

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

Energy Efficiency

Indicator	Score
National energy efficiency planning	66.67
Energy efficiency entities	100
Information provided to consumers about electricity usage	57.64
EE incentives from electricity rate structures	81.48
Incentives & mandates: large consumers	100
Incentives & mandates: public sector	87.5
Incentives & mandates: utilities	87.5
Financing mechanisms for energy efficiency	83.33
Minimum energy efficiency performance standards	94.44
Energy labeling systems	83.33
Building energy codes	36.67
Carbon Pricing	73.87
Total	79.37

Renewable Energy

Indicator	Score
Legal framework for renewable energy	100
Planning for renewable energy expansion	73
Incentives and regulatory support for renewable energy	88
Attributes of financial and regulatory incentives	50
Network connection and pricing	61
Counterparty risk	56
Carbon pricing and monitoring	74
Total	71.71

Regulatory Indicators for Sustainable Energy (RISE)

Overall Score

50.36

Energy Efficiency

National energy efficiency planning	Score	66.67
Is there legislation or a national action plan that aims to increase EE?		Yes
Name of EE legislation or action plan		Law for the Sustainable Use of Energy
Is there an energy efficiency goal or target at the national level?		Yes
National target details		For 2018, the target is to maintain or reduce the energy intensity index of the country, compared to 2012. The energy intensity index measures the energy required to produce one peso of Gross Domestic Product (GDP) of the national economy, measured in kJ/\$. It is calculated based on the total energy consumption for the entire country, divided by its GDP on an annual basis.
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 services sector target?		No
Target details		N/A

Regulatory Indicators for Sustainable Energy (RISE)

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	SENER	
Are there governmental and/or independent bodies dedicated to setting EE standards?	Yes	
Name of entity	CONUEE	
Are there governmental and/or independent bodies dedicated to regulating EE activities of energy suppliers?	Yes	
Name of entity	CONUEE	
Are there governmental and/or independent bodies dedicated to regulating EE activities of energy consumers?	Yes	
Name of entity	CONUEE	
Are there governmental and/or independent bodies dedicated to certifying compliance with equipment EE standards?	Yes	

Regulatory Indicators for Sustainable Energy (RISE)

Name of entity	Accredited
Are there governmental and/or independent bodies dedicated to certifying compliance with building EE standards?	Yes
Name of entity	EMA
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	EMA

Information provided to consumers about electricity usage	Score	57.64
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	
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)?	6	
Do the reports include the price levels customers pay for energy usage?	Yes	

Regulatory Indicators for Sustainable Energy (RISE)

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	
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	

Regulatory Indicators for Sustainable Energy (RISE)

Do customers receive a bill or report that shows their energy usage compared to previous bills or reports over time?	No
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

EE incentives from electricity rate structures	Score	81.48
Residential customers		
Are customers charged a flat fee (per connection)?	Yes	
Are customers charged constant block rates?	No	
Are customers charged declining block rates?	No	
Are customers charged increasing block rates?	Yes	
Commercial customers		
Are customers charged a flat fee (per connection)?	Yes	

Regulatory Indicators for Sustainable Energy (RISE)

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)?	Yes
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
Do customers pay demand charges (per kW)?	Yes
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)?	Yes
Do customers pay reactive power charges (per kVAR)?	No

Regulatory Indicators for Sustainable Energy (RISE)

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?	Yes
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?	Yes
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?	Yes
Do customers pay according to time-of-day electricity use or receive peak-time rebates?	No

Regulatory Indicators for Sustainable Energy (RISE)

Incentives & mandates: large consumers	Score	100
What is the threshold for classifying large consumers?		Individuals and legal entities having an electricity consumption of greater than 6GWh per year, or an annual fuel consumption of greater than 9000 barrels of crude oil equivalent, or operating a fleet of vehicles comprised of more than 100 units, are considered large energy users.
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		0
Are energy audits mandated for large consumers?		No
Are energy efficiency progress reports mandated for large consumers?		Yes
Interval of reports		Annual
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?		Yes
Is there a measurement and verification program in place?		Yes
Is verification done by a third party?		No

Regulatory Indicators for Sustainable Energy (RISE)

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?	Yes
Details	Energy Management Program PRONASGEN
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?	Yes
Primary Energy Consumption (MJ - latest GTF data from 2012)	1339431.789

Incentives & mandates: public sector	Score	87.5
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)?		Yes
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)?		Yes
Are energy savings from efficiency activities at other public facilities tracked?		Yes

Regulatory Indicators for Sustainable Energy (RISE)

Is there a specific policy or mandated guidelines for public procurement of energy-efficient products and services?	Yes
Public procurement guidelines for EE	Law of Acquisitions, Leases and Public Sector Services
Do public budgeting regulations and practices allow public entities to retain energy savings?	Yes
Public budgeting regulations for EE	Law of Acquisitions, Leases and Public Sector Services

