

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

Energy Access

Indicator	Score
Existence and monitoring of officially approved electrification plan	0
Scope of officially approved electrification plan	0
Framework for grid electrification	83.33
Framework for minigrids	74.17
Framework for stand-alone systems	73.33
Consumer affordability of electricity	100
Utility Transparency and Monitoring	95.82
Utility Creditworthiness	44.65
Total	58.91

Energy Efficiency

Indicator	Score
National energy efficiency planning	66.67
Energy efficiency entities	100
Information provided to consumers about electricity usage	62.5
EE incentives from electricity rate structures	74.07
Incentives & mandates: large consumers	33.33
Incentives & mandates: public sector	0
Incentives & mandates: utilities	16.67
Financing mechanisms for energy efficiency	0
Minimum energy efficiency performance standards	16.67
Energy labeling systems	25
Building energy codes	66.67
Carbon Pricing	0
Total	38.46

Regulatory Indicators for Sustainable Energy (RISE)

Renewable Energy

Indicator	Score
Legal framework for renewable energy	100
Planning for renewable energy expansion	59
Incentives and regulatory support for renewable energy	100
Attributes of financial and regulatory incentives	100
Network connection and pricing	100
Counterparty risk	80
Carbon pricing and monitoring	0
Total	77

Overall Score	58.12
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Energy Access

Existence and monitoring of officially approved electrification plan	Score	0
Is there an officially approved national electrification plan?		No
If not, is there a draft electrification plan that has been prepared but not yet been approved?		No
Name of the electrification plan		0
Are the electrification plan and the updates publicly available?		No
When was the last update of the electrification plan?		0
Is there an institution responsible for tracking progress of the plan?		No
Name of the tracking institution		0

Regulatory Indicators for Sustainable Energy (RISE)

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

Framework for grid electrification	Score	83.33
Does the government have a dedicated funding line or budget for electrification (e.g., funded national program, budget item, rural electrification fund to finance grid extension)?		Yes
Are there capital subsidies paid to the utilities to provide distribution systems to rural areas/villages?		No
Details on funding support for grid electrification		N/A
Are there consumer financing mechanisms (i.e., utility loans, on bill financing, micro-loans, etc.) and/or direct subsidies available to support the payment of connection fees by consumers?		Yes
Details on mechanisms to support the payment of connection fees		Payment in two steps: 1. Rs 300 at the time of connection, 2. Rs 2,700 in

Regulatory Indicators for Sustainable Energy (RISE)

	nine equal installment of Rs 300 in each subsequent bill
Does the government specify standards of performance on reliability along with new connections (e.g., number of guaranteed hours per day, etc.)?	Yes

Framework for minigrids	Score	74.17
Are minigrids legally allowed to operate in the country?		Yes
Name and date of the regulation for minigrids		Policy for Development of Renewable Energy for Power Generation - 2006
Can minigrids be owned and operated by private operators?		Yes
Do regulations clarify what will occur when the interconnected grid reaches a mini-grid?		Yes
To convert from a power producer to a power distributor that buys electricity from the interconnected grid and resells to its local customers		Yes
To sell electricity to the interconnected grid operator and no longer sell electricity to retail customers		Yes
To sell its distribution grid to the interconnected grid operator and receive compensation for the sale of the asset		Yes
Other		No
Do the regulations detail procedures for consumers to get connected to minigrids?		No
Do the regulations differ by size of minigrids?		Yes
Are mini-grid operators legally allowed to charge a different tariff from the national tariff?		Yes

Regulatory Indicators for Sustainable Energy (RISE)

