

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

### Energy Efficiency

Indicator	Score
National energy efficiency planning	91.67
Energy efficiency entities	85.71
Information provided to consumers about electricity usage	75
EE incentives from electricity rate structures	77.78
Incentives & mandates: large consumers	55.56
Incentives & mandates: public sector	75
Incentives & mandates: utilities	62.5
Financing mechanisms for energy efficiency	75
Minimum energy efficiency performance standards	61.11
Energy labeling systems	66.67
Building energy codes	93.33
Carbon Pricing	90.09
<b>Total</b>	<b>75.78</b>

### Renewable Energy

Indicator	Score
Legal framework for renewable energy	100
Planning for renewable energy expansion	66
Incentives and regulatory support for renewable energy	63
Attributes of financial and regulatory incentives	89
Network connection and pricing	58
Counterparty risk	100
Carbon pricing and monitoring	90
<b>Total</b>	<b>80.86</b>

## Regulatory Indicators for Sustainable Energy (RISE)

**Overall Score**

52.21

### 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		France EU National Energy Efficiency Plan
Is there an energy efficiency goal or target at the national level?		Yes
National target details		GES divided by 4 in 2050
Is there a target for the residential sector?		Yes
Target details		reduce of 38% the average consumption of the existing building. Unit KWh/m2
Does the target have a milestone or deadline?		Yes
Is there a commercial services sector target?		No
Target details		0
Does the target have a milestone or deadline?		No
Is there an industrial sector target?		Yes
Target details		Reduce the GES emission. Unit tCO2
Does the target have a milestone or deadline?		No
Is there a power sector target?		Yes

## Regulatory Indicators for Sustainable Energy (RISE)

Target details	Reduce losses in transmission and distribution lines. Unit KWh
Does the target have a milestone or deadline?	Yes

Energy efficiency entities	Score	85.71
Are there governmental and/or independent bodies dedicated to setting EE strategy?	Yes	
Name of entity		MAPPP
Are there governmental and/or independent bodies dedicated to setting EE standards?	Yes	
Name of entity		ISO
Are there governmental and/or independent bodies dedicated to regulating EE activities of energy suppliers?	Yes	
Name of entity		CRE
Are there governmental and/or independent bodies dedicated to regulating EE activities of energy consumers?	Yes	
Name of entity		Ademe
Are there governmental and/or independent bodies dedicated to certifying compliance with equipment EE standards?	Yes	
Name of entity		AFNOR
Are there governmental and/or independent bodies dedicated to certifying compliance with building EE standards?	Yes	
Name of entity		AFNOR

## Regulatory Indicators for Sustainable Energy (RISE)

Are there governmental and/or independent bodies dedicated to selecting and/or approving third party auditors tasked with certifying EE standards?	No
Name of entity	0

<b>Information provided to consumers about electricity usage</b>	<b>Score</b>	<b>75</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	
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	

## Regulatory Indicators for Sustainable Energy (RISE)

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	
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

## Regulatory Indicators for Sustainable Energy (RISE)

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)?	Yes
Do customers have the ability to manage energy usage levels remotely (through apps or other technology mediums that can track real time usage)?	Yes

<b>EE incentives from electricity rate structures</b>	<b>Score</b>	<b>77.78</b>
Residential 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	
Commercial 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	
Industrial customers		

## Regulatory Indicators for Sustainable Energy (RISE)

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)?	Yes
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
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

## Regulatory Indicators for Sustainable Energy (RISE)

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

Incentives & mandates: large consumers	Score	55.56
What is the threshold for classifying large consumers?	> 250 employees, >50 M€ revenues, >43 M€ assets	
Large consumer EE mandate/incentive regulations	Directive Efficacite Energetique	



## Regulatory Indicators for Sustainable Energy (RISE)

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?	Yes
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
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	Green loan
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