Incentives & mandates: utilities	Score	87.5
Name of utility energy efficiency regulation program		CFE Annual Report
Electricity generation		
Are utilities required to carry out energy efficiency activities in this area?		Yes
Details		Not published
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?		No
Are there mandates or incentives for new and/or brownfield co-generation?		No
Transmission & distribution		

Regulatory Indicators for Sustainable Energy (RISE)

Are utilities required to carry out energy efficiency activities in this area?	Yes
Details	Not published
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?	No
Demand-side management -	
Are utilities required to carry out energy efficiency activities in this area?	Yes
Details	Not published
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?	No
Is there a demand-side management department within the selected utility?	Yes
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?	Yes
Is there compensation for revenue losses via a tracking account available for utilities to recover costs associated with or revenue	No

Regulatory Indicators for Sustainable Energy (RISE)

lost from mandated 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
Are there credit lines available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?	Yes
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	Yes
Are these available as government-driven financing mechanisms?	Yes
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	Yes

Regulatory Indicators for Sustainable Energy (RISE)

activities?	
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	Yes
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?	Yes
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	Yes
Are these available as government-driven financing mechanisms?	Yes
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

Financing mechanisms for energy efficiency	Score	83.33
Residential sector		
Are there tax incentives available for energy efficiency investments?	No	
Are there discounted "green" mortgages available for energy efficiency investments?	No	

Regulatory Indicators for Sustainable Energy (RISE)

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?	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
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
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

Regulatory Indicators for Sustainable Energy (RISE)

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
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?	Yes
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?	No
Are partial risk guarantees available for energy efficiency investments?	Yes

Regulatory Indicators for Sustainable Energy (RISE)

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?	Yes
Are these available as government-driven financing mechanisms?	Yes
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?	Yes
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	Yes
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
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
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?	Yes
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?	Yes
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?	No
Are partial risk guarantees available for energy efficiency investments?	Yes

Regulatory Indicators for Sustainable Energy (RISE)

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?	Yes
Are these available as government-driven financing mechanisms?	Yes
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?	Yes
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	Yes
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
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
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?	Yes
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

Minimum energy efficiency performance standards	Score	94.44
EE standards regulations		Mexican Official Standards in Energy Efficiency in force
Refrigerators		
Have minimum energy performance standards been adopted?	Yes	
Details of standards		Multiple standards kWh/year
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	

Regulatory Indicators for Sustainable Energy (RISE)

Are the standards based on external/international standards?	No
Air conditioners	
Have minimum energy performance standards been adopted?	Yes
Details of standards	Multiple standards BTU/Wh
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
Lighting equipment	
Have minimum energy performance standards been adopted?	Yes
Details of standards	Multiple standards W/m ² or lm/W
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?	Yes
Details of standards	Multiple standards Efficiency in %

Regulatory Indicators for Sustainable Energy (RISE)

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?	No
Are the standards based on external/international standards?	No
Other industrial equipment	
Have minimum energy performance standards been adopted?	Yes
Details of standards	Multiple standards and units
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?	No
Are the standards based on external/international standards?	No
Light duty vehicles	
Have minimum energy performance standards been adopted?	Yes
Details of standards	See table 2 & 3; gCO ₂ /km and km/l
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

Regulatory Indicators for Sustainable Energy (RISE)

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

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	

Regulatory Indicators for Sustainable Energy (RISE)

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
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?	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

Regulatory Indicators for Sustainable Energy (RISE)

Building energy codes	Score	36.67
Are there energy efficiency codes for new residential buildings?		Yes
Are there energy efficiency codes for new commercial buildings?		No
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?		Yes
Is there any provision for regular updates to the code for new commercial buildings?		No
EE building code regulations		Housing Building Code 21
When was the code last updated for residential buildings?		2010
When was the code last updated for commercial buildings?		0
Is there a system to ensure compliance with building energy efficiency codes?		Yes
Is it carried out by a third party?		Yes
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

Regulatory Indicators for Sustainable Energy (RISE)

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
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?	Yes
Is the labeling scheme or rating adopted from external standards?	Yes
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	0

Carbon Pricing	Score	73.87
Is there a carbon pricing mechanism in place?		Yes

Regulatory Indicators for Sustainable Energy (RISE)

For any carbon pricing mechanism (e.g. carbon tax, emission trading system), what is the portion of national GHG emissions covered)?	0.47743151072088
Is there a monitoring, reporting and verification system for greenhouse gas emissions in place?	Yes

Renewable Energy

Legal framework for renewable energy	Score	100
Does a legal framework for renewable energy development exist?		Yes
Name of the Law		Law for the Development of Renewable Energy and Financing of Energy Transition.
Is private sector ownership of renewable energy generation legally authorized?		Yes

Planning for renewable energy expansion	Score	73
Does an official renewable energy target exist?		Yes
Overall target		Maximum of 65% of fossil fuels used for the generation of electricity by 2024, 60% by 2035 and 50% by 2050. In addition, the Secretariat on Energy (SENER) has established short-term (2018) technology-specific targets as part of its Special Program for the Development of Renewable Energy (see details in the answer to question 1.4).

