

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

### Energy Efficiency

Indicator	Score
National energy efficiency planning	91.67
Energy efficiency entities	85.71
Information provided to consumers about electricity usage	62.5
EE incentives from electricity rate structures	37.04
Incentives & mandates: large consumers	77.78
Incentives & mandates: public sector	0
Incentives & mandates: utilities	16.67
Financing mechanisms for energy efficiency	91.67
Minimum energy efficiency performance standards	41.67
Energy labeling systems	83.33
Building energy codes	20
Carbon Pricing	0
<b>Total</b>	<b>50.67</b>

### Renewable Energy

Indicator	Score
Legal framework for renewable energy	100
Planning for renewable energy expansion	58
Incentives and regulatory support for renewable energy	75
Attributes of financial and regulatory incentives	67
Network connection and pricing	58
Counterparty risk	51
Carbon pricing and monitoring	0
<b>Total</b>	<b>58.43</b>

## Regulatory Indicators for Sustainable Energy (RISE)

**Overall Score**

**36.37**

### Energy Efficiency

National energy efficiency planning	Score	91.67
Is there legislation or a national action plan that aims to increase EE?		Yes
Name of EE legislation or action plan		Resolution 18919 of 21 adopting the Indicative Action Plan 21-215 to develop the Program for the Rational and Efficient Use of Energy and other Forms of Non Conventional Energy - PROURE
Is there an energy efficiency goal or target at the national level?		Yes
National target details		The national target for electric energy consumption (kWh) is 14.8% cumulated savings by 2015, with a 2010 baseline. The plan includes an analysis of the potential electric and other energy savings and actual targets by sector and by year (residential, industrial, commercial, and transportation sectors; 2010/2015)
Is there a target for the residential sector?		Yes
Target details		8.66% cumulated electricity consumption savings by 2015 with a 2010 baseline.

## Regulatory Indicators for Sustainable Energy (RISE)

Does the target have a milestone or deadline?	Yes
Is there a commercial services sector target?	Yes
Target details	2.66% cumulated electricity consumption savings by 2015 with a 2010 baseline (the target includes the commercial, public and service sector).
Does the target have a milestone or deadline?	Yes
Is there an industrial sector target?	Yes
Target details	3.43% cumulated electricity consumption savings by 2015 with a 2010 baseline.
Does the target have a milestone or deadline?	Yes
Is there a power sector target?	No
Target details	0
Does the target have a milestone or deadline?	No

<b>Energy efficiency entities</b>	<b>Score</b>	<b>85.71</b>
Are there governmental and/or independent bodies dedicated to setting EE strategy?	Yes	
Name of entity	Ministerio de Minas y Energía	
Are there governmental and/or independent bodies dedicated to setting EE standards?	Yes	

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Name of entity	Colombian Institute for Technical Standards and Certification
Are there governmental and/or independent bodies dedicated to regulating EE activities of energy suppliers?	Yes
Name of entity	0
Are there governmental and/or independent bodies dedicated to regulating EE activities of energy consumers?	No
Name of entity	0
Are there governmental and/or independent bodies dedicated to certifying compliance with equipment EE standards?	Yes
Name of entity	Superintendent of Industry and Commerce and the Directorate of national Taxes and Customs
Are there governmental and/or independent bodies dedicated to certifying compliance with building EE standards?	Yes
Name of entity	Ministry of Housing, City and Territory
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	national Agency for Accreditation of Colombia

### Information provided to consumers about electricity usage

**Score**

**62.5**

Residential customers

## Regulatory Indicators for Sustainable Energy (RISE)

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
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?	Yes
Residential customers	

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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	
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	No

## Regulatory Indicators for Sustainable Energy (RISE)

track real time usage?