Is there a retail electricity tariff schedule for minigrids?	No
Examples of minigrid tariffs	The Aga Khan Rural Support Programme developed about 200 mini-grid projects and each one of the project has its own traffic schedule which is dependent upon project cost.
Name of the regulation on minigrid tariffs	Notification SRO 892 -2015-3 NEPRA (Alternative & Renewable Energy) Distributed Generation and Net Metering Regulations, 2015
Are there publicly funded mechanisms to secure viability gap funding for operators?	No
Do subsidies exist for minigrids?	No
Details on subsidies for minigrids	Capital subsidy to off-grid small hydro projects (AEDB Renewable Energy Policy)
Name of the document referring to minigrid subsidies	Renewable Energy Policy - 2006
Do subsidies exist for power generators?	Yes
Do subsidies exist for energy storage systems?	No
Do subsidies exist for distribution systems?	No
Do subsidies exist for monitoring systems?	No
Do subsidies exist for other equipment related to minigrids?	No

Regulatory Indicators for Sustainable Energy (RISE)

Do duty exemptions exist for minigrid systems?	No
Details on duty exemptions for minigrids	Generators for wind turbines and solar dish sterling engine exempted from custom duty
Name of the document referring to mini-grid duty exemptions	EA.23 5th Schedule and Customs Tariff
Do duty exemptions exist for power generators?	Yes
Do duty exemptions exist for energy storage systems?	Yes
Do duty exemptions exist for distribution systems?	No
Do duty exemptions exist for monitoring systems?	No
Do duty exemptions exist for other equipment related to minigrids?	No
Do subsidies exist for stand-alone systems?	No
Do subsidies exist for solar modules?	No
Do subsidies exist for batteries?	No
Do subsidies exist for charge controllers?	No
Do subsidies exist for power conditioning equipment?	No
Do subsidies exist for safety equipment?	No
Do subsidies exist for other equipment related to stand-alone systems?	No
Details on subsidies for stand-alone systems	0
Name of the document referring to subsidies for stand-alone systems	0

Regulatory Indicators for Sustainable Energy (RISE)

Do duty exemptions exist for stand-alone systems?	No
Details on duty exemptions for stand-alone systems	Duty exemptions for stand-alone systems imported into the country
Name of the document referring to duty exemptions for stand-alone systems	5th Schedule and Customs Tariff
Do duty exemptions exist for solar modules?	Yes
Do duty exemptions exist for batteries?	Yes
Do duty exemptions exist for charge controllers?	No
Do duty exemptions exist for power conditioning equipment?	No
Do duty exemptions exist for safety equipment?	No
Do duty exemptions exist for other equipment related to stand-alone systems?	No
Are there legal restrictions that limit the prices standalone home system retailers or service providers can charge?	No
Are there specific financing facilities available to support operators/consumers to develop/purchase stand-alone home systems?	Yes
Are there specific market financing facilities available to support operators to develop stand-alone systems?	No
Are there specific government financing facilities available to support operators to develop stand-alone systems?	No
Are there specific market financing facilities available to support consumers to purchase stand-alone standalone systems?	Yes
Are there specific government financing facilities available to support consumers to purchase stand-alone standalone systems?	No

Regulatory Indicators for Sustainable Energy (RISE)

Are there technical standards detailing the requirements for minigrids to connect the grid?	Yes
Are technical standards made publicly available?	Yes
Name of the document detailing technical standards	Notification SRO 892 -2015-3 NEPRA (Alternative & Renewable Energy) Distributed Generation and Net Metering Regulations, 2015 Distribution Code 2005 Grid Code 2005
Are there safety standards for minigrids?	Yes
Are these safety standards made publicly available?	Yes
Name of the document detailing safety standards	Notification SRO 892 -2015-3 NEPRA (Alternative & Renewable Energy) Distributed Generation and Net Metering Regulations, 2015
Does the government implement certification programs for minigrid installers?	No
Does the government provide or endorse certification programs for one or more components or equipment required for minigrids?	No
Has the government adopted international quality standards for stand-alone systems?	No
Name of the document detailing quality standards	0
Has the government adopted international testing methods?	No
Does the regulation accept testing done elsewhere/in another country (vs in-country testing required)?	Yes

Regulatory Indicators for Sustainable Energy (RISE)

Is there a governmental certified program for solar equipment installers?	No
Are there environmental regulations on the disposal of solar devices and standalone home system products or components?	No
Name of document detailing environmental regulations	0