## Regulatory Indicators for Sustainable Energy (RISE)

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)	2309733.223

<b>Incentives &amp; mandates: public sector</b>	<b>Score</b>	<b>75</b>
Are there binding energy savings obligations for public buildings?	Yes	
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	
Is there a specific policy or mandated guidelines for public procurement of energy-efficient products and services?	Yes	
Public procurement guidelines for EE	State informations for public collectivities	
Do public budgeting regulations and practices allow public entities to retain energy savings?	No	
Public budgeting regulations for EE	Certificats d'Économies d'Énergie (CEE) : accompagner vos projets d'efficacité énergétique	

<b>Incentives &amp; mandates: utilities</b>	<b>Score</b>	<b>62.5</b>
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## Regulatory Indicators for Sustainable Energy (RISE)

Name of utility energy efficiency regulation program	
Electricity generation	
Are utilities required to carry out energy efficiency activities in this area?	Yes
Details	Reduction CO <sub>2</sub> , NO <sub>x</sub> and SO <sub>x</sub>
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?	Yes
Transmission & distribution	
Are utilities required to carry out energy efficiency activities in this area?	Yes
Details	KWh
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?	Yes

## Regulatory Indicators for Sustainable Energy (RISE)

Details	35 million communicating meters
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?	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?	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

## Regulatory Indicators for Sustainable Energy (RISE)

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
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

## Regulatory Indicators for Sustainable Energy (RISE)

Are there any other financing mechanisms available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?	Penalties if EE goals not achieved
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>75</b>
Residential sector		
Are there tax incentives available for energy efficiency investments?	Yes	
Are there discounted "green" mortgages available for energy efficiency investments?	Yes	
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)

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Details	
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Are these available as government-driven financing mechanisms?	No

## Regulatory Indicators for Sustainable Energy (RISE)

Commercial services sector	
Are there tax incentives available for energy efficiency investments?	No
Are there discounted "green" mortgages available for energy efficiency investments?	Yes
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?	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
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Details	
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Are these available as government-driven financing mechanisms?	No

## Regulatory Indicators for Sustainable Energy (RISE)

Industrial sector	
Are there tax incentives available for energy efficiency investments?	No
Are there discounted "green" mortgages available for energy efficiency investments?	Yes
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?	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
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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	61.11
EE standards regulations		EU Ecodesign requirements
Refrigerators		
Have minimum energy performance standards been adopted?		Yes
Details of standards		A+, kWh
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?		Yes
Air conditioners		
Have minimum energy performance standards been adopted?		Yes
Details of standards		SEER>3,6
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?		Yes
Lighting equipment		
Have minimum energy performance standards been adopted?		Yes

## Regulatory Indicators for Sustainable Energy (RISE)

Details of standards	KWh
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?	Yes
Industrial electric motors	
Have minimum energy performance standards been adopted?	Yes
Details of standards	yield
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?	Yes
Other industrial equipment	
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

## Regulatory Indicators for Sustainable Energy (RISE)

Light duty vehicles	
Have minimum energy performance standards been adopted?	No
Details of standards	CO2
Is there a verification program in place?	Yes
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	CO2
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

<b>Energy labeling systems</b>	<b>Score</b>	<b>66.67</b>
Refrigerators		
Have energy efficiency labeling schemes been adopted?	Yes	
Is the labeling scheme mandatory?	Yes	

## Regulatory Indicators for Sustainable Energy (RISE)

Is the labeling scheme based on external/international standards?	Yes
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?	Yes
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?	Yes
Industrial electric motors	
Have energy efficiency labeling schemes been adopted?	No
Is the labeling scheme mandatory?	No
Is the labeling scheme based on external/international standards?	Yes
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	

## Regulatory Indicators for Sustainable Energy (RISE)

Have energy efficiency labeling schemes been adopted?	Yes
Is the labeling scheme mandatory?	Yes
Is the labeling scheme based on external/international standards?	Yes
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>93.33</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?	Yes	
Is the energy efficiency code for new commercial buildings its own stand-alone, separate code or part of the overall building code?	Yes	
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		France Thermal Regulations 212
When was the code last updated for residential buildings?		2012