<b>EE incentives from electricity rate structures</b>	<b>Score</b>	<b>37.04</b>
Residential 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?	Yes	
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	

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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
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



## Regulatory Indicators for Sustainable Energy (RISE)

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	
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	77.78
What is the threshold for classifying large consumers?		Minimum 0.1 MW of power or 55 MWh of consumption per month
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?		Yes
Are efficiency targets mandated for large consumers?		No
Details		N/A
Are energy audits mandated for large consumers?		No
Are energy efficiency progress reports mandated for large consumers?		No

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Interval of reports	N/A
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
Is there a measurement and verification program in place?	Yes
Is verification done by a third party?	No
Are there financial incentives for large consumers to invest in energy efficiency?	Yes
Details	Credit line for energy efficiency
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?	Yes
Are energy savings and/or financial savings publicized?	Yes
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)	1322601.91

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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
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	16.67
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		No

## Regulatory Indicators for Sustainable Energy (RISE)

third party?	
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?	Yes
Details	There is an incentive for distributors to keep line losses below the maximum line losses levels defined by the regulator, as higher loss levels will not be revenue-recognized and will lower the distributor's income. The levels of reportable technical losses are defined by voltage, year and location
Are energy savings or other target indicators measured to track performance in meeting EE requirements?	Yes
Are the requirements measured/validated by an independent third party?	Yes
Are there penalties in place for non-compliance with EE requirements?	Yes
Demand-side management -	
Are utilities required to carry out energy efficiency activities in this area?	No
Details	N/A

## Regulatory Indicators for Sustainable Energy (RISE)

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?	Yes
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
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	No

## Regulatory Indicators for Sustainable Energy (RISE)

efficiency activities?	
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
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	0

## Regulatory Indicators for Sustainable Energy (RISE)

energy efficiency activities?	
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>91.67</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	
Are credit lines available for energy efficiency investments?	No	
Are energy services agreements or ESCOs available for energy efficiency investments?	Yes	
Are green bonds available for energy efficiency investments?	No	
Is vendor credit and/or leasing available for energy efficiency investments?	Yes	
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	

## Regulatory Indicators for Sustainable Energy (RISE)

Are these available as government-driven financing mechanisms?	No
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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	



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Are there tax incentives available for energy efficiency investments?	Yes
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?	Yes
Are energy services agreements or ESCOs available for energy efficiency investments?	Yes
Are green bonds available for energy efficiency investments?	No
Is vendor credit and/or leasing available for energy efficiency investments?	Yes
Are partial risk guarantees available for energy efficiency investments?	No
Are there any other financing mechanisms available for energy efficiency investments?	No
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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	

## Regulatory Indicators for Sustainable Energy (RISE)

Are there tax incentives available for energy efficiency investments?	Yes
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?	Yes
Are energy services agreements or ESCOs available for energy efficiency investments?	Yes
Are green bonds available for energy efficiency investments?	No
Is vendor credit and/or leasing available for energy efficiency investments?	Yes
Are partial risk guarantees available for energy efficiency investments?	No
Are there any other financing mechanisms available for energy efficiency investments?	No
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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

## Regulatory Indicators for Sustainable Energy (RISE)

Minimum energy efficiency performance standards	Score	41.67
EE standards regulations		Colombia NTC 513, 4366, 52, 534, 515, Energética Eficiencia
Refrigerators		
Have minimum energy performance standards been adopted?		Yes
Details of standards		Energy savings compared to a baseline (%) (for domestic refrigerators only, multiple levels of savings determine labeling level)
Is there a verification program in place?		Yes
Is it carried out by a third party?		Yes
Is there a penalty for non-compliance with energy efficiency standards?		Yes
Are the standards based on external/international standards?		No
Air conditioners		
Have minimum energy performance standards been adopted?		Yes
Details of standards		ratio of thermal power by electrical power (Wt/We) of min. 3.25 for standalone systems and 2.75 for room air conditioners and compact systems.
Is there a verification program in place?		Yes
Is it carried out by a third party?		Yes

## Regulatory Indicators for Sustainable Energy (RISE)

Is there a penalty for non-compliance with energy efficiency standards?	Yes
Are the standards based on external/international standards?	No
Lighting equipment	
Have minimum energy performance standards been adopted?	No
Details of standards	kWh/year and energy efficiency factor based on illumination or light output, relative to a standard baseline
Is there a verification program in place?	Yes
Is it carried out by a third party?	Yes
Is there a penalty for non-compliance with energy efficiency standards?	Yes
Are the standards based on external/international standards?	No
Industrial electric motors	
Have minimum energy performance standards been adopted?	No
Details of standards	0
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
Other industrial equipment	

