on renewable energy



Brainstorming workshop
Paris, France
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REN21 is a multi stakeholder network dedicated to the rapid uptake of renewable energy worldwide.

Science & Academia:

IIASA, ISES, SANEDI, TERI, Fundacion Bariloche, NREL

NGOs:

CURES, GFSE, Greenpeace,
ICLEI, ISEP, JREF, RCREEE,
WCRE, WFC, WRI, WWF

Industry Associations:

ACORE, ARE, CEC, CREIA, EREF,
GWEC, IGA, IHA, IREF, WBA,
WWEA



International Organisations:

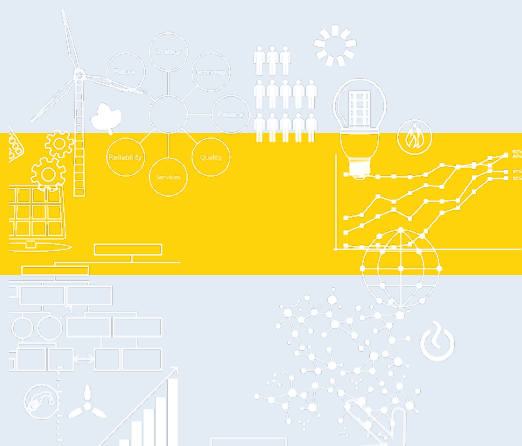
ADB, EC, ECREEE, GEF, IEA,
IRENA, UNDP, UNEP,
UNIDO, World Bank

National Governments:

Brazil, Denmark, Germany,
India, Norway, South Africa,
Spain, UAE, United States of
America

REN21: Support the rapid uptake of renewables worldwide

- Providing high quality information on renewables
- Developing networks, expanding outreach efforts
- Catalysing discussion and debate

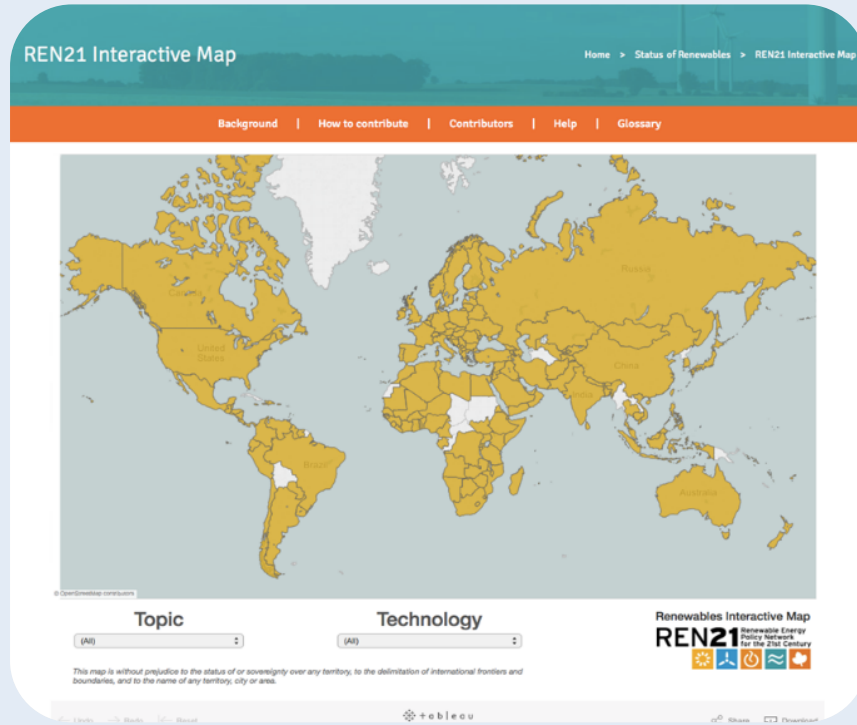


REN21 Renewables 2015 Global Status Report



- Launched 18 June 2015
- Network of over 500 contributors, researchers & reviewers worldwide
- The report features:
 - Global Overview
 - Market & Industry Trends
 - Investment Flows
 - Policy Landscape
 - Distributed Renewable Energy for Energy Access
 - Energy Efficiency
 - Feature: Using Renewables for Climate Change Adaptation