Regulatory Indicators for Sustainable Energy (RISE)

Solar target	627.5 MW / 2018
Wind target	8992.0 MW / 2018
Hydro target	13030.17 MW / 2018
Biomass target	784.8 MW/2018
Geothermal target	1018.6 MW / 2018
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?	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

Regulatory Indicators for Sustainable Energy (RISE)

Name of the integration study	0
Year of the integration study	Not applicable
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;	Yes
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?	Yes
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

Regulatory Indicators for Sustainable Energy (RISE)

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;	Yes
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?	Yes
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?	Yes
Does the country publish or endorse a national hydro resource map or atlas?	Yes
Hydro atlas is validated by ground-based water run-off data and/or site surveys from potential sites;	Yes
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?	Yes
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

Regulatory Indicators for Sustainable Energy (RISE)

Does the country have sufficient resource abundance to warrant a biomass resource atlas?	Yes
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
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?	Yes
The government has collected and recorded well data at potential geothermal sites?	Yes
Does the government publish a national geological map?	Yes
The government has supported surface exploration (geological; geochemical; temp; gradient) at potential sites?	Yes
The government has supported test drilling at at least one site (slim bore or full well)?	Yes
The government has supported the creation of a reservoir model at at least one site?	Yes
Has the country carried out strategic geothermal resource planning or produced zoning guidance to inform the commercial development of the resource?	Yes

Regulatory Indicators for Sustainable Energy (RISE)

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

Incentives and regulatory support for renewable energy	Score	88
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
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

Regulatory Indicators for Sustainable Energy (RISE)

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
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	Yes
Auction 1 - Year	2014
Auction 1 - Technology	Hydro
Auction 1 - Project-specific tender and size (MW)	240

Regulatory Indicators for Sustainable Energy (RISE)

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)	6
Auction 1 - Government body in charge	CFE
Auction 2 - Year	2014
Auction 2 - Technology	Geothermal
Auction 2 - Project-specific tender and size (MW)	25
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)	4
Auction 2 - Government body in charge	CFE
Winning bid guaranteed off-take	Yes
Mandates	Yes
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?)	Yes
Investment tax credit	Yes

Regulatory Indicators for Sustainable Energy (RISE)

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?	Yes
Do RE projects receive priority in dispatch?	Yes
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?	Yes

Attributes of financial and regulatory incentives	Score	50
Is the market entry mechanism for private RE projects defined? (e.g. 1st come 1st served; tenders)	Yes	
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)	Yes	

Regulatory Indicators for Sustainable Energy (RISE)

If there is a renewable energy mandate, can it be met with tradable certificates (e.g., RECs, ROCs, TECs)?	No
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	61
Are there rules defining the allocation of connection costs?	Yes	
What is the type of the connection cost allocation policy (i.e. shallow/deep)?	No	
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	
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	CFE_Contrato de interconexión	
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?	Yes	
Are there rules for exchanging power between balancing areas that penalize variable renewable energy (e.g. through imbalance penalties)?	Yes	
Are there provisions in the power exchange rules that allow for plant forecasting?	Yes	

Regulatory Indicators for Sustainable Energy (RISE)

Counterparty risk	Score	56
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
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

Regulatory Indicators for Sustainable Energy (RISE)

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
Is the utility measuring the SAIDI and SAIFI or any other measurements for service reliability?	Yes
Are the data reported to the regulatory body?	No
Are the data available to the public?	Yes
Name of the selected utility	Comisión Federal de Electricidad (CFE)
data - 17.1. Current ratio (working capital ratio)	1
data - 17.2 Debt Service Coverage Ratio	1
data - 17.3 Days payable outstanding	34
data - 17.4 EBITDA margin	0
Current ratio (working capital ratio) of selected utility	9
Debt Service Coverage Ratio of selected utility	25

Regulatory Indicators for Sustainable Energy (RISE)

Days payable outstanding of selected utility	25
EBITDA margin of selected utility	18

Carbon pricing and monitoring	Score	74
Is there a carbon pricing mechanism in place?	Yes	
For any carbon pricing mechanism (e.g. carbon tax, emission trading system), what is the portion of national GHG emissions covered)?	48%	
Is there a monitoring, reporting and verification system for greenhouse gas emissions in place?	Yes	