Framework for stand-alone systems	Score	73.33
Are there publicly funded mechanisms to secure viability gap funding for operators?	No	
Do subsidies exist for minigrids?	No	
Details on subsidies for minigrids	Capital subsidy to off-grid small hydro projects (AEDB Renewable Energy Policy)	
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Do subsidies exist for power generators?	Yes	
Do subsidies exist for energy storage systems?	No	
Do subsidies exist for distribution systems?	No	
Do subsidies exist for monitoring systems?	No	
Do subsidies exist for other equipment related to minigrids?	No	
Do duty exemptions exist for minigrid systems?	No	
Details on duty exemptions for minigrids	Generators for wind turbines and solar dish sterling engine exempted from custom duty	

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Do subsidies exist for batteries?	No
Do subsidies exist for charge controllers?	No
Do subsidies exist for power conditioning equipment?	No
Do subsidies exist for safety equipment?	No
Do subsidies exist for other equipment related to stand-alone systems?	No
Details on subsidies for stand-alone systems	0
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Regulatory Indicators for Sustainable Energy (RISE)

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Are there specific market financing facilities available to support operators to develop stand-alone systems?	No
Are there specific government financing facilities available to support operators to develop stand-alone systems?	No
Are there specific market financing facilities available to support consumers to purchase stand-alone standalone systems?	Yes
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Are technical standards made publicly available?	Yes
Name of the document detailing technical standards	Notification SRO 892 -2015-3 NEPRA

Regulatory Indicators for Sustainable Energy (RISE)

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Does the regulation accept testing done elsewhere/in another country (vs in-country testing required)?	Yes
Is there a governmental certified program for solar equipment installers?	No
Are there environmental regulations on the disposal of solar devices and standalone home system products or components?	No
Name of document detailing environmental regulations	0

Regulatory Indicators for Sustainable Energy (RISE)

Are there national programs which aim to develop stand-alone systems or support the development of stand-alone systems?	Yes
Details on the national program promoting stand-alone systems	Roshan Pakistan Program and Parliamentarian Schemes for Rural Electrification: more than 8,000 villages to be electrified through renewable energy technologies. Other similar initiatives include solar street lighting, commercial lighting for billboards are also being looked into. All these initiatives are handled by Alternative Energy Development Board.

Consumer affordability of electricity	Score	100
What is the annual cost of subsistence consumption (30kWh/month) as a percentage of GNI per household of bottom 20 percent of population?		0.152605592834401%
Tariff schedule / tariff structure taken into account		Official Gazette Government of Pakistan, July 2015
Is there a mechanism to support low-volume consumers such as cross-subsidization, social or lifeline tariff?		Yes

Utility Transparency and Monitoring	Score	95.82
Are the financial statements of the largest generation company publicly available?		Yes
Are the financial statements of the largest transmission company publicly available?		No

Regulatory Indicators for Sustainable Energy (RISE)

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 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
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
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 measurements reported to the regulatory body?	Yes
Are the measurements available to public?	Yes

Regulatory Indicators for Sustainable Energy (RISE)

Utility Creditworthiness	Score	44.65
Current ratio (working capital ratio) of selected utility		0
EBITDA margin of selected utility		19.645
Debt service coverage ratio of selected utility		25
Days payable outstanding of selected utility		0

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		Energy of 11th Five Year Plan (213 -18)
Is there an energy efficiency goal or target at the national level?		Yes
Natonal target details		1,000 MW by 2018
Is there a target for the residential sector?		No
Target details		No defined target for this sector yet.
Does the target have a milestone or deadline?		No
Is there a commercial servcies sector target?		No
Target details		No defined target for this sector yet.
Does the target have a milestone or deadline?		No
Is there an industrial sector target?		No

Regulatory Indicators for Sustainable Energy (RISE)

