



2012 INTERNATIONAL YEAR OF
SUSTAINABLE ENERGY
FOR ALL



Global Renewable Energy Policy Perspectives

Revisions 2012 – New Renewable Direction for Japan

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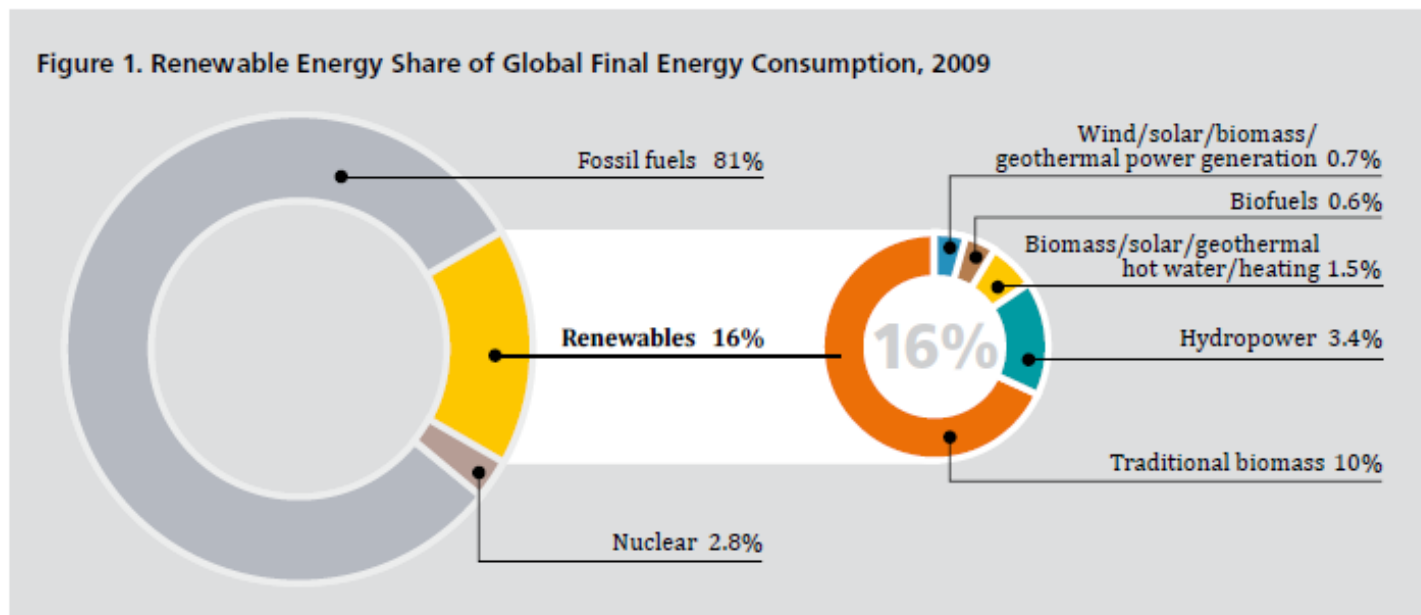
Tokyo, 9th March 2012

About REN21

- **Multi-stakeholder** Policy Network grouping: national to local governments, industry, academia, INGOs, NGOs, civil society
- **Rationale:** enable a **rapid global transition to renewable energy.**
- **REN21's Mission:** promote policies for worldwide renewable energy expansion through
 - objective **policy guidance**
 - high quality **information**
 - **exchange** among relevant actors

