Romania on track for 2030?

“Perspectives for renewables in Romania and the CESEC region”
EUFrokes Workshop
01st April 2019
Annual CO₂ emissions by world region

Annual carbon dioxide (CO₂) emissions measured in billion tonnes (Gt) per year

Source: Carbon Dioxide Information Analysis Center (CDIAC)

Note: Emissions data have been converted from units of carbon to carbon dioxide (CO₂) using a conversion factor of 3.67. Regions denoted "other" are given as regional totals minus emissions from the EU-28, USA, China and India. Here, we have rephrased the general term "bunker (fuels)" as "international aviation and maritime transport" for clarity.
Global greenhouse gas emissions scenarios

Potential future emissions pathways of global greenhouse gas emissions (measured in gigatonnes of carbon dioxide equivalents) in the case of no climate policies, current implemented policies, national pledges within the Paris Agreement, and 2°C and 1.5°C consistent pathways. High, median and low pathways represent ranges for a given scenario. Temperature figures represent the estimated average global temperature increase from pre-industrial, by 2100.

Based on data from the Climate Action Tracker (CAT).
The data visualization is available at OurWorldinData.org. There you find research and more visualizations on this topic. Licensed under CC-BY-SA by the authors Hannah Ritchie and Max Roser.
well below 2 degrees

This is the cut off between “dangerous global warming” and “extremely dangerous global warming”
RES share in gross consumption 2020

Congratulations Romania for achieving the 2020 target.
Law 220/2008
GC Coverage 2014 - 2031

Past GC coverage

Planned GC coverage

Decided by ANRE

ANRE?
D 2009/28/EC
Law 220/2008
D 2018/2001 EU
# Max. potential RES in RO

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<tr>
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<tbody>
<tr>
<td>Wind onshore</td>
<td>3156</td>
<td>+10606</td>
<td>+12084</td>
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<tr>
<td>Wind offshore</td>
<td>0</td>
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<td>+3500</td>
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<td>Solar ground-mounted</td>
<td>1375</td>
<td>+15971</td>
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<td>Solar rooftop</td>
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<td>+31593</td>
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<td>Hydro - lakes</td>
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<tr>
<td>Geothermal</td>
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<tr>
<td><strong>Total</strong></td>
<td>11292</td>
<td>+66467</td>
<td>+75958</td>
</tr>
</tbody>
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Summary Findings of Lazard’s 2017 Levelized Cost of Energy Analysis

Selected Historical Mean LCOE Values

Source: Lazard estimates.

Note: Reflects average of unsubsidized high and low LCOE range for given version of LCOE study.

(1) Primarily relates to North American alternative energy landscape, but reflects broader/global cost declines.

(2) Reflects total decrease in mean LCOE since the later of Lazard’s LCOE—Version 3.0 or the first year Lazard has tracked the relevant technology.

(3) Reflects mean of fixed-tilt (high end) and single-axis tracking (low end) crystalline PV installations.
RES share in gross consumption 2030

- Romania
- EU
The RO proposed 2030 target is rather disappointing.
New

✓ High RES quota
✓ Close down coal facilities
✓ Long term PPA’s
✓ CfD for low carbon technologies – especially RES
✓ Prosumers and distributed generation
✓ Batteries and demand side
✓ Liberalization of the energy market

Old

• Low RES quota
• State aid for coal
• New coal power plants
• Standard electricity contracts
• New nuclear reactors
• Prosumers cap. 750 MW
• No batteries
• Re-regulation of the energy market
We all have to work together to find the balanced solution!!
> Thank You!!

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Martin MOISE