Target details	No defined target for this sector yet.
Does the target have a milestone or deadline?	No
Is there a power sector target?	No
Target details	No defined target for this sector yet.
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	ENERCON/NEECA	
Are there governmental and/or independent bodies dedicated to setting EE standards?	Yes	
Name of entity	Pakistan Energy Efficiency and Conservation Act 2015	
Are there governmental and/or independent bodies dedicated to regulating EE activities of energy suppliers?	Yes	
Name of entity	ENERCON/NEECA	
Are there governmental and/or independent bodies dedicated to regulating EE activities of energy consumers?	Yes	
Name of entity	ENERCON/NEECA	
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	ENERCON/NEECA
Are there governmental and/or independent bodies dedicated to certifying compliance with building EE standards?	Yes
Name of entity	ENERCON/NEECA and Municipalities
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	ENERCON/NEECA

Information provided to consumers about electricity usage	Score	62.5
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	

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?	Yes
Commercial customers	
Do customers receive a bill or report that shows their energy usage compared to previous bills or reports over time?	Yes
Industrial customers	
Do customers receive a bill or report that shows their energy usage compared to previous bills or reports over time?	Yes
All customers	
Can customers access real time feedback on energy usage (for either prepaid or post-paid systems)?	No
Do customers have the ability to manage energy usage levels remotely (through apps or other technology mediums that can track real time usage?	No

EE incentives from electricity rate structures	Score	74.07
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?	No
Are customers charged declining block rates?	Yes
Are customers charged increasing block rates?	No
Industrial customers	
Are customers charged a flat fee (per connection)?	Yes
Are customers charged constant block rates?	No
Are customers charged declining block rates?	Yes
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)?	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)?	Yes
Do customers pay reactive power charges (per kVAR)?	Yes

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?	Yes
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?	Yes
Commercial customers	
Are customers charged based on real-time pricing?	No
Are customers charged based on variable peak pricing?	Yes
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?	Yes
Industrial customers	
Are customers charged based on real-time pricing?	No
Are customers charged based on variable peak pricing?	Yes
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?	Yes

Regulatory Indicators for Sustainable Energy (RISE)

Incentives & mandates: large consumers	Score	33.33
What is the threshold for classifying large consumers?		Large users are defined as kWh/year.
Large consumer EE mandate/incentive regulations		
Is it required for the consumption and/or savings of large-scale energy users to be tracked and documented on a regular basis?		No
Are efficiency targets mandated for large consumers?		No
Details		At present there are no targets for large scale users. In the proposed Act, there are penalties for non-compliance with regulatory obligations.
Are energy audits mandated for large consumers?		No
Are energy efficiency progress reports mandated for large consumers?		No
Interval of reports		Not applicable
Are energy-management systems mandated for large consumers?		No
Details		Not applicable
Are there penalties in place for non-compliance with regulatory obligations for large consumers?		Yes
Is there a measurement and verification program in place?		No
Is verification done by a third party?		No
Are there financial incentives for large consumers to invest in energy efficiency?		No
Details		Not applicable - No

Regulatory Indicators for Sustainable Energy (RISE)

	incentives given to large scale users
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	Not applicable
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)	3590522.27

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	

Regulatory Indicators for Sustainable Energy (RISE)

Public procurement guidelines for EE	Energy Efficiency and Conservation Act 215
Do public budgeting regulations and practices allow public entities to retain energy savings?	No
Public budgeting regulations for EE	Energy Efficiency and Conservation Act 215

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?	Yes	
Details	K-Electric has set 18% (486 MW in 215) reduction - no specific target for generation. Focus areas are waste heat recovery and auxiliary consumption. The targets are set in MW.	
Are energy savings or other target indicators measured to track performance in meeting EE requirements?	No	
Are the requirements measured/validated by an independent third party?	No	
Are there penalties in place for non-compliance with EE requirements?	No	
Are there mandates or incentives for new and/or brownfield co-generation?	No	

Regulatory Indicators for Sustainable Energy (RISE)