New REN21 Renewables Interactive Map



- New!
- Sourced from over **7000 data lines**
- Data are:
 - constantly updated
 - represents up-to-date information on renewable energy

www.ren21.net/map

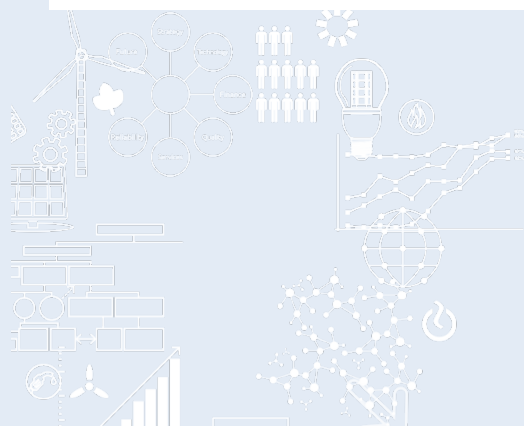


Renewable Energy “Champions” - annual investment/capacity additions

ANNUAL INVESTMENT / NET CAPACITY ADDITIONS / PRODUCTION IN 2014

	1	2	3	4	5
Investment in renewable power and fuels (not including hydro > 50 MW)	China	United States	Japan	United Kingdom	Germany
Investment relative to annual GDP ¹	Burundi	Kenya	Honduras	Jordan	Uruguay
 Geothermal power capacity	Kenya	Turkey	Indonesia	Philippines	Italy
 Hydropower capacity	China	Brazil	Canada	Turkey	India
 Solar PV capacity	China	Japan	United States	United Kingdom	Germany
 CSP capacity	United States	India	—	—	—
 Wind power capacity	China	Germany	United States	Brazil	India
 Solar water heating capacity ²	China	Turkey	Brazil	India	Germany
 Biodiesel production	United States	Brazil	Germany	Indonesia	Argentina
 Fuel ethanol production	United States	Brazil	China	Canada	Thailand

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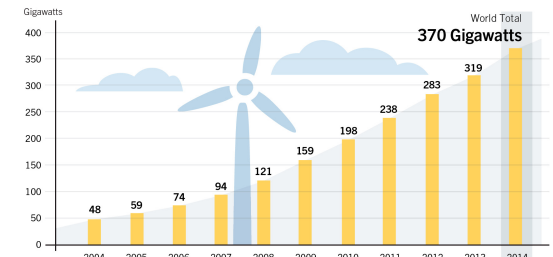
Increasing Penetration of Renewables

Global installed capacity and production from all renewable technologies have increased substantially

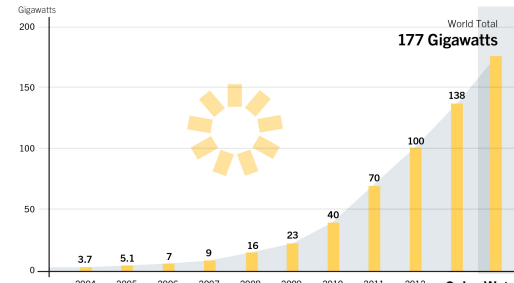
Significant cost reductions for most technologies

