

## Regulatory Indicators for Sustainable Energy (RISE) 2016 Country Data - Eritrea

### Energy Access

| Indicator  | Score |
|--|-------|
| Existence and monitoring of officially approved electrification plan | 60    |
| Scope of officially approved electrification plan                    | 50    |
| Framework for grid electrification                                   | 33.33 |
| Framework for minigrids  | 5     |
| Framework for stand-alone systems                                    | 17.78 |
| Consumer affordability of electricity                                | 48.4  |
| Utility Transparency and Monitoring                                  | 16.67 |
| Utility Creditworthiness   | 0     |
| <b>Total</b>   | 28.9  |

### Energy Efficiency

| Indicator   | Score |
|---|-------|
| National energy efficiency planning                       | 66.67 |
| Energy efficiency entities                                | 100   |
| Information provided to consumers about electricity usage | 54.17 |
| EE incentives from electricity rate structures            | 33.33 |
| Incentives & mandates: large consumers                    | 0     |
| Incentives & mandates: public sector                      | 0     |
| Incentives & mandates: utilities                          | 0     |
| Financing mechanisms for energy efficiency                | 0     |
| Minimum energy efficiency performance standards           | 0     |
| Energy labeling systems                                   | 0     |
| Building energy codes                                     | 0     |
| Carbon Pricing  | 0     |
| <b>Total</b>  | 21.18 |

## Regulatory Indicators for Sustainable Energy (RISE)

### Renewable Energy

| Indicator  | Score        |
|--|--------------|
| Legal framework for renewable energy                   | 0            |
| Planning for renewable energy expansion                | 58           |
| Incentives and regulatory support for renewable energy | 0            |
| Attributes of financial and regulatory incentives      | 0            |
| Network connection and pricing                         | 0            |
| Counterparty risk                                      | 6            |
| Carbon pricing and monitoring                          | 0            |
| <b>Total</b>   | <b>9.14</b>  |
| <b>Overall Score</b>                                   | <b>19.74</b> |

### Energy Access

| Existence and monitoring of officially approved electrification plan                            | Score | 60   |
|---|-------|--|
| Is there an officially approved national electrification plan?                                  |       | Yes  |
| If not, is there a draft electrification plan that has been prepared but not yet been approved? |       | No   |
| Name of the electrification plan  |       | National Indicative Programme ; Rural Electrification Plan |
| Are the electrification plan and the updates publicly available?                                |       | No   |
| When was the last update of the electrification plan?   |       | 2008   |
| Is there an institution responsible for tracking progress of the plan?                          |       | Yes  |

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|   |                                    |
|---|------------------------------------|
| Name of the tracking institution                          | Eritrea Electric Corporation (EEC) |
| Is there a timeframe defined in the electrification plan? | Yes                                |

| Scope of officially approved electrification plan  | Score | 50  |
|--|-------|-----|
| Does the plan target a service level (e.g., power availability, number of guaranteed hours of power supply, etc.)? |       | No  |
| Details on service level target  |       | 0   |
| Does the electrification plan include both grid and off-grid?  |       | Yes |
| Does the plan include community facilities?  |       | Yes |
| Does the plan include productive use?  |       | Yes |
| Are there geospatial maps conveying the timeframe of planned grid extension?                                       |       | No  |
| Are these geospatial maps made publicly available?   |       | No  |

| Framework for grid electrification  | Score | 33.33  |
|---|-------|--|
| Does the government have a dedicated funding line or budget for electrification (e.g., funded national program, budget item, rural electrification fund to finance grid extension)? |       | Yes  |
| Are there capital subsidies paid to the utilities to provide distribution systems to rural areas/villages?  |       | Yes  |
| Details on funding support for grid electrification   |       | Budgets/grants for electrification activities described by National Indicative Programme and the Rural Electrification Program |

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|   |    |
|---|----|
| Are there consumer financing mechanisms (i.e., utility loans, on bill financing, micro-loans, etc.) and/or direct subsidies available to support the payment of connection fees by consumers? | No |
| Details on mechanisms to support the payment of connection fees   | 0  |
| Does the government specify standards of performance on reliability along with new connections (e.g., number of guaranteed hours per day, etc.)?  | No |