Renewable Energy in 2010

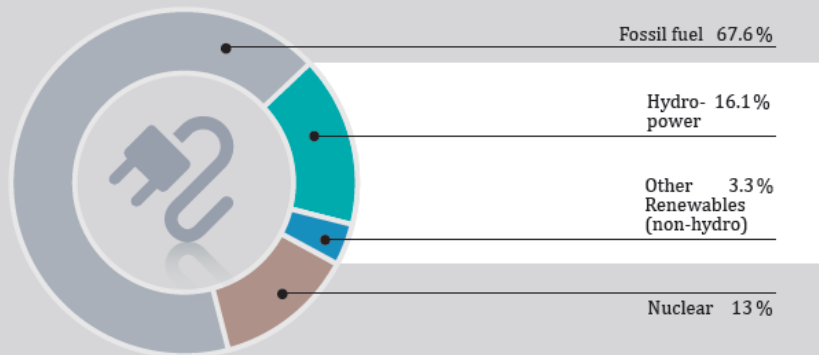
Renewables 2011 Global Status Report



- In 2009, RE supplied an estimated **16%** of **global final energy consumption**
- Global energy consumption **rebounded** in 2010 (+5,4%) after downturn in 2009
- **UN Secretary General's goal** : doubling the share of renewable energy in the global energy mix by 2030

Global Market Overview – Power Markets

Figure 3. Renewable Energy Share of Global Electricity Production, 2010



Source: See Endnote 6 for this section

- Renewable electric power capacity worldwide reached **1,320 GW (+8%)** in 2010
- Renewable capacity comprises about **25 % of total global power-generating capacity**
- Renewable energy delivered close to **20% of global electricity production**
- RE accounted for roughly **half** of the 194 GW of **new power generating capacity**

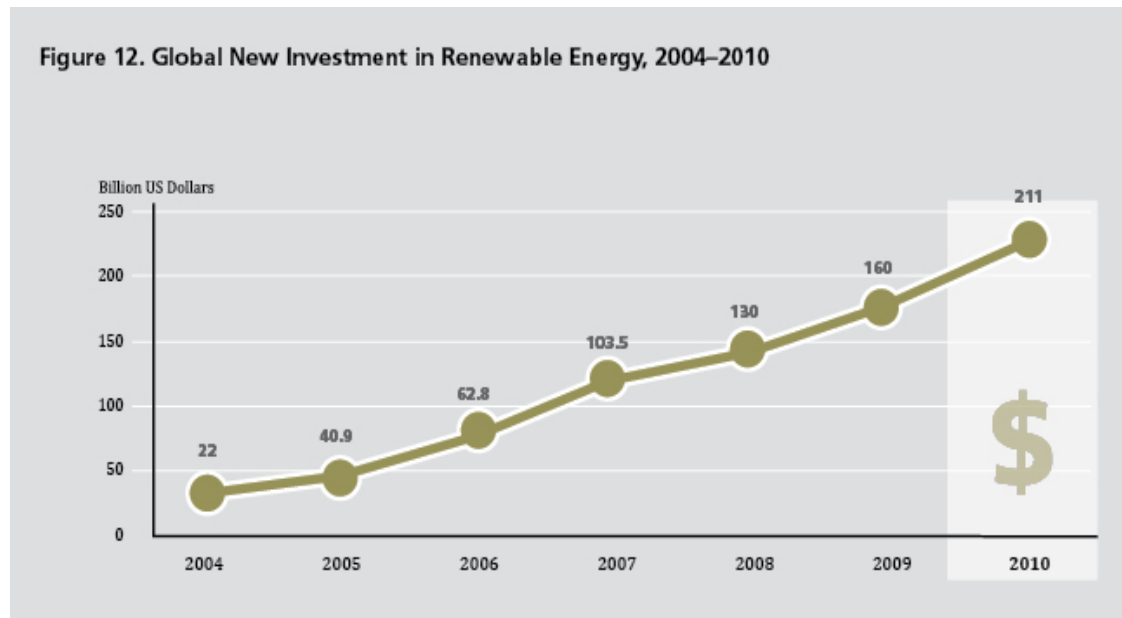
- **Heating and Cooling**

- Modern biomass accounts for the largest share of renewable heating, followed by solar thermal and then direct geothermal heat.
- Trends toward increasing use for industrial heat, and use of solar for cooling, ground-source heat pumps.

- **Transport**

- RE used in form of electricity, hydrogen, biogas, liquid biofuels.
- Limited but growing quantities of biogas and electricity in some countries.
- Biofuels accounted for 2.7% of global road transport fuels in 2010.