Supporting policies spread throughout the world

Wind Power Global Capacity, 2004–2014



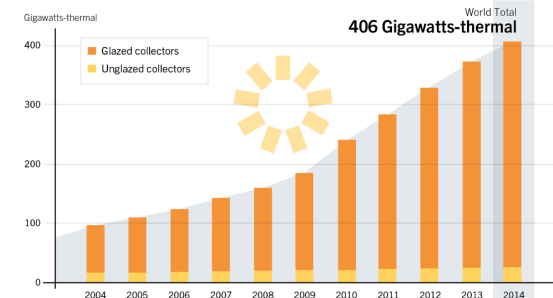
Solar PV Global Capacity, 2004–2014



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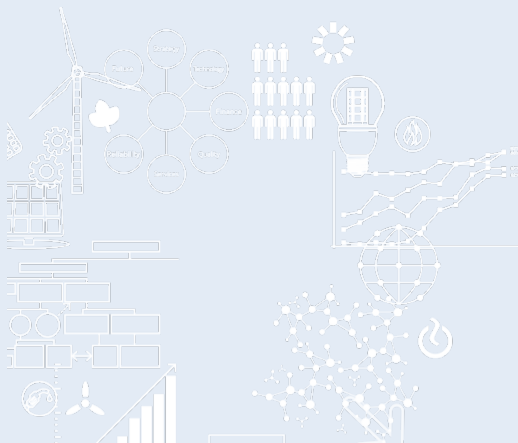


Solar Water Heating Collectors Global Capacity, 2004–2014



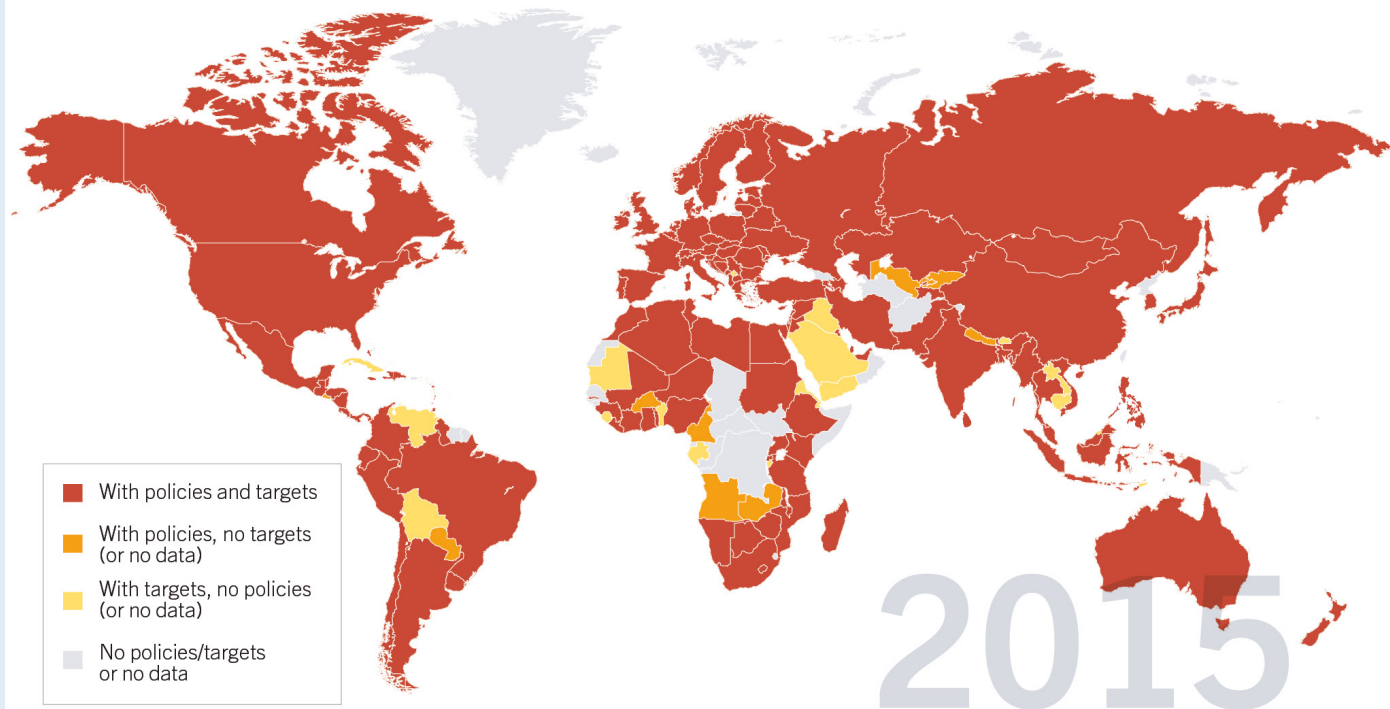
Data are for solar water collectors only (not including air collectors).