| <b>Framework for minigrids</b>  | <b>Score</b> | <b>5</b> |
|---|--------------|----------|
| Are minigrids legally allowed to operate in the country?  | No           |          |
| Name and date of the regulation for minigrids   | 0            |          |
| Can minigrids be owned and operated by private operators?   | Yes          |          |
| Do regulations clarify what will occur when the interconnected grid reaches a mini-grid?  | No           |          |
| To convert from a power producer to a power distributor that buys electricity from the interconnected grid and resells to its local customers | No           |          |
| To sell electricity to the interconnected grid operator and no longer sell electricity to retail customers                                    | No           |          |
| To sell its distribution grid to the interconnected grid operator and receive compensation for the sale of the asset                          | No           |          |
| Other   | No           |          |
| Do the regulations detail procedures for consumers to get connected to minigrids?   | No           |          |
| Do the regulations differ by size of minigrids?   | No           |          |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |    |
|--|----|
| Are mini-grid operators legally allowed to charge a different tariff from the national tariff? | No |
| Is there a retail electricity tariff schedule for minigrids?                                   | No |
| Examples of minigrid tariffs   | 0  |
| Name of the regulation on minigrid tariffs   | 0  |
| Are there publicly funded mechanisms to secure viability gap funding for operators?            | No |
| Do subsidies exist for minigrids?  | No |
| Details on subsidies for minigrids   | 0  |
| Name of the document referring to minigrid subsidies   | 0  |
| Do subsidies exist for power generators?   | No |
| Do subsidies exist for energy storage systems?   | No |
| Do subsidies exist for distribution systems?   | No |
| Do subsidies exist for monitoring systems?   | No |
| Do subsidies exist for other equipment related to minigrids?                                   | No |
| Do duty exemptions exist for minigrid systems?   | No |
| Details on duty exemptions for minigrids   | 0  |
| Name of the document referring to mini-grid duty exemptions                                    | 0  |
| Do duty exemptions exist for power generators?   | No |
| Do duty exemptions exist for energy storage systems?   | No |
| Do duty exemptions exist for distribution systems?   | No |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Do duty exemptions exist for monitoring systems?                          | No |
| Do duty exemptions exist for other equipment related to minigrids?        | No |
| Do subsidies exist for stand-alone systems?                               | No |
| Do subsidies exist for solar modules?                                     | No |
| Do subsidies exist for batteries?   | No |
| Do subsidies exist for charge controllers?                                | No |
| Do subsidies exist for power conditioning equipment?                      | No |
| Do subsidies exist for safety equipment?                                  | No |
| Do subsidies exist for other equipment related to stand-alone systems?    | No |
| Details on subsidies for stand-alone systems                              | 0  |
| Name of the document referring to subsidies for stand-alone systems       | 0  |
| Do duty exemptions exist for stand-alone systems?                         | No |
| Details on duty exemptions for stand-alone systems                        | 0  |
| Name of the document referring to duty exemptions for stand-alone systems | 0  |
| Do duty exemptions exist for solar modules?                               | No |
| Do duty exemptions exist for batteries?                                   | No |
| Do duty exemptions exist for charge controllers?                          | No |
| Do duty exemptions exist for power conditioning equipment?                | No |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |    |
|--|----|
| Do duty exemptions exist for safety equipment?   | No |
| Do duty exemptions exist for other equipment related to stand-alone systems?   | No |
| Are there legal restrictions that limit the prices standalone home system retailers or service providers can charge?           | No |
| Are there specific financing facilities available to support operators/consumers to develop/purchase stand-alone home systems? | No |
| Are there specific market financing facilities available to support operators to develop stand-alone systems?                  | No |
| Are there specific government financing facilities available to support operators to develop stand-alone systems?              | No |
| Are there specific market financing facilities available to support consumers to purchase stand-alone standalone systems?      | No |
| Are there specific government financing facilities available to support consumers to purchase stand-alone standalone systems?  | No |
| Are there technical standards detailing the requirements for minigrids to connect the grid?                                    | No |
| Are technical standards made publicly available?   | No |
| Name of the document detailing technical standards   | 0  |
| Are there safety standards for minigrids?  | No |
| Are these safety standards made publicly available?  | No |
| Name of the document detailing safety standards  | 0  |
| Does the government implement certification programs for minigrid installers?  | No |
| Does the government provide or endorse certification programs for one or more components or equipment required for             | No |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| minigrids?  |     |
| Has the government adopted international quality standards for stand-alone systems?                                     | Yes |
| Name of the document detailing quality standards  | 0   |
| Has the government adopted international testing methods?   | No  |
| Does the regulation accept testing done elsewhere/in another country (vs in-country testing required)?                  | No  |
| Is there a governmental certified program for solar equipment installers?   | No  |
| Are there environmental regulations on the disposal of solar devices and standalone home system products or components? | No  |
| Name of document detailing environmental regulations  | 0   |

| <b>Framework for stand-alone systems</b>  | <b>Score</b> | <b>17.78</b> |
|---|--------------|--------------|
| Are there publicly funded mechanisms to secure viability gap funding for operators? | No           |              |
| Do subsidies exist for minigrids?   | No           |              |
| Details on subsidies for minigrids  | 0            |              |
| Name of the document referring to minigrid subsidies                                | 0            |              |
| Do subsidies exist for power generators?  | No           |              |
| Do subsidies exist for energy storage systems?                                      | No           |              |
| Do subsidies exist for distribution systems?  | No           |              |
| Do subsidies exist for monitoring systems?  | No           |              |



## Regulatory Indicators for Sustainable Energy (RISE)

|  |    |
|--|----|
| Do subsidies exist for other equipment related to minigrids?           | No |
| Do duty exemptions exist for minigrid systems?                         | No |
| Details on duty exemptions for minigrids                               | 0  |
| Name of the document referring to mini-grid duty exemptions            | 0  |
| Do duty exemptions exist for power generators?                         | No |
| Do duty exemptions exist for energy storage systems?                   | No |
| Do duty exemptions exist for distribution systems?                     | No |
| Do duty exemptions exist for monitoring systems?                       | No |
| Do duty exemptions exist for other equipment related to minigrids?     | No |
| Do subsidies exist for stand-alone systems?                            | No |
| Do subsidies exist for solar modules?                                  | No |
| Do subsidies exist for batteries?                                      | No |
| Do subsidies exist for charge controllers?                             | No |
| Do subsidies exist for power conditioning equipment?                   | No |
| Do subsidies exist for safety equipment?                               | No |
| Do subsidies exist for other equipment related to stand-alone systems? | No |
| Details on subsidies for stand-alone systems                           | 0  |
| Name of the document referring to subsidies for stand-alone systems    | 0  |
| Do duty exemptions exist for stand-alone systems?                      | No |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |    |
|--|----|
| Details on duty exemptions for stand-alone systems   | 0  |
| Name of the document referring to duty exemptions for stand-alone systems  | 0  |
| Do duty exemptions exist for solar modules?  | No |
| Do duty exemptions exist for batteries?  | No |
| Do duty exemptions exist for charge controllers?   | No |
| Do duty exemptions exist for power conditioning equipment?   | No |
| Do duty exemptions exist for safety equipment?   | No |
| Do duty exemptions exist for other equipment related to stand-alone systems?   | No |
| Are there legal restrictions that limit the prices standalone home system retailers or service providers can charge?           | No |
| Are there specific financing facilities available to support operators/consumers to develop/purchase stand-alone home systems? | No |
| Are there specific market financing facilities available to support operators to develop stand-alone systems?                  | No |
| Are there specific government financing facilities available to support operators to develop stand-alone systems?              | No |
| Are there specific market financing facilities available to support consumers to purchase stand-alone standalone systems?      | No |
| Are there specific government financing facilities available to support consumers to purchase stand-alone standalone systems?  | No |
| Are there technical standards detailing the requirements for minigrids to connect the grid?                                    | No |
| Are technical standards made publicly available?   | No |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Name of the document detailing technical standards  | 0   |
| Are there safety standards for minigrids?   | No  |
| Are these safety standards made publicly available?   | No  |
| Name of the document detailing safety standards   | 0   |
| Does the government implement certification programs for minigrid installers?   | No  |
| Does the government provide or endorse certification programs for one or more components or equipment required for minigrids? | No  |
| Has the government adopted international quality standards for stand-alone systems?   | Yes |
| Name of the document detailing quality standards  | 0   |
| Has the government adopted international testing methods?   | No  |
| Does the regulation accept testing done elsewhere/in another country (vs in-country testing required)?                        | No  |
| Is there a governmental certified program for solar equipment installers?   | No  |
| Are there environmental regulations on the disposal of solar devices and standalone home system products or components?       | No  |
| Name of document detailing environmental regulations  | 0   |
| Are there national programs which aim to develop stand-alone systems or support the development of stand-alone systems?       | No  |
| Details on the national program promoting stand-alone systems   | 0   |

