



Energy Statistics for Sustainable Development Goals

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Sustainable Development Goals

- The 2030 agenda for sustainable development is the global framework for 2015-2030
- Adopted in 2015 by the United Nations General Assembly as a continuation of the so-called Millennium Project and its eight Millennium Development Goals.
- The 2030 agenda contains 17 sustainable development goals (SDGs).
- One of them is dedicated specifically to energy. It is the Goal 7: “Affordable and Clean Energy - Ensure access to affordable, reliable, sustainable and modern energy for all” by 2030.
- Goal 7 contains five targets:
 - Ensure universal access to affordable, reliable and modern energy services
 - Increase substantially the share of renewable energy in the global energy mix
 - Double the global rate of improvement in energy efficiency
 - Enhance international cooperation to facilitate access to and investment in clean energy
 - Expand infrastructure and upgrade technology for supplying sustainable energy services



Progress in All SDGs ‘Fueled’ by Energy



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- Energy is a catalyst, a driver of change, a golden thread that weaves through all 17 SDGs
- No progress in any SDG would be truly possible without modern and sustainable energy.
- Several SDGs are particularly dependent on energy, such as:
 - Goal 1 (no poverty)
 - Goal 2 (zero hunger),
 - Goal 6 (clean water and sanitation)
 - Goal 8 (work and economic growth)
 - Goal 9 (industry, innovation and infrastructure)
 - Goal 11 (sustainable cities)
 - Goal 13 (climate change).



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SDG7 – Targets and Indicators

Target	Indicator
7.1 - By 2030, ensure universal access to affordable, reliable and modern energy services	7.1.1 - Proportion of population with access to electricity 7.1.2 - Proportion of population with primary reliance on clean fuels and technology
7.2 - By 2030, increase substantially the share of renewable energy in the global energy mix	7.2.1 - Renewable energy share in the total final energy consumption
7.3 - By 2030, double the global rate of improvement in energy efficiency	7.3.1 - Energy intensity measured in terms of primary energy and GDP
7.A - By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology	7.A.1 - Mobilized amount of United States dollars per year starting in 2020 accountable towards the \$100 billion commitment
7.B - By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States, and land-locked developing countries, in accordance with their respective programmes of support	7.B.1 - Investments in energy efficiency as a percentage of GDP and the amount of foreign direct investment in financial transfer for infrastructure and technology to sustainable development services



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SDG7 – Comments on Indicators

Indicator	Comments
7.1.1 - Proportion of population with access to electricity	Mere access or power quality?
7.1.2 - Proportion of population with primary reliance on clean fuels and technology	From firewood to gas. Is gas still clean? Data on firewood?
7.2.1 - Renewable energy share in the total final energy consumption	What if RE share is already very high (e.g. in Georgia)? Imported RE or domestic FF?
7.3.1 - Energy intensity measured in terms of primary energy and GDP	What about upstream energy efficiency? Efficiency of power plants?
7.A.1 - Mobilized amount of United States dollars per year starting in 2020 accountable towards the \$100 billion commitment	Important connections with Goal 17: finance, technology, capacity-building, trade, systemic issues and data availability and quality
7.B.1 - Investments in energy efficiency as a percentage of GDP and the amount of foreign direct investment in financial transfer for infrastructure and technology to sustainable development services	“Efficiency of investment”, energy savings per \$ of investment



Sustainable management of FF is Key



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Global share of FF in energy mix	81%
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Regional Shares of FF in Energy Mix

North America	82%
Russian Federation	90%
Eastern Europe, Caucasus and Central Asia (EECCA)	89%
OECD	72%
Western Balkans	78%

UNECE

UNECE share of FF in energy mix	80%
Overall UNECE regional share of global energy	39%
Overall UNECE regional share of global fossil fuel use	38%
Regional share of global FF production	38%



Thank you!