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Renewable Energy Policy Landscape

Countries with Renewable Energy Policies and Targets, Early 2015

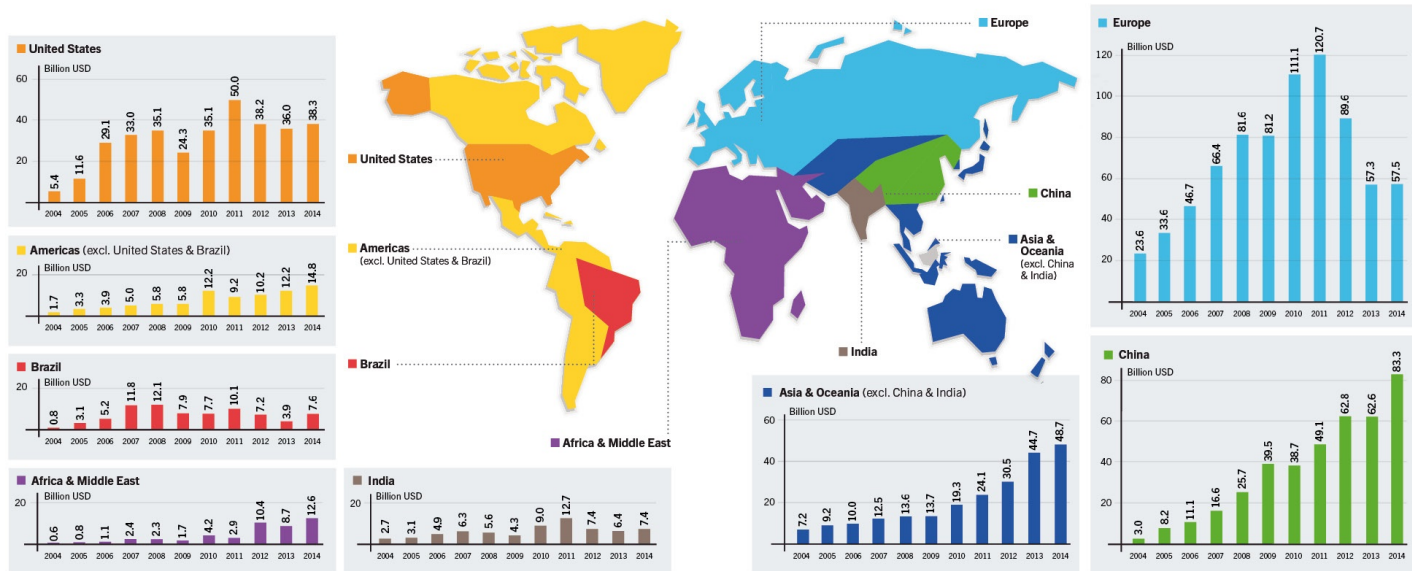


Countries are considered to have policies when at least one national or state/provincial-level policy is in place.

REN21 *Renewables 2015 Global Status Report*



Global New Investment in Renewable Power and Fuels, by Region, 2004–2014



Data include government and corporate R&D.

