

A Decade of Renewable Energy Growth Surpassing Expectations

Projected levels of renewable energy for 2020 were already surpassed by 2010.

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

Significant cost reductions for most technologies

Supporting policies spread throughout the world.



		START 2004 ¹	END 2012	END 2013
INVESTMENT				
New investment (annual) in renewable power and fuels ²	billion USD	39.5	249.5	214.4 (249.4)
POWER				
Renewable power capacity (total, not including hydro)	GW	85	480	560
Renewable power capacity (total, including hydro)	GW	800	1,440	1,560
Hydropower capacity (total) ³	GW	715	960	1,000
Bio-power capacity	GW	<36	83	88
Bio-power generation	TWh	227	350	405
Geothermal power capacity	GW	8.9	11.5	12
Solar PV capacity (total)	GW	2.6	100	138
Concentrating solar thermal power (total)	GW	0.4	2.5	3.4
Wind power capacity (total)	GW	48	283	318
HEAT				
Solar hot water capacity (total) ⁴	GW _{th}	98	282	326
TRANSPORT				
Ethanol production (annual)	billion litres	28.5	82.6	87.2
Biodiesel production (annual)	billion litres	2.4	23.6	26.3

Data source: REN21 Renewables 2014 Global Status Report

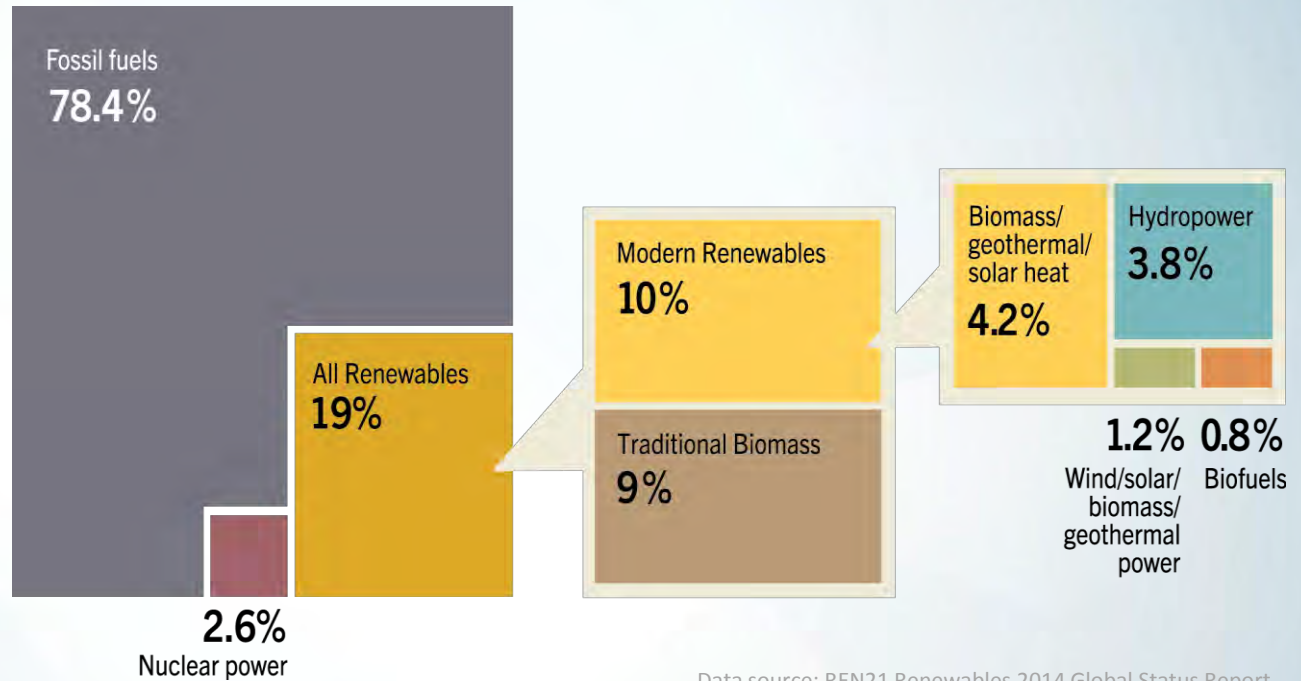
Renewable Energy in the World

Renewable energy provided an estimated **19% of global final energy consumption** in 2012.

The share of **modern renewable energy** increased to **10%**.

The share of **traditional biomass** was of **9%**.

Estimated Renewable Energy Share of Global Final Energy Consumption, 2012



Data source: REN21 Renewables 2014 Global Status Report



Bioenergy

Total primary energy consumption of biomass was approx. **57 EJ in 2013**.