## Regulatory Indicators for Sustainable Energy (RISE)

When was the code last updated for commercial buildings?	2012
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 codee?	Yes
Are renovated commercial buildings required to meet a building energy code?	Yes
Is the energy efficiency code for renovated residential buildings different from the code for new buildings?	Yes
Is the energy efficiency code for renovated commercial buildings different from the code for new buildings?	Yes
Is the energy efficiency code for renovated residential buildings its own stand-alone, separate code or part of the overall building code?	Yes
Is the energy efficiency code for renovated commercial buildings its own stand-alone, separate code or part of the overall building code?	Yes
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?	No
Are commercial and residential buildings required to disclose property energy usage at the point of sale or when leased?	Yes

## Regulatory Indicators for Sustainable Energy (RISE)

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)?	Yes
Details	0% rate loan, credit taxes
LEED incentives	No
Local program details	0

<b>Carbon Pricing</b>	<b>Score</b>	<b>90.09</b>
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)?	0.801864883884588	
Is there a monitoring, reporting and verification system for greenhouse gas emissions in place?	Yes	

## Renewable Energy

<b>Legal framework for renewable energy</b>	<b>Score</b>	<b>100</b>
Does a legal framework for renewable energy development exist?	Yes	
Name of the Law	Pdf Grenelle Environnement Sujets	
Is private sector ownership of renewable energy generation legally authorized?	Yes	

## Regulatory Indicators for Sustainable Energy (RISE)

Planning for renewable energy expansion	Score	66
Does an official renewable energy target exist?		Yes
Overall target		The European Union has set itself the goal of meeting 20% of its final energy consumption from renewable sources by 2020. This ambition is reflected in a target of 23 % for France declined by industry: heat (geothermal , biomass, solar , heat pumps , renewable portion of waste) to 33% , electricity 27% and transport 10.5 %.
Solar target		5,4 GW in 2020, 1 GW / year
Wind target		25 GW
Hydro target		28,3 GW
Biomass target		_x000D_3,07 GW
Geothermal target		80 MW
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

## 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?	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	
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;	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?	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?	No
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;	No
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?	Yes
Has the wind resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process?	Yes
Are the wind resource planning or zoning guidance outputs publically available?	Yes
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

## 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?	Yes
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?	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

## Regulatory Indicators for Sustainable Energy (RISE)

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?	No
Has the country carried out strategic geothermal resource planning or produced zoning guidance to inform the commercial development of the resource?	Yes
Has the geothermal resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process?	Yes
Are the geothermal resource planning or zoning guidance outputs publically available?	Yes

<b>Incentives and regulatory support for renewable energy</b>	<b>Score</b>	<b>63</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)?	Yes	
Feed-in tariff	Yes	
Feed-in tariff - Solar	Yes	
Feed-in tariff - Wind	Yes	
Feed-in tariff - Hydro	Yes	
Feed-in tariff - Biomass	Yes	

## Regulatory Indicators for Sustainable Energy (RISE)

Feed-in tariff - Geothermal	Yes
Government body in charge	Minister advised by la CRE (Commission Régulation de l'Energie)
Projects guaranteed off-take	No
Solar Feed-in-tariff Price (\$ cents/kWh)	15
Solar Feed-in-tariff Max. capacity (single)	12 MW
Solar Feed-in-tariff Max. capacity (total)	No max
Solar Feed-in-tariff Closing date	No closing date. 2020 is a target <sup>0</sup>
Wind Feed-in-tariff Price (\$ cents/kWh)	9
Wind Feed-in-tariff Max. capacity (single)	No limitation
Wind Feed-in-tariff Max. capacity (total)	No max
Wind Feed-in-tariff Closing date	No closing date. 2020 is a target
Hydro Feed-in-tariff Price (\$ cents/kWh)	9
Hydro Feed-in-tariff Max. capacity (single)	12 MW
Hydro Feed-in-tariff Max. capacity (total)	2 000 MW
Hydro Feed-in-tariff Closing date	No closing date. 2020 is a target
Biomass Feed-in-tariff Price (\$ cents/kWh)	18
Biomass Feed-in-tariff Max. capacity (single)	12 MW
Biomass Feed-in-tariff Max. capacity (total)	No max



