

EL LEGAL AND REGULATORY INDICES SNAPSHOT SSA POWER MARKETS: Renewable Energy Mix Dynamics and Level of Potential for Attracting Investments in Clean Energy Technologies

| Country                  | Wind <sup>1</sup> | Solar <sup>2</sup> | Hydro <sup>3</sup> | Total RE composition in the individual country fuel mix dynamics | Countries that have potential for hydrogen production (✓/×) <sup>4</sup> | Level of potential for attracting investments in clean energy technologies <sup>5</sup>  |
|--------------------------|-------------------|--------------------|--------------------|--|--|--|
| Lesotho                  |                   | 0.19%              | 99.81%             | 100.00%  | ✓  | <b>HIGH (75-100%)</b><br>(Countries in this category are most likely to secure funding in clean technologies in line with the energy transition)   |
| Ethiopia                 | 7.34%             | 0.17%              | 92.45%             | 99.96%   | ✓  |  |
| DRC                      |                   | 0.01%              | 99.82%             | 99.83%   | ✓  |  |
| Central African Republic |                   | 0.24%              | 99.17%             | 99.41%   | ✓  |  |
| Namibia                  | 0.06%             | 2.50%              | 95.38%             | 97.94%   | ✓  |  |
| Zambia                   |                   |                    | 97.14%             | 97.14%   | ✓  |  |
| Malawi                   |                   | 1.16%              | 90.85%             | 92.01%   | ✓  |  |
| Uganda                   |                   | 1.20%              | 90.18%             | 91.38%   | ✓  |  |
| Mozambique               |                   | 0.01%              | 87.02%             | 87.03%   | ✓  |  |
| Burundi                  |                   | 2.87%              | 78.16%             | 81.03%   | ✓  |  |
| Sudan                    |                   | 0.10%              | 65.65%             | 65.75%   | ✓  |  |
| Sierra Leone             |                   | 0.52%              | 64.58%             | 65.10%   | ✓  | <b>MEDIUM (30-75%)</b><br>(Countries in this category are less likely to secure funding in clean technologies in line with the energy transition due to certain limiting factors peculiar to each country) |
| Rwanda                   |                   | 4.06%              | 54.55%             | 58.61%   | ✓  |  |
| Guinea                   |                   | 1.31%              | 55.10%             | 56.41%   | ✓  |  |
| Cameroon                 |                   | 0.13%              | 56.11%             | 56.24%   | ✓  |  |
| Angola                   |                   | 0.19%              | 54.35%             | 54.54%   | ✓  |  |
| Zimbabwe                 |                   | 0.09%              | 53.35%             | 53.44%   | ✓  |  |
| Ghana                    |                   | 0.03%              | 52.16%             | 52.19%   | ✓  |  |
| Mali                     |                   | 1.24%              | 49.60%             | 50.84%   | ✓  |  |
| Swaziland                |                   | 0.21%              | 47.82%             | 48.03%   | ✓  |  |
| Madagascar               | 0.02%             | 0.79%              | 45.48%             | 46.29%   | ✓  |  |
| Gabon                    |                   | 0.10%              | 44.64%             | 44.74%   | ✓  | <b>LOW (0-30%)</b><br>(Countries in this category will most likely not attract funding in clean technologies due to their heavy dependence on fossil fuels)  |
| Republic of Congo        |                   | 0.04%              | 40.88%             | 40.92%   | ✓  |  |
| Kenya                    | 0.62%             | 0.38%              | 38.67%             | 39.67%   | ✓  |  |
| Equatorial Guinea        |                   |                    | 34.51%             | 34.51%   | ✓  |  |
| Tanzania                 | 0.23%             | 32.55%             |                    | 32.78%   | ✓  |  |
| Mauritania               | 9.18%             | 2.29%              | 16.72%             | 28.19%   | ✓  |  |
| Cape Verde               | 19.70%            | 1.50%              |                    | 21.20%   | ×  |  |
| Nigeria                  | 0.01%             | 0.08%              | 18.40%             | 18.49%   | ✓  |  |
| Ivory Coast              |                   | 0.05%              | 16.40%             | 16.45%   | ✓  |  |
| Togo                     |                   | 0.54%              | 14.89%             | 15.43%   | ✓  |  |
| Burkina Faso             |                   | 1.36%              | 9.72%              | 11.08%   | ×  |  |
| Sao Tome and Principe    |                   |                    | 10.26%             | 10.26%   | ✓  |  |
| Senegal                  |                   | 0.10%              | 8.64%              | 8.74%  | ✓  |  |
| Mauritius                | 0.13%             | 1.12%              | 5.20%              | 6.45%  | ✓  |  |
| Comoros                  |                   |                    | 3.85%              | 3.85%  | ✓  |  |
| Guinea-Bissau            |                   | 2.86%              |                    | 2.86%  | ✓  |  |
| South Africa             | 1.08%             | 1%                 | 0.35%              | 2.35%  | ✓  |  |
| Seychelles               | 1.61%             | 0.46%              |                    | 2.07%  | ✓  |  |
| Benin                    |                   | 1.61%              | 0.32%              | 1.93%  | ✓  |  |
| Somalia                  | 1.49%             | 0.06%              |                    | 1.55%  | ✓  |  |
| Eritrea                  | 0.60%             | 0.60%              |                    | 1.20%  | ✓  |  |
| Gambia                   | 0.04%             | 1.06%              |                    | 1.10%  | ✓  |  |
| Niger                    |                   | 0.80%              |                    | 0.80%  | ✓  |  |
| Djibouti                 |                   | 0.30%              |                    | 0.30%  | ✓  |  |
| Chad                     |                   | 0.14%              |                    | 0.14%  | ✓  |  |
| Botswana                 |                   | 0.11%              |                    | 0.11%  | ✓  |  |
| Liberia                  |                   |                    |                    | 0.00%  | ✓  |  |
| South Sudan              |                   |                    |                    | 0.00%  | ✓  |  |