Transmission & distribution	
Are utilities required to carry out energy efficiency activities in this area?	Yes
Details	K-Electric has set 18% (486 MW in 215) reduction - no specific target for T&D. Focus areas are reducing T&D losses as well as curtailing reactive power (power factor improvement)t
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?	No
Are there penalties in place for non-compliance with EE requirements?	No
Demand-side management -	
Are utilities required to carry out energy efficiency activities in this area?	Yes
Details	K-Electric has set 18% (486 MW in 2015) reduction - no specific target for demand-side management. Emphasis is on advisory service for load reduction
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

Regulatory Indicators for Sustainable Energy (RISE)

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?	No
Is there public budget funding available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?	No
Is there compensation for revenue losses via a tracking account available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?	No
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	No
Are these available as government-driven financing mechanisms?	No
Are there credit lines available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?	No
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	No
Are these available as government-driven financing mechanisms?	No
Are there partial risk guarantees available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities?	No
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	No

Regulatory Indicators for Sustainable Energy (RISE)

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 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

Regulatory Indicators for Sustainable Energy (RISE)

Are these available as government-driven financing mechanisms?	No
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Financing mechanisms for energy efficiency	Score
Residential sector	0
Are there tax incentives available for energy efficiency investments?	No
Are there discounted "green" mortgages available for energy efficiency investments?	No
Is on-bill financing/re-payment available for energy efficiency investments?	No
Are credit lines available for energy efficiency investments?	No
Are energy services agreements or ESCOs available for energy efficiency investments?	No
Are green bonds available for energy efficiency investments?	No
Is vendor credit and/or leasing available for energy efficiency investments?	No
Are partial risk guarantees available for energy efficiency investments?	No
Are there any other financing mechanisms available for energy efficiency investments?	No
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	No
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Details	
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Commercial services sector	
Are there tax incentives available for energy efficiency investments?	No

Regulatory Indicators for Sustainable Energy (RISE)

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Are these available as government-driven financing mechanisms?	No
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	No
Are these available as government-driven financing mechanisms?	No
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	No
Are these available as government-driven financing mechanisms?	No
Details	
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	No
Are these available as government-driven financing mechanisms?	No
Industrial sector	
Are there tax incentives available for energy efficiency investments?	No

Regulatory Indicators for Sustainable Energy (RISE)

Are there discounted "green" mortgages available for energy efficiency investments?	No
Is on-bill financing/re-payment available for energy efficiency investments?	No
Are credit lines available for energy efficiency investments?	No
Are energy services agreements or ESCOs available for energy efficiency investments?	No
Are green bonds available for energy efficiency investments?	No
Is vendor credit and/or leasing available for energy efficiency investments?	No
Are partial risk guarantees available for energy efficiency investments?	No
Are there any other financing mechanisms available for energy efficiency investments?	No
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	No
Are these available as government-driven financing mechanisms?	No
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	No
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Regulatory Indicators for Sustainable Energy (RISE)

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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

Minimum energy efficiency performance standards	Score	16.67
EE standards regulations		ENERCON

Regulatory Indicators for Sustainable Energy (RISE)

	Policy/Guidelines for Implementation of ES&L Scheme in Pakistan
Refrigerators	
Have minimum energy performance standards been adopted?	No
Details of standards	There are no mandatory energy efficiency standards for refrigerators
Is there a verification program in place?	No
Is it carried out by a third party?	No
Is there a penalty for non-compliance with energy efficiency standards?	No
Are the standards based on external/international standards?	No
Air conditioners	
Have minimum energy performance standards been adopted?	No
Details of standards	AC standards measure Energy Efficiency Ratio (EER) and Cooling Capacity (CC) in BTU. Standards vary by type of air conditioning - EER is 2.9 for window AC and ranges between 3 to 3.20 for split ACs.
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

Regulatory Indicators for Sustainable Energy (RISE)

Are the standards based on external/international standards?	Yes
Lighting equipment	
Have minimum energy performance standards been adopted?	No
Details of standards	The minimum standards are measured in lumens/watt (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?	No
Are the standards based on external/international standards?	Yes
Industrial electric motors	
Have minimum energy performance standards been adopted?	No
Details of standards	The standards vary according to rated power (kW) and rpm
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