**Consumer affordability of electricity**

**Score**

**48.4**

## Regulatory Indicators for Sustainable Energy (RISE)

|   |                   |
|---|-------------------|
| What is the annual cost of subsistence consumption (30kWh/month) as a percentage of GNI per household of bottom 20 percent of population? | 5.15951004236596% |
| Tariff schedule / tariff structure taken into account   | 0                 |
| Is there a mechanism to support low-volume consumers such as cross-subsidization, social or lifeline tariff?                              | No                |

| <b>Utility Transparency and Monitoring</b>  | <b>Score</b> | <b>16.67</b> |
|---|--------------|--------------|
| Are the financial statements of the largest generation company publicly available?  | No           |              |
| Are the financial statements of the largest transmission company publicly available?  | No           |              |
| Are the financial statements of the largest distribution company publicly available?  | No           |              |
| Are the financial statements of the largest retail electricity sales company publicly available?                                  | No           |              |
| Are the financial statements of the largest generation company audited?   | No           |              |
| Are the financial statements of the largest transmission company audited?   | No           |              |
| Are the financial statements of the largest distribution company audited?   | No           |              |
| Are the financial statements of the largest retail electricity sales company audited?   | No           |              |
| Is the transmission loss rate published in a primary official document (by the utility, regulator or ministry and/or government)? | Yes          |              |
| Is the distribution loss rate published in a primary official document (by the utility, regulator or ministry and/or government)? | Yes          |              |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| government)?   |     |
| Is the bill collection rate published in a primary official document (by the utility, regulator or ministry and/or government)?                                  | No  |
| Is the amount of electricity available for sale to end-users published in a primary official document (by the utility, regulator or ministry and/or government)? | No  |
| Is the utility operating an incidence/outage recording system (or SCADA/EMS with such functionality)?  | No  |
| Is the utility measuring the SAIDI and SAIFI or any other measurements for service reliability?  | No  |
| Are the measurements reported to the regulatory body?  | Yes |
| Are the measurements available to public?  | No  |

| <b>Utility Creditworthiness</b>                           | <b>Score</b> | <b>0</b> |
|---|--------------|----------|
| Current ratio (working capital ratio) of selected utility |              | 0        |
| EBITDA margin of selected utility                         |              | 0        |
| Debt service coverage ratio of selected utility           |              | 0        |
| Days payable outstanding of selected utility              |              | 0        |

## Energy Efficiency

| <b>National energy efficiency planning</b>                               | <b>Score</b> | <b>66.67</b>                  |
|--|--------------|-------------------------------|
| Is there legislation or a national action plan that aims to increase EE? |              | Yes                           |
| Name of EE legislation or action plan                                    |              | National Indicative Programme |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |                                      |
|---|--------------------------------------|
| Is there an energy efficiency goal or target at the national level? | Yes                                  |
| Natonal target details  | 7-8 MW savings on the national level |
| Is there a target for the residential sector?                       | No                                   |
| Target details  | N/A                                  |
| Does the target have a milestone or deadline?                       | No                                   |
| Is there a commercial servcies sector target?                       | No                                   |
| Target details  | N/A                                  |
| Does the target have a milestone or deadline?                       | No                                   |
| Is there an industrial sector target?                               | No                                   |
| Target details  | N/A                                  |
| Does the target have a milestone or deadline?                       | No                                   |
| Is there a power sector target?                                     | No                                   |
| Target details  | N/A                                  |
| Does the target have a milestone or deadline?                       | No                                   |

| Energy efficiency entities  | Score | 100 |
|---|-------|-----|
| Are there governmental and/or independent bodies dedicated to setting EE strategy?  | Yes   |     |
| Name of entity  | MoEM  |     |
| Are there governmental and/or independent bodies dedicated to setting EE standards? | Yes   |     |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| Name of entity   | EEC |
| Are there governmental and/or independent bodies dedicated to regulating EE activities of energy suppliers?  | Yes |
| Name of entity   | EEC |
| Are there governmental and/or independent bodies dedicated to regulating EE activities of energy consumers?  | Yes |
| Name of entity   | EEC |
| Are there governmental and/or independent bodies dedicated to certifying compliance with equipment EE standards?                                   | Yes |
| Name of entity   | EEC |
| Are there governmental and/or independent bodies dedicated to certifying compliance with building EE standards?                                    | Yes |
| Name of entity   | EEC |
| Are there governmental and/or independent bodies dedicated to selecting and/or approving third party auditors tasked with certifying EE standards? | Yes |
| Name of entity   | EEC |

| <b>Information provided to consumers about electricity usage</b>                                     | <b>Score</b> | <b>54.17</b> |
|--|--------------|--------------|
| Residential customers  |              |              |
| Is it mandatory for utilities to provide reports of their energy usage, in a bill or by other means? | Yes          |              |
| Commercial customers   |              |              |
| Is it mandatory for utilities to provide reports of their energy usage, in a bill or by other means? | Yes          |              |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Industrial customers  |     |
| Is it mandatory for utilities to provide reports of their energy usage, in a bill or by other means?            | Yes |
| Residential customers   |     |
| At what intervals do customers receive these reports (times per year)?  | 12  |
| Do the reports include the price levels customers pay for energy usage?   | Yes |
| Commercial customers  |     |
| At what intervals do customers receive these reports (times per year)?  | 12  |
| Do the reports include the price levels customers pay for energy usage?   | Yes |
| Industrial customers  |     |
| At what intervals do customers receive these reports (times per year)?  | 12  |
| Do the reports include the price levels customers pay for energy usage?   | Yes |
| Does the regulator track utilities' compliance with laws for providing energy usage information to customers?   | No  |
| Residential customers   |     |
| Do customers receive a bill or report which compares them to other users in the same region and/or usage class? | No  |
| Method of comparison  | N/A |
| Commercial customers  |     |



## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Do customers receive a bill or report which compares them to other users in the same region and/or usage class?                                 | No  |
| Method of comparison  | N/A |
| Industrial customers  |     |
| Do customers receive a bill or report which compares them to other users in the same region and/or usage class?                                 | No  |
| Method of comparison  | N/A |
| Residential customers   |     |
| Do customers receive a bill or report that shows their energy usage compared to previous bills or reports over time?                            | Yes |
| Commercial customers  |     |
| Do customers receive a bill or report that shows their energy usage compared to previous bills or reports over time?                            | Yes |
| Industrial customers  |     |
| Do customers receive a bill or report that shows their energy usage compared to previous bills or reports over time?                            | Yes |
| All customers   |     |
| Can customers access real time feedback on energy usage (for either prepaid or post-paid systems)?  | No  |
| Do customers have the ability to manage energy usage levels remotely (through apps or other technology mediums that can track real time usage)? | No  |

|   |              |              |
|---|--------------|--------------|
| <b>EE incentives from electricity rate structures</b> | <b>Score</b> | <b>33.33</b> |
| Residential customers                                 |              |              |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Are customers charged a flat fee (per connection)?  | No  |
| Are customers charged constant block rates?         | Yes |
| Are customers charged declining block rates?        | No  |
| Are customers charged increasing block rates?       | No  |
| Commercial customers                                |     |
| Are customers charged a flat fee (per connection)?  | No  |
| Are customers charged constant block rates?         | Yes |
| Are customers charged declining block rates?        | No  |
| Are customers charged increasing block rates?       | No  |
| Industrial customers                                |     |
| Are customers charged a flat fee (per connection)?  | No  |
| Are customers charged constant block rates?         | Yes |
| Are customers charged declining block rates?        | No  |
| Are customers charged increasing block rates?       | No  |
| Residential customers                               |     |
| Do customers pay energy charges (per kWh)?          | Yes |
| Do customers pay demand charges (per kW)?           | No  |
| Do customers pay reactive power charges (per kVAR)? | No  |
| Commercial customers                                |     |
| Do customers pay energy charges (per kWh)?          | Yes |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Do customers pay demand charges (per kW)?   | No  |
| Do customers pay reactive power charges (per kVAR)?                                     | No  |
| Industrial customers  |     |
| Do customers pay energy charges (per kWh)?  | Yes |
| Do customers pay demand charges (per kW)?   | No  |
| Do customers pay reactive power charges (per kVAR)?                                     | No  |
| Residential customers   |     |
| Are customers charged based on real-time pricing?                                       | No  |
| Are customers charged based on variable peak pricing?                                   | No  |
| Are customers charged based on critical peak pricing?                                   | No  |
| Are tariffs adjusted according to seasons?  | No  |
| Do customers pay according to time-of-day electricity use or receive peak-time rebates? | No  |
| Commercial customers  |     |
| Are customers charged based on real-time pricing?                                       | No  |
| Are customers charged based on variable peak pricing?                                   | No  |
| Are customers charged based on critical peak pricing?                                   | No  |
| Are tariffs adjusted according to seasons?  | No  |
| Do customers pay according to time-of-day electricity use or receive peak-time rebates? | No  |
| Industrial customers  |     |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Are customers charged based on real-time pricing?                                       | No |
| Are customers charged based on variable peak pricing?                                   | No |
| Are customers charged based on critical peak pricing?                                   | No |
| Are tariffs adjusted according to seasons?  | No |
| Do customers pay according to time-of-day electricity use or receive peak-time rebates? | No |

| Incentives & mandates: large consumers   | Score | 0   |
|--|-------|-----|
| What is the threshold for classifying large consumers?   |       | N/A |
| Large consumer EE mandate/incentive regulations  |       |     |
| Is it required for the consumption and/or savings of large-scale energy users to be tracked and documented on a regular basis? |       | No  |
| Are efficiency targets mandated for large consumers?   |       | No  |
| Details  |       | 0   |
| Are energy audits mandated for large consumers?  |       | No  |
| Are energy efficiency progress reports mandated for large consumers?   |       | No  |
| Interval of reports  |       | 0   |
| Are energy-management systems mandated for large consumers?  |       | No  |
| Details  |       | 0   |
| Are there penalties in place for non-compliance with regulatory obligations for large consumers?                               |       | No  |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |          |
|--|----------|
| Is there a measurement and verification program in place?  | No       |
| Is verification done by a third party?   | No       |
| Are there financial incentives for large consumers to invest in energy efficiency?   | No       |
| Details  | 0        |
| Are there tax incentives for large consumers to invest in energy efficiency?   | No       |
| Are there other incentives for large consumers to invest in energy efficiency?   | No       |
| Details  | 0        |
| Is there a program to publicly recognize large-scale users that have achieved significant energy savings measures?                                     | No       |
| Are energy savings and/or financial savings publicized?  | No       |
| Does the program offer assistance (from a government or independent entity) to large-scale users to identify energy savings investments opportunities? | No       |
| Primary Energy Consumption (MJ - latest GTF data from 2012)  | 33358.92 |

| Incentives & mandates: public sector   | Score | 0 |
|--|-------|---|
| Are there binding energy savings obligations for public buildings?   | No    |   |
| Are energy savings from efficiency activities at public buildings tracked (either in-house or by a third party)?   | No    |   |
| Are there binding energy savings obligations for other public facilities (may include water supply, wastewater services, municipal solid waste, street lighting, transportation, and heat supply)? | No    |   |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Are energy savings from efficiency activities at other public facilities tracked?                                   | No |
| Is there a specific policy or mandated guidelines for public procurement of energy-efficient products and services? | No |
| Public procurement guidelines for EE  |    |
| Do public budgeting regulations and practices allow public entities to retain energy savings?                       | No |
| Public budgeting regulations for EE   |    |

