

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

Energy Access

Indicator	Score
Existence and monitoring of officially approved electrification plan	100
Scope of officially approved electrification plan	37.5
Framework for grid electrification	100
Framework for minigrids	10
Framework for stand-alone systems	75.56
Consumer affordability of electricity	100
Utility Transparency and Monitoring	95.82
Utility Creditworthiness	51.25
Total	71.27

Energy Efficiency

Indicator	Score
National energy efficiency planning	100
Energy efficiency entities	100
Information provided to consumers about electricity usage	29.17
EE incentives from electricity rate structures	90.74
Incentives & mandates: large consumers	72.22
Incentives & mandates: public sector	50
Incentives & mandates: utilities	87.5
Financing mechanisms for energy efficiency	100
Minimum energy efficiency performance standards	47.22
Energy labeling systems	66.67
Building energy codes	86.67
Carbon Pricing	0
Total	69.18

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Renewable Energy

Indicator	Score
Legal framework for renewable energy	100
Planning for renewable energy expansion	74
Incentives and regulatory support for renewable energy	100
Attributes of financial and regulatory incentives	56
Network connection and pricing	100
Counterparty risk	49
Carbon pricing and monitoring	0
Total	68.43
Overall Score	69.63

Energy Access

Existence and monitoring of officially approved electrification plan	Score	100
Is there an officially approved national electrification plan?		Yes
If not, is there a draft electrification plan that has been prepared but not yet been approved?		No
Name of the electrification plan		New Household Electrification Strategy (NHES), replacing the Integrated National Electrification Programme (INEP)
Are the electrification plan and the updates publicly available?		Yes
When was the last update of the electrification plan?		2013
Is there an institution responsible for tracking progress of the plan?		Yes

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Name of the tracking institution	Department of Energy (DoE)
Is there a timeframe defined in the electrification plan?	Yes

Scope of officially approved electrification plan	Score	37.5
Does the plan target a service level (e.g., power availability, number of guaranteed hours of power supply, etc.)?		No
Details on service level target		0
Does the electrification plan include both grid and off-grid?		Yes
Does the plan include community facilities?		Yes
Does the plan include productive use?		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	100
Does the government have a dedicated funding line or budget for electrification (e.g., funded national program, budget item, rural electrification fund to finance grid extension)?		Yes
Are there capital subsidies paid to the utilities to provide distribution systems to rural areas/villages?		Yes
Details on funding support for grid electrification		Suite of Supply Policy Guidelines for the Integrated National Electrification Programme (2012/13)

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

Framework for minigrids	Score	10
Are minigrids legally allowed to operate in the country?	Yes	
Name and date of the regulation for minigrids	Electricity Regulation Act - 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?	No	
To convert from a power producer to a power distributor that buys electricity from the interconnected grid and resells to its local customers	No	
To sell electricity to the interconnected grid operator and no longer sell electricity to retail customers	No	
To sell its distribution grid to the interconnected grid operator and receive compensation for the sale of the asset	No	
Other	No	
Do the regulations detail procedures for consumers to get connected to minigrids?	No	
Do the regulations differ by size of minigrids?	No	

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

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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?	Yes
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?	Yes
Details on subsidies for stand-alone systems	Subsidises upto 80% of capital costs for stand-alone systems' installation. Service currently limited to lighting and media access (power for charging mobile phone batteries, radio and a monochrome or a 12V colour television). Non-grid service offered on a fee-for-service basis, requiring customers to contribute a once-off connection fee towards the installation, followed by a small monthly payment thereafter
Name of the document referring to subsidies for stand-alone systems	Non-Grid Household Electrification Policy Guidelines - 2010

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Do duty exemptions exist for stand-alone systems?	No
Details on duty exemptions for stand-alone systems	For solar PV cells, fuel cells, supercapacitors and batteries
Name of the document referring to duty exemptions for stand-alone systems	Customs and exercise tariff schedule (09/25/2015)
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?	Yes
Are there legal restrictions that limit the prices standalone home system retailers or service providers can charge?	No
Are there specific financing facilities available to support operators/consumers to develop/purchase stand-alone home systems?	No
Are there specific market financing facilities available to support operators to develop stand-alone systems?	No
Are there specific government financing facilities available to support operators to develop stand-alone systems?	No
Are there specific market financing facilities available to support consumers to purchase stand-alone standalone systems?	No
Are there specific government financing facilities available to support consumers to purchase stand-alone standalone systems?	No

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Are there technical standards detailing the requirements for minigrids to connect the grid?	No
Are technical standards made publicly available?	No
Name of the document detailing technical standards	0
Are there safety standards for minigrids?	No
Are these safety standards made publicly available?	No
Name of the document detailing safety standards	0
Does the government implement certification programs for minigrid installers?	No
Does the government provide or endorse certification programs for one or more components or equipment required for minigrids?	No
Has the government adopted international quality standards for stand-alone systems?	Yes
Name of the document detailing quality standards	NRS 052-2-1 - 2012
Has the government adopted international testing methods?	Yes
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