Regulatory Indicators for Sustainable Energy (RISE)

Details of standards	Not applicable
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	There are no mandatory energy efficiency standards for light duty vehicles
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	There are no mandatory energy efficiency standards for heavy duty vehicles
Is there a verification program in place?	No
Is it carried out by a third party?	No

Regulatory Indicators for Sustainable Energy (RISE)

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

Energy labeling systems	Score	25
Refrigerators		
Have energy efficiency labeling schemes been adopted?	No	
Is the labeling scheme mandatory?	No	
Is the labeling scheme based on external/international standards?	No	
Air conditioners		
Have energy efficiency labeling schemes been adopted?	Yes	
Is the labeling scheme mandatory?	No	
Is the labeling scheme based on external/international standards?	No	
Lighting equipment		
Have energy efficiency labeling schemes been adopted?	Yes	
Is the labeling scheme mandatory?	No	
Is the labeling scheme based on external/international standards?	No	
Industrial electric motors		
Have energy efficiency labeling schemes been adopted?	Yes	

Regulatory Indicators for Sustainable Energy (RISE)

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

Building energy codes	Score	66.67
Are there energy efficiency codes for new residential buildings?	Yes	
Are there energy efficiency codes for new commercial buildings?	Yes	

Regulatory Indicators for Sustainable Energy (RISE)

Is the energy efficiency code for new residential buildings its own stand-alone, separate code or part of the overall building code?	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?	Yes
Is there any provision for regular updates to the code for new commercial buildings?	Yes
EE building code regulations	EE.9 SRO 249 (I)-213, Clause 1 Application of Building of Pakistan (Energy Provisions 211)
When was the code last updated for residential buildings?	0
When was the code last updated for commercial buildings?	0
Is there a system to ensure compliance with building energy efficiency codes?	Yes
Is it carried out by a third party?	Yes
Are renovated residential buildings required to meet a building energy code?	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?	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?	Yes

Regulatory Indicators for Sustainable Energy (RISE)

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?	Yes
Is there any provision for regular updates to the code for renovated commercial buildings?	Yes
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	0
LEED incentives	No
Local program details	0

Carbon Pricing	Score	0
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	

Regulatory Indicators for Sustainable Energy (RISE)

Is there a monitoring, reporting and verification system for greenhouse gas emissions in place?	No
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Renewable Energy

Legal framework for renewable energy	Score	100
Does a legal framework for renewable energy development exist?		Yes
Name of the Law		Alternative Energy Development Board Act 2010
Is private sector ownership of renewable energy generation legally authorized?		Yes

Planning for renewable energy expansion	Score	59
Does an official renewable energy target exist?		Yes
Overall target		Public Document - Policy for Development of Renewable Energy 2006
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	USAID study is in progress
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

Regulatory Indicators for Sustainable Energy (RISE)

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
Has the solar resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process?	No
Are the solar resource planning or zoning guidance outputs publically available?	No
Does the country have sufficient resource abundance to warrant a wind resource atlas?	Yes
Does the government publish or endorse a wind resource atlas or other data on the abundance and quality of the resource?	Yes
Wind atlas is validated by at least 5 ground-based measurements taken for a period of at least a year;	No
Wind atlas has a spatial resolution of 5km or less;	Yes
Wind atlas is based on modeling inputs covering at least a 10 year period;	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?	Yes
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?	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
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

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

Incentives and regulatory support for renewable energy	Score	100
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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	Yes
Feed-in tariff - Solar	Yes
Feed-in tariff - Wind	Yes
Feed-in tariff - Hydro	Yes
Feed-in tariff - Biomass	Yes
Feed-in tariff - Geothermal	No
Government body in charge	National Electric Power Regulatory Authority (NEPRA)
Projects guaranteed off-take	Yes
Solar Feed-in-tariff Price (\$ cents/kWh)	14
Solar Feed-in-tariff Max. capacity (single)	The maximum single project size is 100 MW
Solar Feed-in-tariff Max. capacity (total)	This is not stated in upfront tariff or renewable policy.
Solar Feed-in-tariff Closing date	The last date to apply for upfront tariff (mentioned above) is 31 December 2015.
Wind Feed-in-tariff Price (\$ cents/kWh)	10
Wind Feed-in-tariff Max. capacity (single)	Maximum project size is 250 MW
Wind Feed-in-tariff Max. capacity (total)	This is not stated in upfront tariff or renewable policy.