## Regulatory Indicators for Sustainable Energy (RISE)

Have minimum energy performance standards been adopted?	No
Details of standards	0
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	0
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	0
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

## Regulatory Indicators for Sustainable Energy (RISE)

Are the standards based on external/international standards?	No
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Energy labeling systems	Score	83.33
Refrigerators		
Have energy efficiency labeling schemes been adopted?	Yes	
Is the labeling scheme mandatory?	Yes	
Is the labeling scheme based on external/international standards?	No	
Air conditioners		
Have energy efficiency labeling schemes been adopted?	Yes	
Is the labeling scheme mandatory?	Yes	
Is the labeling scheme based on external/international standards?	No	
Lighting equipment		
Have energy efficiency labeling schemes been adopted?	Yes	
Is the labeling scheme mandatory?	Yes	
Is the labeling scheme based on external/international standards?	No	
Industrial electric motors		
Have energy efficiency labeling schemes been adopted?	Yes	
Is the labeling scheme mandatory?	Yes	
Is the labeling scheme based on external/international standards?	No	



## Regulatory Indicators for Sustainable Energy (RISE)

Other industrial equipment	
Have energy efficiency labeling schemes been adopted?	Yes
Is the labeling scheme mandatory?	Yes
Is the labeling scheme based on external/international standards?	Yes
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>20</b>
Are there energy efficiency codes for new residential buildings?	Yes	
Are there energy efficiency codes for new commercial buildings?	Yes	
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	

## Regulatory Indicators for Sustainable Energy (RISE)

Is there any provision for regular updates to the code for new residential buildings?	Yes
Is there any provision for regular updates to the code for new commercial buildings?	Yes
EE building code regulations	Colombia Decree 1285 of 2015 which modifies decree 177 of 2015, Regulatory Decree of the Housing, City and Territory Sector, on guidelines for sustainable construction of buildings
When was the code last updated for residential buildings?	2010
When was the code last updated for commercial buildings?	2010
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 code?	No

## Regulatory Indicators for Sustainable Energy (RISE)

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	N/A
LEED incentives	No
Local program details	N/A

<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	100
Does a legal framework for renewable energy development exist?		Yes
Name of the Law		Law 1715 of 2014 regulates the incorporation of non conventional renewable energies to the National Energy System
Is private sector ownership of renewable energy generation legally authorized?		Yes

Planning for renewable energy expansion	Score	58
Does an official renewable energy target exist?		Yes
Overall target		MThe share of renewable electric power generation will be of a percentage no less than 77% of the total installed capacity by year 2020, within the energy matrix.
Solar target		
Wind target		
Hydro target		
Biomass target		
Geothermal target		
Does a renewable energy action plan or strategy to attain the target exist?		No

## Regulatory Indicators for Sustainable Energy (RISE)

Name of the action plan	0
Does the plan or strategy define the amount of investment necessary to meet the RE target?	No
The amount of investment identified	0
Is there an institution responsible for tracking progress in renewable energy development?	Yes
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?	Yes
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	2014 and 2015
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;	Yes
Solar atlas has a spatial resolution of 5km or less;	No

## Regulatory Indicators for Sustainable Energy (RISE)

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	Yes
Has the country carried out strategic planning or produced zoning guidance to inform the commercial development of solar resources?	No
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;	Yes
Wind atlas has a spatial resolution of 5km or less;	No
Wind atlas is based on modeling inputs covering at least a 10 year period;	Yes
Wind atlas is accompanied by an explanation of the methodology and instrumentation	Yes
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

## Regulatory Indicators for Sustainable Energy (RISE)

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?	Yes
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
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?	Yes
Biomass atlas is validated by ground-based survey or officially reported data;	Yes
Biomass atlas is accompanied by an explanation of the methodology and instrumentation.	Yes
Has the biomass resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process?	No