Framework for stand-alone systems

Score

75.56

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Are there publicly funded mechanisms to secure viability gap funding for operators?	No
Do subsidies exist for minigrids?	No
Details on subsidies for minigrids	0
Name of the document referring to minigrid subsidies	0
Do subsidies exist for power generators?	No
Do subsidies exist for energy storage systems?	No
Do subsidies exist for distribution systems?	No
Do subsidies exist for monitoring systems?	No
Do subsidies exist for other equipment related to minigrids?	No
Do duty exemptions exist for minigrid systems?	No
Details on duty exemptions for minigrids	0
Name of the document referring to mini-grid duty exemptions	0
Do duty exemptions exist for power generators?	No
Do duty exemptions exist for energy storage systems?	No
Do duty exemptions exist for distribution systems?	No
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?	Yes
Do subsidies exist for solar modules?	No

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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?	Yes
Details on subsidies for stand-alone systems	Subsidises upto 80% of capital costs for stand-alone systems' installation. Service currently limited to lighting and media access (power for charging mobile phone batteries, radio and a monochrome or a 12V colour television). Non-grid service offered on a fee-for-service basis, requiring customers to contribute a once-off connection fee towards the installation, followed by a small monthly payment thereafter
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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?	Yes
Are there legal restrictions that limit the prices standalone home system retailers or service providers can charge?	No
Are there specific financing facilities available to support operators/consumers to develop/purchase stand-alone home systems?	No
Are there specific market financing facilities available to support operators to develop stand-alone systems?	No
Are there specific government financing facilities available to support operators to develop stand-alone systems?	No
Are there specific market financing facilities available to support consumers to purchase stand-alone standalone systems?	No
Are there specific government financing facilities available to support consumers to purchase stand-alone standalone systems?	No
Are there technical standards detailing the requirements for minigrids to connect the grid?	No
Are technical standards made publicly available?	No
Name of the document detailing technical standards	0
Are there safety standards for minigrids?	No

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Are these safety standards made publicly available?	No
Name of the document detailing safety standards	0
Does the government implement certification programs for minigrid installers?	No
Does the government provide or endorse certification programs for one or more components or equipment required for minigrids?	No
Has the government adopted international quality standards for stand-alone systems?	Yes
Name of the document detailing quality standards	NRS 052-2-1 - 2012
Has the government adopted international testing methods?	Yes
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
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	Non-grid electrification programme (including SHS) designed to temporarily give deep rural communities access to electricity until the grid will come

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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?		0.986158599974868%
Tariff schedule / tariff structure taken into account		Tariffs & Charges report, Eskom, 2015/16
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?		Yes
Are the financial statements of the largest distribution company publicly available?		Yes
Are the financial statements of the largest retail electricity sales company publicly available?		Yes
Are the 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

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Is the distribution loss rate published in a primary official document (by the utility, regulator or ministry and/or government)?	Yes
Is the bill collection rate published in a primary official document (by the utility, regulator or ministry and/or government)?	No
Is the amount of electricity available for sale to end-users published in a primary official document (by the utility, regulator or ministry and/or government)?	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

Utility Creditworthiness	Score	51.25
Current ratio (working capital ratio) of selected utility	0	
EBITDA margin of selected utility	21.43	
Debt service coverage ratio of selected utility	25	
Days payable outstanding of selected utility	4.8219259259	

Energy Efficiency

National energy efficiency planning	Score	100
Is there legislation or a national action plan that aims to increase EE?	Yes	

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Name of EE legislation or action plan	28-Review of National Energy Efficiency Strategy
Is there an energy efficiency goal or target at the national level?	Yes
Natonal target details	12% reduction of final energy demand by 2015 in PJ compared to year 2000 baseline scenario. All sectors below have a target for 2015.
Is there a target for the residential sector?	Yes
Target details	10% reduction final energy demand in PJ by 2015
Does the target have a milestone or deadline?	Yes
Is there a commercial servcies sector target?	Yes
Target details	20% reduction final energy demand in PJ by 2015
Does the target have a milestone or deadline?	Yes
Is there an industrial sector target?	Yes
Target details	15% reduction final energy demand in PJ by 2015
Does the target have a milestone or deadline?	Yes
Is there a power sector target?	Yes
Target details	15% reduction in "parasitic" electricity usage by 2015