Regulatory Indicators for Sustainable Energy (RISE)

Wind Feed-in-tariff Closing date	180 days from the notification date, i.e., from 19 October 2015
Hydro Feed-in-tariff Price (\$ cents/kWh)	8
Hydro Feed-in-tariff Max. capacity (single)	Upto 25 MW
Hydro Feed-in-tariff Max. capacity (total)	This is not stated in upfront tariff or renewable policy.
Hydro Feed-in-tariff Closing date	No date announced as yet
Biomass Feed-in-tariff Price (\$ cents/kWh)	11
Biomass Feed-in-tariff Max. capacity (single)	There is no maximum single project size.
Biomass Feed-in-tariff Max. capacity (total)	There is no specific cap or targeted capacity under the policy.
Biomass Feed-in-tariff Closing date	No date announced as yet
Geothermal Feed-in-tariff Price (\$ cents/kWh)	
Geothermal Feed-in-tariff Max. capacity (single)	
Geothermal Feed-in-tariff Max. capacity (total)	
Geothermal Feed-in-tariff Closing date	
Competitive bidding	Yes
Auction 1 - Year	Not applicable
Auction 1 - Technology	Not applicable

Regulatory Indicators for Sustainable Energy (RISE)

Auction 1 - Project-specific tender and size (MW)	Not applicable
Auction 1 - Auction for total and size (MW)	Not applicable
Auction 1 - Standard PPA and Term	Not applicable
Auction 1 - Price ceiling	No
Auction 1 - Winning bid (\$ cents/kWh)	Not applicable
Auction 1 - Government body in charge	Not applicable
Auction 2 - Year	Not applicable
Auction 2 - Technology	Not applicable
Auction 2 - Project-specific tender and size (MW)	Not applicable
Auction 2 - Auction for total and size (MW)	Not applicable
Auction 2 - Standard PPA and Term	Not applicable
Auction 2 - Price ceiling	No
Auction 2 - Winning bid (\$ cents/kWh)	Not applicable
Auction 2 - Government body in charge	Not applicable
Winning bid guaranteed off-take	Yes
Mandates	No
Generation premium	No
Production tax credit	No
Does the government offer other direct fiscal incentives for renewable energy (e.g. capital subsidies, grants or rebates, investment tax credits, tax reductions?)	Yes

Regulatory Indicators for Sustainable Energy (RISE)

Investment tax credit	No
Accelerated depreciation	No
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?	Yes
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	100
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)?	Yes	
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)		N/A

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)?	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

Network connection and pricing	Score	100
Are there rules defining the allocation of connection costs?	Yes	
What is the type of the connection cost allocation policy (i.e. shallow/deep)?	Super Shallow	
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	0	
Does the country have a grid code that includes measures or standards addressing variable renewable energy?	Yes	
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	

Regulatory Indicators for Sustainable Energy (RISE)

Counterparty risk	Score	80
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		29
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?		No
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?	Yes
Are the data available to the public?	Yes
Name of the selected utility	Karachi Electric Supply Company Limited
data - 17.1. Current ratio (working capital ratio)	1
data - 17.2 Debt Service Coverage Ratio	2
data - 17.3 Days payable outstanding	233
data - 17.4 EBITDA margin	0
Current ratio (working capital ratio) of selected utility	0
Debt Service Coverage Ratio of selected utility	25

Regulatory Indicators for Sustainable Energy (RISE)

Days payable outstanding of selected utility	0
EBITDA margin of selected utility	20

Carbon pricing and monitoring	Score	0
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	