| Incentives & mandates: utilities  | Score | 0   |
|---|-------|-----|
| Name of utility energy efficiency regulation program  |       |     |
| Electricity generation  |       |     |
| Are utilities required to carry out energy efficiency activities in this area?                          | No    |     |
| Details   |       | N/A |
| Are energy savings or other target indicators measured to track performance in meeting EE requirements? | No    |     |
| Are the requirements measured/validated by an independent third party?                                  | No    |     |
| Are there penalties in place for non-compliance with EE requirements?                                   | No    |     |
| Are there mandates or incentives for new and/or brownfield co-generation?                               | No    |     |
| Transmission & distribution   |       |     |
| Are utilities required to carry out energy efficiency activities in this area?                          | No    |     |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| Details  | N/A |
| Are energy savings or other target indicators measured to track performance in meeting EE requirements?  | No  |
| Are the requirements measured/validated by an independent third party?   | No  |
| Are there penalties in place for non-compliance with EE requirements?  | No  |
| Demand-side management -   |     |
| Are utilities required to carry out energy efficiency activities in this area?   | No  |
| Details  | N/A |
| Are energy savings or other target indicators measured to track performance in meeting EE requirements?  | No  |
| Are the requirements measured/validated by an independent third party?   | No  |
| Are there penalties in place for non-compliance with EE requirements?  | No  |
| Is there a demand-side management department within the selected utility?  | No  |
| Do utilities provide customers incentives for demand response, such as peak-time rebates?  | No  |
| Is there public budget funding available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?                                  | No  |
| Is there compensation for revenue losses via a tracking account available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities? | No  |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |
| Are there credit lines available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?                   | No |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |
| Are there partial risk guarantees available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?        | No |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |
| Is there program cost recovery available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?           | No |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |
| Is there ESCO financing available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?                  | No |



## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |
| Is there on-bill financing/re-payment available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?    | No |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |
| Are there any other financing mechanisms available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities? | 0  |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |

| <b>Financing mechanisms for energy efficiency</b>                                   | <b>Score</b> | <b>0</b> |
|---|--------------|----------|
| Residential sector  |              |          |
| Are there tax incentives available for energy efficiency investments?               | No           |          |
| Are there discounted "green" mortgages available for energy efficiency investments? | No           |          |
| Is on-bill financing/re-payment available for energy efficiency investments?        | No           |          |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Are credit lines available for energy efficiency investments?   | No |
| Are energy services agreements or ESCOs available for energy efficiency investments?  | No |
| Are green bonds available for energy efficiency investments?  | No |
| Is vendor credit and/or leasing available for energy efficiency investments?  | No |
| Are partial risk guarantees available for energy efficiency investments?  | No |
| Are there any other financing mechanisms available for energy efficiency investments?   | No |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
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| Are these available as government-driven financing mechanisms?  | No |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |
| Details   |    |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |
| Commercial services sector  |    |
| Are there tax incentives available for energy efficiency investments?   | No |
| Are there discounted "green" mortgages available for energy efficiency investments?   | No |
| Is on-bill financing/re-payment available for energy efficiency investments?  | No |
| Are credit lines available for energy efficiency investments?   | No |
| Are energy services agreements or ESCOs available for energy efficiency investments?  | No |
| Are green bonds available for energy efficiency investments?  | No |
| Is vendor credit and/or leasing available for energy efficiency investments?  | No |
| Are partial risk guarantees available for energy efficiency investments?  | No |
| Are there any other financing mechanisms available for energy efficiency investments?   | No |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
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| Are these available as government-driven financing mechanisms?  | No |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |
| Details   |    |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |
| Industrial sector   |    |
| Are there tax incentives available for energy efficiency investments?   | No |
| Are there discounted "green" mortgages available for energy efficiency investments?   | No |
| Is on-bill financing/re-payment available for energy efficiency investments?  | No |
| Are credit lines available for energy efficiency investments?   | No |
| Are energy services agreements or ESCOs available for energy efficiency investments?  | No |
| Are green bonds available for energy efficiency investments?  | No |
| Is vendor credit and/or leasing available for energy efficiency investments?  | No |
| Are partial risk guarantees available for energy efficiency investments?  | No |
| Are there any other financing mechanisms available for energy efficiency investments?   | No |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |
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## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |
| Details   |    |
| Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? | No |
| Are these available as government-driven financing mechanisms?  | No |

| <b>Minimum energy efficiency performance standards</b>                  | <b>Score</b> | <b>0</b> |
|---|--------------|----------|
| EE standards regulations  |              |          |
| Refrigerators   |              |          |
| Have minimum energy performance standards been adopted?                 | No           |          |
| Details of standards  | N/A          |          |
| Is there a verification program in place?                               | No           |          |
| Is it carried out by a third party?                                     | No           |          |
| Is there a penalty for non-compliance with energy efficiency standards? | No           |          |
| Are the standards based on external/international standards?            | No           |          |
| Air conditioners  |              |          |
| Have minimum energy performance standards been adopted?                 | No           |          |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Details of standards  | N/A |
| Is there a verification program in place?                               | No  |
| Is it carried out by a third party?                                     | No  |
| Is there a penalty for non-compliance with energy efficiency standards? | No  |
| Are the standards based on external/international standards?            | No  |
| Lighting equipment  |     |
| Have minimum energy performance standards been adopted?                 | No  |
| Details of standards  | N/A |
| Is there a verification program in place?                               | No  |
| Is it carried out by a third party?                                     | No  |
| Is there a penalty for non-compliance with energy efficiency standards? | No  |
| Are the standards based on external/international standards?            | No  |
| Industrial electric motors  |     |
| Have minimum energy performance standards been adopted?                 | No  |
| Details of standards  | N/A |
| Is there a verification program in place?                               | No  |
| Is it carried out by a third party?                                     | No  |
| Is there a penalty for non-compliance with energy efficiency standards? | No  |
| Are the standards based on external/international standards?            | No  |



## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Other industrial equipment  |     |
| Have minimum energy performance standards been adopted?                 | No  |
| Details of standards  | N/A |
| Is there a verification program in place?                               | No  |
| Is it carried out by a third party?                                     | No  |
| Is there a penalty for non-compliance with energy efficiency standards? | No  |
| Are the standards based on external/international standards?            | No  |
| Light duty vehicles   |     |
| Have minimum energy performance standards been adopted?                 | No  |
| Details of standards  | N/A |
| Is there a verification program in place?                               | No  |
| Is it carried out by a third party?                                     | No  |
| Is there a penalty for non-compliance with energy efficiency standards? | No  |
| Are the standards based on external/international standards?            | No  |
| Heavy duty vehicles   |     |
| Have minimum energy performance standards been adopted?                 | No  |
| Details of standards  | N/A |
| Is there a verification program in place?                               | No  |
| Is it carried out by a third party?                                     | No  |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Is there a penalty for non-compliance with energy efficiency standards? | No |
| Are the standards based on external/international standards?            | No |

| <b>Energy labeling systems</b>                                    | <b>Score</b> | <b>0</b> |
|---|--------------|----------|
| Refrigerators   |              |          |
| Have energy efficiency labeling schemes been adopted?             | No           |          |
| Is the labeling scheme mandatory?                                 | No           |          |
| Is the labeling scheme based on external/international standards? | No           |          |
| Air conditioners  |              |          |
| Have energy efficiency labeling schemes been adopted?             | No           |          |
| Is the labeling scheme mandatory?                                 | No           |          |
| Is the labeling scheme based on external/international standards? | No           |          |
| Lighting equipment  |              |          |
| Have energy efficiency labeling schemes been adopted?             | No           |          |
| Is the labeling scheme mandatory?                                 | No           |          |
| Is the labeling scheme based on external/international standards? | No           |          |
| Industrial electric motors  |              |          |
| Have energy efficiency labeling schemes been adopted?             | No           |          |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Is the labeling scheme mandatory?                                 | No |
| Is the labeling scheme based on external/international standards? | No |
| Other industrial equipment  |    |
| Have energy efficiency labeling schemes been adopted?             | No |
| Is the labeling scheme mandatory?                                 | No |
| Is the labeling scheme based on external/international standards? | No |
| Light duty vehicles   |    |
| Have energy efficiency labeling schemes been adopted?             | No |
| Is the labeling scheme mandatory?                                 | No |
| Is the labeling scheme based on external/international standards? | No |
| Heavy duty vehicles   |    |
| Have energy efficiency labeling schemes been adopted?             | No |
| Is the labeling scheme mandatory?                                 | No |
| Is the labeling scheme based on external/international standards? | No |

| <b>Building energy codes</b>                                     | <b>Score</b> | <b>0</b> |
|--|--------------|----------|
| Are there energy efficiency codes for new residential buildings? | No           |          |
| Are there energy efficiency codes for new commercial buildings?  | No           |          |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |    |
|--|----|
| Is the energy efficiency code for new residential buildings its own stand-alone, separate code or part of the overall building code?       | No |
| Is the energy efficiency code for new commercial buildings its own stand-alone, separate code or part of the overall building code?        | No |
| Is there any provision for regular updates to the code for new residential buildings?  | No |
| Is there any provision for regular updates to the code for new commercial buildings?   | No |
| EE building code regulations   |    |
| When was the code last updated for residential buildings?  | 0  |
| When was the code last updated for commercial buildings?   | 0  |
| Is there a system to ensure compliance with building energy efficiency codes?  | No |
| Is it carried out by a third party?  | No |
| Are renovated residential buildings required to meet a building energy code?   | No |
| Are renovated commercial buildings required to meet a building energy code?  | No |
| Is the energy efficiency code for renovated residential buildings different from the code for new buildings?                               | No |
| Is the energy efficiency code for renovated commercial buildings different from the code for new buildings?                                | No |
| Is the energy efficiency code for renovated residential buildings its own stand-alone, separate code or part of the overall building code? | No |
| Is the energy efficiency code for renovated commercial buildings its own stand-alone, separate code or part of the overall building        | No |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |    |
|--|----|
| code?  |    |
| Is there any provision for regular updates to the code for renovated residential buildings?  | No |
| Is there any provision for regular updates to the code for renovated commercial buildings?   | No |
| Is there a mandatory standardized rating or labeling system for the energy performance of existing buildings?  | No |
| Is the labeling scheme or rating adopted from external standards?  | No |
| Are commercial and residential buildings required to disclose property energy usage at the point of sale or when leased?   | No |
| Are large commercial and residential buildings required to disclose property energy usage annually?  | No |
| Are there mandates or targets for new building stocks to achieve high quality energy efficiency certifications, such as LEED (Leadership in Energy & Environmental Design) (e.g. percentage of new building stocks that must be LEED certified)? | No |
| Details  | 0  |
| LEED incentives  | No |
| Local program details  | 0  |

| <b>Carbon Pricing</b>  | <b>Score</b> | <b>0</b> |
|--|--------------|----------|
| Is there a carbon pricing mechanism in place?  | No           |          |
| For any carbon pricing mechanism (e.g. carbon tax, emission trading system), what is the portion of national GHG emissions covered)? | 0            |          |
| Is there a monitoring, reporting and verification system for greenhouse gas emissions in place?                                      | No           |          |

## Regulatory Indicators for Sustainable Energy (RISE)

### Renewable Energy

| Legal framework for renewable energy   | Score | 0  |
|--|-------|----|
| Does a legal framework for renewable energy development exist?                 |       | No |
| Name of the Law  |       | 0  |
| Is private sector ownership of renewable energy generation legally authorized? |       | No |