## Regulatory Indicators for Sustainable Energy (RISE)

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?	Yes
Does the country publish or endorse a national geothermal resource map or atlas?	No
The governmentn has collected and recorded well data at potential geothermal sites?	No
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?nt 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>75</b>
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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)?	Yes
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## Regulatory Indicators for Sustainable Energy (RISE)

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

## Regulatory Indicators for Sustainable Energy (RISE)

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

## Regulatory Indicators for Sustainable Energy (RISE)

Auction 2 - Auction for total and size (MW)	N/A
Auction 2 - Standard PPA and Term	N/A
Auction 2 - Price ceiling	No
Auction 2 - Winning bid (\$ cents/kWh)	N/A
Auction 2 - Government body in charge	N/A
Winning bid guaranteed off-take	No
Mandates	No
Generation premium	No
Production tax credit	Yes
Does the government offer other direct fiscal incentives for renewable energy (e.g. capital subsidies, grants or rebates, investment tax credits, tax reductions?)	Yes
Investment tax credit	No
Accelerated depreciation	Yes
Reduction in import taxes	Yes
Reduction in sales tax or other taxes	Yes
Does the country provide prioritized access to the grid for RE?	No
Do RE projects receive priority in dispatch?	Yes
Are there provisions to compensate seller if offtake infrastructure is not built in time?	Yes
Are there mechanisms to compensate RE projects for lost generation due to certain curtailments after project commissioning?	No

## Regulatory Indicators for Sustainable Energy (RISE)

Attributes of financial and regulatory incentives	Score	67
Is the market entry mechanism for private RE projects defined? (e.g. 1st come 1st served; tenders)		No
Details		0
Are projects subject to development timelines or milestones?		Yes
Are tariffs indexed (in part or in whole) to an international currency or to inflation?		Yes
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?		No

Network connection and pricing	Score	58
Are there rules defining the allocation of connection costs?		Yes
What is the type of the connection cost allocation policy (i.e. shallow/deep)?		Deep
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)?		Yes

## Regulatory Indicators for Sustainable Energy (RISE)

Do the rules define the size and allocation of costs for transmission and distribution wheeling charges? (e.g., wheeling charges, locational pricing?)	Yes
Do the rules consider customer type/size in determining eligibility for purchasing electricity from a third party?	Yes
connection cost document	Resolution CREG 103
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>51</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	33	
Are the financial statements of the largest utility publicly available?	0	
Are the financial statements of the largest generation company publicly available?	Yes	
Are the financial statements of the largest transmission company publicly available?	Yes	
Are the financial statements of the largest distribution company publicly available?	Yes	

## Regulatory Indicators for Sustainable Energy (RISE)

Are the financial statements of the largest retail electricity sales company publicly available?	Yes
Are the following metrics published in a primary official document (by the utility, regulator or ministry and/or government)?	0
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)?	Yes
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)?	Yes
Information Auditing	33
Financial statements independently audited?	0
Are the financial statements of the largest generation company audited?	Yes
Are the financial statements of the largest transmission company audited?	Yes
Are the financial statements of the largest distribution company audited?	Yes
Are the financial statements of the largest retail electricity sales company audited?	Yes
Monitoring Reliability	0
Is the utility operating an incidence/outage recording system (or SCADA/EMS with such functionality)?	Yes

## Regulatory Indicators for Sustainable Energy (RISE)

Is the utility measuring the SAIDI and SAIFI or any other measurements for service reliability?	Yes
Are the data reported to the regulatory body?	Yes
Are the data available to the public?	Yes
Name of the selected utility	CONDENSA
data - 17.1. Current ratio (working capital ratio)	1
data - 17.2 Debt Service Coverage Ratio	3
data - 17.3 Days payable outstanding	158
data - 17.4 EBITDA margin	0
Current ratio (working capital ratio) of selected utility	0
Debt Service Coverage Ratio of selected utility	25
Days payable outstanding of selected utility	4
EBITDA margin of selected utility	25

<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	