DISCLAIMER

The devised method of data representation and the mode of populating the figures and information in this snapshot document is not premised on and does not in any way imply the opinion of International Organizations, Ministries, Governmental Bodies and Regulatory Entities of SSA countries, relating to the legal status of the country, the territory, boundary, or delimitation of the country’s frontiers.



### Endnotes

- 1 The data has been intensively computed based on the level of deployment of each renewable energy source per SSA country, obtained from Global Petrol Prices Data on World Energy Mix for electricity generation (2017) available at [https://www.globalpetrolprices.com/energy\\_mix.php](https://www.globalpetrolprices.com/energy_mix.php) and has been verified in accordance with international standards.
- 2 The data has been intensively computed based on the level of deployment of each renewable energy source per SSA country, obtained from Global Petrol Prices Data on World Energy Mix for electricity generation (2017) available at [https://www.globalpetrolprices.com/energy\\_mix.php](https://www.globalpetrolprices.com/energy_mix.php) and has been verified in accordance with international standards.
- 3 The data has been intensively computed based on the level of deployment of each renewable energy source per SSA country, obtained from Global Petrol Prices Data on World Energy Mix for electricity generation (2017) available at [https://www.globalpetrolprices.com/energy\\_mix.php](https://www.globalpetrolprices.com/energy_mix.php) and has been verified in accordance with international standards.
- 4 The selection of countries with resources to produce hydrogen was undertaken based on the availability of hydrogen resources present in each country. Also, Hydrogen is now regarded as a constituent part of the energy transition pathway for countries in Sub-Saharan Africa; as a result, identifying the countries that have significant potential for hydrogen production will be useful to readers seeking to know the level of hydrogen production potential that exists across SSA. The information has been compiled from and the selection of countries is depicted based on data obtained from UNEP's official website (available at <https://wedocs.unep.org/handle/20.500.11822/7419>), and is thus represented in a tick (□/□) format. It should be noted that this selection of countries with resources to produce hydrogen can further serve as a criterion for clean energy investments in these countries.
- 5 The Renewable Energy (RE) mix snapshot is culled from the Legal and Regulatory Indices snapshot relating to the fuel mix in the entire SSA region and based on the level of deployment of renewable energy sources in electricity generation per country. The data has been intensively computed based on the level of usage of each renewable energy source per SSA country, obtained from Global Petrol Prices Data on World Energy Mix for electricity generation (2017) available at [https://www.globalpetrolprices.com/energy\\_mix.php](https://www.globalpetrolprices.com/energy_mix.php) and has been verified in accordance with international standards.