| Planning for renewable energy expansion  | Score | 58    |
|--|-------|-------|
| Does an official renewable energy target exist?  |       | Yes   |
| Overall target   |       | 65 MW |
| Solar target   |       | 60 MW |
| Wind target  |       | 5 MW  |
| Hydro target   |       |       |
| Biomass target   |       |       |
| Geothermal target  |       |       |
| Does a renewable energy action plan or strategy to attain the target exist?                |       | Yes   |
| Name of the action plan  |       | 0     |
| Does the plan or strategy define the amount of investment necessary to meet the RE target? |       | Yes   |
| The amount of investment identified  |       | 0     |
| Is there an institution responsible for tracking progress in renewable energy development? |       | Yes   |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |     |
|---|-----|
| Name of the institution   | 0   |
| Does an electricity generation plan that includes renewable energy development exist?   | Yes |
| Name of the generation plan   | 0   |
| Is the expansion plan based on a probabilistic approach?  | No  |
| Does the current transmission planning consider renewable energy scale-up?  | Yes |
| Name of the transmission plan   | 0   |
| Has the country conducted a variable renewable energy integration study?  | No  |
| Name of the integration study   | 0   |
| Year of the integration study   | N/A |
| Does the country have sufficient resource abundance to warrant a solar resource atlas?  | Yes |
| Does the government publish or endorse a solar resource atlas or other data on the abundance and quality of the resource?           | Yes |
| Solar atlas is validated by at least 5 ground-based measurements taken for a period of at least a year;                             | No  |
| Solar atlas has a spatial resolution of 5km or less;  | Yes |
| Solar atlas is based on modeling inputs covering at least a 10 year period;   | No  |
| Solar atlas is accompanied by an explanation of the methodology and instrumentation   | No  |
| Has the country carried out strategic planning or produced zoning guidance to inform the commercial development of solar resources? | No  |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| Has the solar resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process? | No  |
| Are the solar resource planning or zoning guidance outputs publically available?   | No  |
| Does the country have sufficient resource abundance to warrant a wind resource atlas?  | Yes |
| Does the government publish or endorse a wind resource atlas or other data on the abundance and quality of the resource?                             | Yes |
| Wind atlas is validated by at least 5 ground-based measurements taken for a period of at least a year;   | No  |
| Wind atlas has a spatial resolution of 5km or less;  | Yes |
| Wind atlas is based on modeling inputs covering at least a 10 year period;   | No  |
| Wind atlas is accompanied by an explanation of the methodology and instrumentation   | No  |
| Has the country carried out strategic planning or produced zoning guidance to inform the commercial development of wind resources?                   | No  |
| Has the wind resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process?  | No  |
| Are the wind resource planning or zoning guidance outputs publically available?  | No  |
| Does the country have sufficient resource abundance to warrant a hydro resource atlas?   | No  |
| Does the country publish or endorse a national hydro resource map or atlas?  | No  |
| Hydro atlas is validated by ground-based water run-off data and/or site surveys from potential sites;  | No  |



## Regulatory Indicators for Sustainable Energy (RISE)

|  |    |
|--|----|
| Hydro atlas is accompanied by an explanation of the methodology and instrumentation  | No |
| Has the country carried out strategic planning or produced zoning guidance to inform the commercial development of hydro resources?                    | No |
| Has the hydro resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process?   | No |
| Are the hydro resource planning or zoning guidance outputs publically available?   | No |
| Does the country have sufficient resource abundance to warrant a biomass resource atlas?   | No |
| Does the country publish or endorse a national biomass resource map or atlas?  | No |
| Biomass atlas is validated by ground-based survey or officially reported data;   | No |
| Biomass atlas is accompanied by an explanation of the methodology and instrumentation.   | No |
| Has the biomass resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process? | No |
| Are the biomass resource planning or zoning guidance outputs publically available?   | No |
| Does the country have sufficient resource abundance to warrant a geothermal resource atlas?  | No |
| Does the country publish or endorse a national geothermal resource map or atlas?   | No |
| The government has collected and recorded well data at potential geothermal sites?   | No |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Does the government publish a national geological map?  | No |
| The government has supported surface exploration (geological; geochemical; temp; gradient) at potential sites?  | No |
| The government has supported test drilling at at least one site (slim bore or full well)?   | No |
| The government has supported the creation of a reservoir model at at least one site?  | No |
| Has the country carried out strategic geothermal resource planning or produced zoning guidance to inform the commercial development of the resource?      | No |
| Has the geothermal resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process? | No |
| Are the geothermal resource planning or zoning guidance outputs publically available?   | No |

| <b>Incentives and regulatory support for renewable energy</b>   | <b>Score</b> |
|---|--------------|
|   | <b>0</b>     |
| Is there at least one scheme to support renewable energy per unit of electricity generated? (e.g., feed-in tariff, competitive bidding/auction, mandates, generation premiums, production tax credits)? | No           |
| Feed-in tariff  | No           |
| Feed-in tariff - Solar  | No           |
| Feed-in tariff - Wind   | No           |
| Feed-in tariff - Hydro  | No           |
| Feed-in tariff - Biomass  | No           |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |    |
|--|----|
| Feed-in tariff - Geothermal                    | No |
| Government body in charge                      |    |
| Projects guaranteed off-take                   | No |
| Solar Feed-in-tariff Price (\$ cents/kWh)      |    |
| Solar Feed-in-tariff Max. capacity (single)    |    |
| Solar Feed-in-tariff Max. capacity (total)     |    |
| Solar Feed-in-tariff Closing date              |    |
| Wind Feed-in-tariff Price (\$ cents/kWh)       |    |
| Wind Feed-in-tariff Max. capacity (single)     |    |
| Wind Feed-in-tariff Max. capacity (total)      |    |
| Wind Feed-in-tariff Closing date               |    |
| Hydro Feed-in-tariff Price (\$ cents/kWh)      |    |
| Hydro Feed-in-tariff Max. capacity (single)    |    |
| Hydro Feed-in-tariff Max. capacity (total)     |    |
| Hydro Feed-in-tariff Closing date              |    |
| Biomass Feed-in-tariff Price (\$ cents/kWh)    |    |
| Biomass Feed-in-tariff Max. capacity (single)  |    |
| Biomass Feed-in-tariff Max. capacity (total)   |    |
| Biomass Feed-in-tariff Closing date            |    |
| Geothermal Feed-in-tariff Price (\$ cents/kWh) |    |