## Regulatory Indicators for Sustainable Energy (RISE)

Biomass Feed-in-tariff Closing date	No closing date. 2020 is a target
Geothermal Feed-in-tariff Price (\$ cents/kWh)	31
Geothermal Feed-in-tariff Max. capacity (single)	12 MW
Geothermal Feed-in-tariff Max. capacity (total)	No max
Geothermal Feed-in-tariff Closing date	No closing date. 2020 is a target
Competitive bidding	Yes
Auction 1 - Year	2013
Auction 1 - Technology	Offshore wind
Auction 1 - Project-specific tender and size (MW)	2 x 500 MW
Auction 1 - Auction for total and size (MW)	2 x 500 MW
Auction 1 - Standard PPA and Term	20 years
Auction 1 - Price ceiling	Yes
Auction 1 - Winning bid (\$ cents/kWh)	around 0,2 €/KWh
Auction 1 - Government body in charge	CRE
Auction 2 - Year	2015
Auction 2 - Technology	Solar Photovoltaic
Auction 2 - Project-specific tender and size (MW)	
Auction 2 - Auction for total and size (MW)	400 MW
Auction 2 - Standard PPA and Term	20 years

## Regulatory Indicators for Sustainable Energy (RISE)

Auction 2 - Price ceiling	Yes
Auction 2 - Winning bid (\$ cents/kWh)	0,13 €/KWh
Auction 2 - Government body in charge	CRE
Winning bid guaranteed off-take	No
Mandates	No
Generation premium	Yes
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	Yes
Accelerated depreciation	Yes
Reduction in import taxes	No
Reduction in sales tax or other taxes	No
Does the country provide prioritized access to the grid for RE?	Yes
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**      **89**

## Regulatory Indicators for Sustainable Energy (RISE)

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)?	No
If there is a guaranteed tariff, is there a mechanism to differentiate tariffs based on the size of the generation plant?	Yes
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
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?	Yes

<b>Network connection and pricing</b>	<b>Score</b>	<b>58</b>
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	
Do the rules define the size and allocation of costs for transmission and distribution wheeling charges? (e.g., wheeling charges, locational pricing?)	Yes	

## Regulatory Indicators for Sustainable Energy (RISE)

Do the rules consider customer type/size in determining eligibility for purchasing electricity from a third party?	Yes
connection cost document	Process to connect electricity generation to the public electrical grid
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

Counterparty risk	Score	100
Does the government offer or allow backing of utility payments (e.g. through a letter of credit, escrow account, payment guarantee, or other)?		Yes
Information disclosure		4
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?		Yes
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

## Regulatory Indicators for Sustainable Energy (RISE)

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)?	No
Is the distribution loss rate published in a primary official document (by the utility, regulator or ministry and/or government)?	No
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	8
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?	Yes
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)?	Yes
Is the utility measuring the SAIDI and SAIFI or any other measurements for service reliability?	Yes

## Regulatory Indicators for Sustainable Energy (RISE)

Are the data reported to the regulatory body?	Yes
Are the data available to the public?	Yes
Name of the selected utility	Electricité Réseau Distribution France (distribution) and EDF (retail)
data - 17.1. Current ratio (working capital ratio)	N/A
data - 17.2 Debt Service Coverage Ratio	N/A
data - 17.3 Days payable outstanding	N/A
data - 17.4 EBITDA margin	N/A
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>90</b>
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?	80%	
Is there a monitoring, reporting and verification system for greenhouse gas emissions in place?	Yes	