CHALLENGES OF LATIN AMERICAN AND CARIBBEAN COUNTRIES

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Renewable ENERGY

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The information in this infographic reflects data from 2013 until September 2018. The percentages of the evolution of renewable sources in the electric matrix refer to the total installed capacity for electricity generation in each country. As for information related to the challenges, in the case of Brazil, Cuba, Ecuador, El Salvador, Mexico, and Paraguay it refers to targets set in the National Determined Contributions (NDCs) for the reduction of greenhouse gas emissions under the Paris Agreement. For the other countries, they are included in the guidelines of government documents for energy expansion planning.

It is important to point out that **renewable energies** include both conventional and unconventional sources. Conventional sources are those that have already reached a high level of technological maturity, such as hydroelectric power plants. The unconventional sources are those that have had a more recent technological development, especially biomass, and wind and solar photovoltaic power, which have been presenting lower costs.

The audit report contains the findings, opportunities and best practices related to public policies for renewable energy expansion.

More information is available at:
www.tcu.gov.br/energiasrenovaveis

Coordinated Audit on Renewable ENERGY

Total installed capacity (Sep/2018) **161,02** GW

Evolution of the percentage of renewables
- 2013: 78,64%
- Sep/2018: 82,08%

Evolution of the percentage of unconventional renewables
- 2013: 10,78%
- Sep/2018: 18,54%

Challenge Year 2030 — **23%** of non-hydro renewables in total electricity generation by 2030

Year 2017 — This share was **16,07%**

Total installed capacity (Sep/2018) **6,48** GW

Evolution of the percentage of renewables
- 2013: 9,01%
- Sep/2018: 10,53%

Evolution of the percentage of unconventional renewables
- 2013: 7,97%
- Sep/2018: 9,48%

Challenge Increase of **2,14 GW** of renewable sources

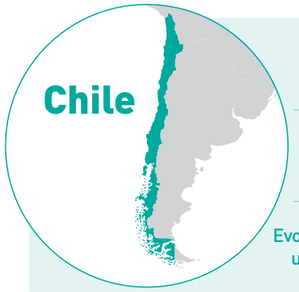
In Sep/2018, renewables reached only **0,68 GW**

Total installed capacity (Sep/2018) **2,64** GW

Evolution of the percentage of renewables
- 2013: 43,8%
- Sep/2018: 61,69%

Evolution of the percentage of unconventional renewables
- 2013: 11,87%
- Sep/2018: 34,92%

Challenge Year 2038 — **80%** of renewable sources in electricity generation by 2038



Total installed capacity (Sep/2018) **23,66** GW

Evolution of the percentage of renewables
- 2013: 39,02%
- Sep/2018: 46,22%

Evolution of the percentage of unconventional renewables
- 2013: 3,94%
- Sep/2018: 18,17%

Challenge Year 2025 — **45%** of unconventional renewables of the total installed capacity for electricity generation by 2025

Sep. 2018 — This share was **18,17%**

Total installed capacity (Sep/2018) **8,16** GW

Evolution of the percentage of renewables
- 2013: 43,46%
- Sep/2018: 58,51%

Evolution of the percentage of unconventional renewables
- 2013: 2,27%
- Sep/2018: 2,45%

Challenge Increase utilization of electricity generation from hydroelectric power plants and unconventional renewables, which will contribute to **94%** of GHG emission reductions in the energy sector by **2025**

Total installed capacity (Jun/2018) **76,83** GW

Evolution of the percentage of renewables
- 2013: 21,55%
- Jun/2018: 26,56%

Evolution of the percentage of unconventional renewables
- 2013: 3,08%
- Jun/2018: 10,16%

Challenge Year 2030 — **37,7%** of renewable sources in electricity generation by 2030

Total installed capacity (Sep/2018) **17,31** GW

Evolution of the percentage of renewables
- 2013: 68,38%
- Sep/2018: 69,36%

Evolution of the percentage of unconventional renewables
- 2013: 0,55%
- Sep/2018: 0,97%

Challenge Insertion of **1,5** GW of unconventional renewables by **2022**

In Sep/2018, unconventional renewables reached only **0,17** GW

Total installed capacity (Jun/2018) **1,97** GW

Evolution of the percentage of renewables
- 2013: 52,27%
- Jun/2018: 61,55%

Evolution of the percentage of unconventional renewables
- 2013: 21,49%
- Jun/2018: 32,34%

Challenge Year 2025 — **30%** growth in electricity generation from renewables by **2025** compared to **2015**

Total installed capacity (Sep/2018) **8,88** GW

Evolution of the percentage of renewables
- 2013: 99,83%
- Sep/2018: 99,99%

Evolution of the percentage of unconventional renewables
- 2013: 0,81%
- Sep/2018: 0,81%

Challenge Expanding access to electricity for the population and expanding unconventional renewable sources

Total installed capacity (Sep/2018) **3,55** GW

Evolution of the percentage of renewables
- 2013: 77,77%
- Sep/2018: 83,87%

Evolution of the percentage of unconventional renewables
- 2013: 14,10%
- Sep/2018: 17,91%

Challenge Year 2030 — Achieve and maintain **100%** of renewable electricity generation as of 2030

Total installed capacity (Sep/2018) **4,07** GW

Evolution of the percentage of renewables
- 2013: 55,46%
- Sep/2018: 69,45%

Evolution of the percentage of unconventional renewables
- 2013: 21,93%
- Sep/2018: 32,65%

Challenge Year 2027 — **80%** of renewable sources in installed capacity by 2027

Total installed capacity (2018) **31,96** GW

Evolution of the percentage of renewables
- 2013: 49,30%
- Sep/2018: 47,53%

Evolution of the percentage of unconventional renewables
- 2013: 0,18%
- Sep/2018: 0,17%

Challenge Installation of wind and solar photovoltaic power to serve isolated communities