## Regulatory Indicators for Sustainable Energy (RISE)

|   |    |
|---|----|
| Geothermal Feed-in-tariff Max. capacity (single)  |    |
| Geothermal Feed-in-tariff Max. capacity (total)   |    |
| Geothermal Feed-in-tariff Closing date            |    |
| Competitive bidding                               | No |
| Auction 1 - Year                                  |    |
| Auction 1 - Technology                            |    |
| Auction 1 - Project-specific tender and size (MW) |    |
| Auction 1 - Auction for total and size (MW)       |    |
| Auction 1 - Standard PPA and Term                 |    |
| Auction 1 - Price ceiling                         | No |
| Auction 1 - Winning bid (\$ cents/kWh)            |    |
| Auction 1 - Government body in charge             |    |
| Auction 2 - Year                                  |    |
| Auction 2 - Technology                            |    |
| Auction 2 - Project-specific tender and size (MW) |    |
| Auction 2 - Auction for total and size (MW)       |    |
| Auction 2 - Standard PPA and Term                 |    |
| Auction 2 - Price ceiling                         | No |
| Auction 2 - Winning bid (\$ cents/kWh)            |    |
| Auction 2 - Government body in charge             |    |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |    |
|--|----|
| Winning bid guaranteed off-take  | No |
| Mandates   | No |
| Generation premium   | No |
| Production tax credit  | No |
| Does the government offer other direct fiscal incentives for renewable energy (e.g. capital subsidies, grants or rebates, investment tax credits, tax reductions?) | No |
| Investment tax credit  | No |
| Accelerated depreciation   | No |
| Reduction in import taxes  | No |
| Reduction in sales tax or other taxes  | No |
| Does the country provide prioritized access to the grid for RE?  | No |
| Do RE projects receive priority in dispatch?   | No |
| Are there provisions to compensate seller if offtake infrastructure is not built in time?  | No |
| Are there mechanisms to compensate RE projects for lost generation due to certain curtailments after project commissioning?  | No |

| Attributes of financial and regulatory incentives  | Score |
|--|-------|
| Is the market entry mechanism for private RE projects defined? (e.g. 1st come 1st served; tenders) | No    |
| Details  | 0     |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| Are projects subject to development timelines or milestones?   | No  |
| Are tariffs indexed (in part or in whole) to an international currency or to inflation?  | No  |
| If there is a guaranteed tariff, is there a mechanism to adjust the level of the tariff for new entrants (e.g., declination)?  | N/A |
| If there is a guaranteed tariff, is there a mechanism to differentiate tariffs based on the size of the generation plant?  | N/A |
| If there is competitive bidding/auctions, are there provisions to ensure full and timely project completion (e.g., bid-bonds, project milestones, eligibility requirements)? | N/A |
| If there is a renewable energy mandate, can it be met with tradable certificates (e.g., RECs, ROCs, TECs)?   | N/A |
| Is the price subsidy/benefit implied by a renewable energy incentive program passed through in full or in part to the final electricity consumer?                            | N/A |

| <b>Network connection and pricing</b>  | <b>Score</b> | <b>0</b> |
|--|--------------|----------|
| Are there rules defining the allocation of connection costs?   | No           |          |
| What is the type of the connection cost allocation policy (i.e. shallow/deep)?   | N/A          |          |
| Are there rules that allow electricity customers to purchase power directly from a third party (i.e. an entity other than the designated utility in a service area)? | No           |          |
| Do the rules define the size and allocation of costs for transmission and distribution wheeling charges? (e.g., wheeling charges, locational pricing?)               | No           |          |
| Do the rules consider customer type/size in determining eligibility for purchasing electricity from a third party?   | No           |          |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| connection cost document   | 0   |
| Does the country have a grid code that includes measures or standards addressing variable renewable energy?                              | No  |
| Is there more than one balancing area in the country?  | No  |
| Are there rules for exchanging power between balancing areas that penalize variable renewable energy (e.g. through imbalance penalties)? | N/A |
| Are there provisions in the power exchange rules that allow for plant forecasting?   | N/A |

| <b>Counterparty risk</b>   | <b>Score</b> | <b>6</b> |
|--|--------------|----------|
| Does the government offer or allow backing of utility payments (e.g. through a letter of credit, escrow account, payment guarantee, or other)? | No           |          |
| Information disclosure   | 8            |          |
| Are the financial statements of the largest utility publicly available?  | 0            |          |
| Are the financial statements of the largest generation company publicly available?   | No           |          |
| Are the financial statements of the largest transmission company publicly available?   | No           |          |
| Are the financial statements of the largest distribution company publicly available?   | No           |          |
| Are the financial statements of the largest retail electricity sales company publicly available?   | No           |          |
| Are the following metrics published in a primary official document (by the utility, regulator or ministry and/or government)?                  | 0            |          |

## Regulatory Indicators for Sustainable Energy (RISE)

|  |     |
|--|-----|
| Is the transmission loss rate published in a primary official document (by the utility, regulator or ministry and/or government)?                                | Yes |
| Is the distribution loss rate published in a primary official document (by the utility, regulator or ministry and/or government)?                                | Yes |
| Is the bill collection rate published in a primary official document (by the utility, regulator or ministry and/or government)?                                  | No  |
| Is the amount of electricity available for sale to end-users published in a primary official document (by the utility, regulator or ministry and/or government)? | No  |
| Information Auditing   | 0   |
| Financial statements independently audited?  | 0   |
| Are the financial statements of the largest generation company audited?  | No  |
| Are the financial statements of the largest transmission company audited?  | No  |
| Are the financial statements of the largest distribution company audited?  | No  |
| Are the financial statements of the largest retail electricity sales company audited?  | No  |
| Monitoring Reliability   | 0   |
| Is the utility operating an incidence/outage recording system (or SCADA/EMS with such functionality)?  | No  |
| Is the utility measuring the SAIDI and SAIFI or any other measurements for service reliability?  | No  |
| Are the data reported to the regulatory body?  | Yes |



## Regulatory Indicators for Sustainable Energy (RISE)

|   |                                     |
|---|-------------------------------------|
| Are the data available to the public?                     | No                                  |
| Name of the selected utility                              | Eritrean Electric Corporation (EEC) |
| data - 17.1. Current ratio (working capital ratio)        | no data                             |
| data - 17.2 Debt Service Coverage Ratio                   | N/A                                 |
| data - 17.3 Days payable outstanding                      | no data                             |
| data - 17.4 EBITDA margin                                 | no data                             |
| Current ratio (working capital ratio) of selected utility | 0                                   |
| Debt Service Coverage Ratio of selected utility           | 0                                   |
| Days payable outstanding of selected utility              | 0                                   |
| EBITDA margin of selected utility                         | 0                                   |

| <b>Carbon pricing and monitoring</b>   | <b>Score</b> | <b>0</b> |
|--|--------------|----------|
| Is there a carbon pricing mechanism in place?  |              | No       |
| For any carbon pricing mechanism (e.g. carbon tax, emission trading system), what is the portion of national GHG emissions covered)? |              | 0%       |
| Is there a monitoring, reporting and verification system for greenhouse gas emissions in place?                                      |              | No       |