Modern biomass **heat capacity: 296** GW_{th} (increase of 1 %)

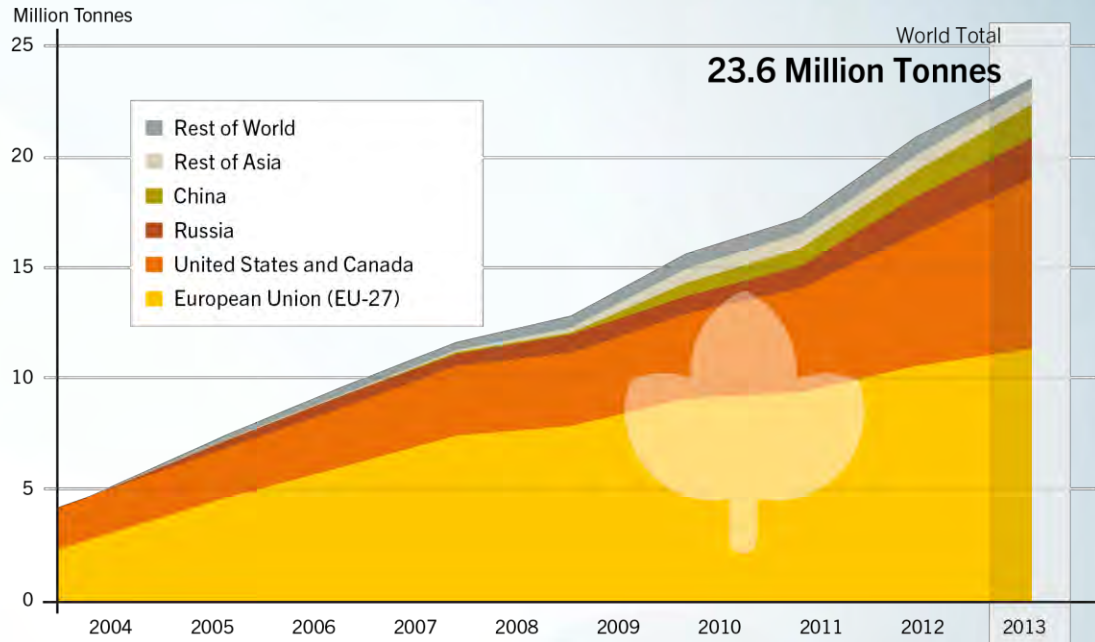
Global **bio-power capacity: 88 GW** (increase: + 5 GW)

Europe continued to be the world's largest consumer of modern bio-heat in 2013.

Europe was also the largest consumer of wooden pellets, burning over 15 million tons in 2013.



Wood Pellet Global Production, by Country or Region, 2004–2013



Data source: REN21 Renewables 2014 Global Status Report

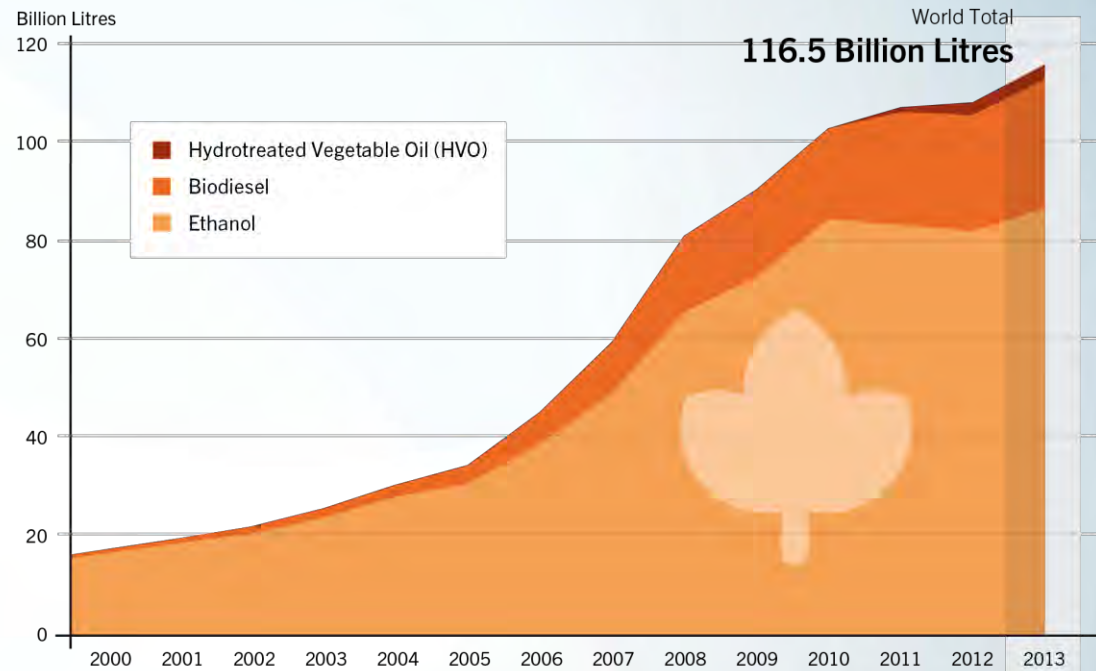
Bioenergy – liquid biofuels

Liquid biofuels met **2.3%** of global transport fuel demand.

Global production rose by 7.7 billion litres to **116.6 billion litres**.

Investment in biofuel plant capacity continued to decline from its 2007 peak.

Ethanol, Biodiesel, and HVO Global Production, 2000–2013



Data source: REN21 Renewables 2014 Global Status Report