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Source: Frankfurt School–UNEP and BNEF



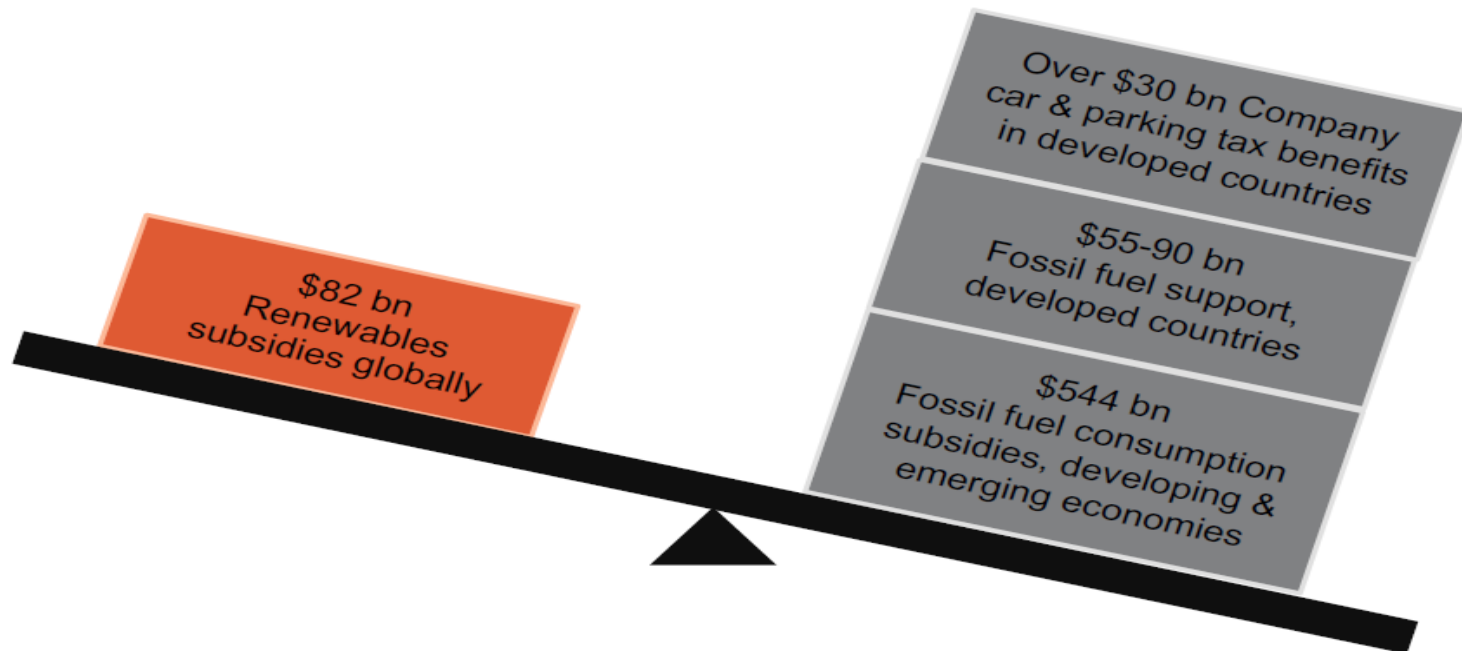
Developed Countries: Annual investment in 2014: **USD 138.9 billion**
(increase of 3 % compared to 2013)

Developing Countries: annual investment in 2014: **USD 131.3 billion**
(increase of 36% compared to 2013)



Why do we have to support renewables?

ELIMINATING ENVIRONMENTALLY HARMFUL SUBSIDIES - ENERGY



Sources: OECD (2013), Inventory of Estimated Budgetary Support and Tax Expenditures for Fossil Fuels; IEA (2013), World Energy Outlook; IEA (2013), OECD (2014, forthcoming)

Evolution

- Increase in regional initiatives
- Development of regional initiative and policies requires joint baseline
- In response -> development of regional reports:
 - **ECOWAS:** launched November 2014
 - **SADC** : to be launched at SAIREC, October 2015
 - **UNECE:** launched at COP21, December 2015
 - **EAC:** to be launched in spring 2016



REN21 flagship products



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