Investment Flows



Source: UNEP/Bloomberg: Global Trends in Renewable Energy Investment 2011

- Total global investment in RE jumped in 2010 to a record of **\$211 billion** and exceeded:
 - **\$226 billion** including estimated **\$15 billion** invested in solar hot water
 - **~\$270 billion** including the **\$40–45 billion** invested in large hydropower (>50 MW).

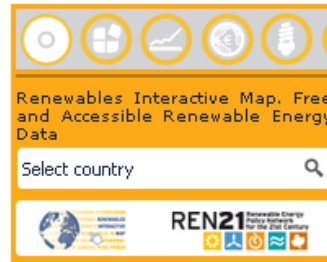
Policy Landscape

Policy Targets

- Doubling of countries with RE targets or policies in five years: **55** in 2005 to **118** in early 2011.
- Targets in at least **96 countries**; more than half are **developing countries**.
- Many targets and policies also exist at **state, provincial** and **local** levels.
- Targets represent commitments to:
 - **Shares of electricity** (typically 10–30%)
 - **Total primary energy**
 - **Heat supply**
 - **Installed capacities** of specific technologies,
 - **Shares of biofuel** in road transport fuels over 1-2 decades.
- **Targets together with well-defined action plans are a valid means to drive progress in renewable energy, e.g. India Solar Mission of 20 GW solar power by 2020, binding 20 % renewable energy target of the European Union, etc.**

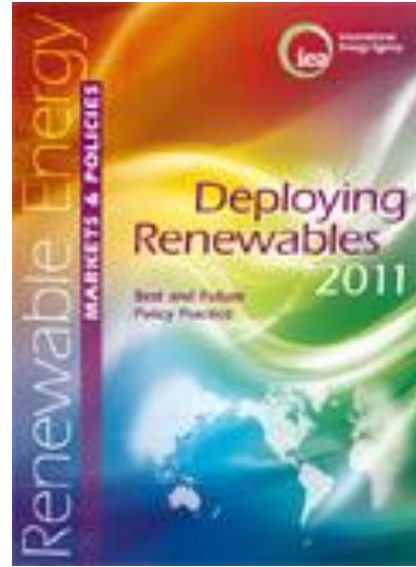
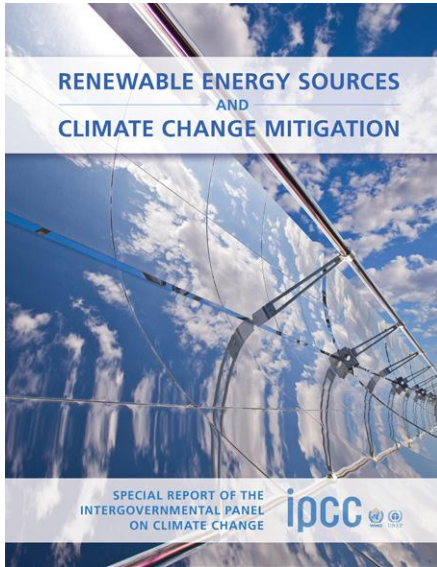
Renewables Global Status Report & Renewables Interactive Map

Annual publication since **2005**
Comprehensive overview of
global renewable energy
situation & **key trends**



*Global Market Overview,
Investment Flows, Industry Trends,
Policy Landscape, Rural Renewable Energy*
team of over **150 researchers & reviewers**

The future of renewable energy – what is in the cards?



- SREN report (IPCC): close to 80 percent of the world's energy supply could be met by renewables by mid-century if backed by the right enabling public policies.
- Deploying Renewables 2011 (IEA): renewables are now the fastest-growing sector of the energy mix and offer great potential to address issues of energy security and sustainability.
- Energy [R] evolution (Greenpeace): provides a detailed practical blueprint for cutting carbon emissions while achieving economic growth by replacing fossil fuels with renewable energy and energy efficiency.

Context of REN21 Global Futures Report

- Tool to facilitate dialogue on the future of renewable energy
- Aims at providing a simple overview on how the future of RE is currently seen by prominent experts, governments, and institutions
- Contains analysis of scenarios
- Based on more than 150 interviews conducted around the world
- Considered a sister report to the REN21 Global Status Report
- Lead Author, Dr. Eric Martinot, REN21/ISEP
- First review draft available



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