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Does the target have a milestone or deadline?	Yes
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Energy efficiency entities	Score	100
Are there governmental and/or independent bodies dedicated to setting EE strategy?	Yes	
Name of entity	Department of Energy (DoE), South African national Energy Development Institute (SANEDI)	
Are there governmental and/or independent bodies dedicated to setting EE standards?	Yes	
Name of entity	DoE, South African Bureau of Standards (SABS), Department of Trade and Industry (DTI), Department of Science and Technology (DST)	
Are there governmental and/or independent bodies dedicated to regulating EE activities of energy suppliers?	Yes	
Name of entity	national Energy Regulator of South Africa(NERSA)	
Are there governmental and/or independent bodies dedicated to regulating EE activities of energy consumers?	Yes	
Name of entity	Mix of entities (mainly NERSA)	
Are there governmental and/or independent bodies dedicated to certifying compliance with equipment EE standards?	Yes	
Name of entity	SABS, national Regulator for Compulsory Specifications(NRCS)	

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Are there governmental and/or independent bodies dedicated to certifying compliance with building EE standards?	Yes
Name of entity	SABS, Construction Industry Development Board (CIDB)
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	SABS, South African national Accreditation System (SanaS)

Information provided to consumers about electricity usage	Score	29.17
Residential customers		
Is it mandatory for utilities to provide reports of their energy usage, in a bill or by other means?	No	
Commercial customers		
Is it mandatory for utilities to provide reports of their energy usage, in a bill or by other means?	No	
Industrial customers		
Is it mandatory for utilities to provide reports of their energy usage, in a bill or by other means?	No	
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	

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

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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	90.74
Residential customers		
Are customers charged a flat fee (per connection)?	No	
Are customers charged constant block rates?	Yes	
Are customers charged declining block rates?	No	
Are customers charged increasing block rates?	No	
Commercial customers		
Are customers charged a flat fee (per connection)?	No	

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Are customers charged constant block rates?	Yes
Are customers charged declining block rates?	Yes
Are customers charged increasing block rates?	Yes
Industrial customers	
Are customers charged a flat fee (per connection)?	No
Are customers charged constant block rates?	Yes
Are customers charged declining block rates?	Yes
Are customers charged increasing block rates?	Yes
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)?	Yes
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

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

Regulatory Indicators for Sustainable Energy (RISE)

Incentives & mandates: large consumers	Score	72.22
What is the threshold for classifying large consumers?		Provision of energy data: total annual energy consumption exceeds 180 terajoules (TJ). Energy Management Plan: total annual energy consumption exceeds 400 TJ
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		N/A - all voluntary and set by the companies themselves
Are energy audits mandated for large consumers?		No
Are energy efficiency progress reports mandated for large consumers?		No
Interval of reports		N/A
Are energy-management systems mandated for large consumers?		No
Details		N/A
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?		Yes
Are there financial incentives for large consumers to invest in energy efficiency?		Yes

Regulatory Indicators for Sustainable Energy (RISE)

Details	<p>_x000D_- Eskom's Standard Offer/Product Programme (ON HOLD due to financial constraints): the idea is to pay a predetermined rate (or rebate) per verified kWh of energy saved through energy efficiency projects _x000D_- Eskom's EScO model has been reintroduced in 2015 _x000D_- Eskom's Standby Generator Programme _x000D_- Eskom's Supplemental Demand Response Compensation Programme</p>
Are there tax incentives for large consumers to invest in energy efficiency?	Yes
Are there other incentives for large consumers to invest in energy efficiency?	No
Details	N/A
Is there a program to publicly recognize large-scale users that have achieved significant energy savings measures?	Yes
Are energy savings and/or financial savings publicized?	Yes
Does the program offer assistance (from a government or independent entity) to large-scale users to identify energy savings investments opportunities?	Yes
Primary Energy Consumption (MJ - latest GTF data from 2012)	640229.1242

Incentives & mandates: public sector

Score

50

Are there binding energy savings obligations for public buildings?	No
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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)?	No
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	Treasury General Procurement Guidelines
Do public budgeting regulations and practices allow public entities to retain energy savings?	No
Public budgeting regulations for EE	Treasury General Procurement Guidelines

Incentives & mandates: utilities	Score	87.5
Name of utility energy efficiency regulation program		
Electricity generation		
Are utilities required to carry out energy efficiency activities in this area?	Yes	
Details		Targets for FY 214/15: _x000D_- min. 246 MW demand savings (evening peak)_x000D_- min. 592 GWh energy savings_x000D_- min. 1 GWh internal energy efficiency_x000D_- min. 8% energy availability factor (EAF)_x000D_- 13%

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	<p>normal unplanned capability loss factor (UCLF)_x000D_- 3% constrained UCLF_x000D_- 1% underlying UCLF_x000D_- 1% planned capability loss factor (PCLF)_x000D_- 1 maintenance backlog reduction number</p>
Are energy savings or other target indicators measured to track performance in meeting EE requirements?	Yes
Are the requirements measured/validated by an independent third party?	Yes
Are there penalties in place for non-compliance with EE requirements?	No
Are there mandates or incentives for new and/or brownfield co-generation?	No
Transmission & distribution	
Are utilities required to carry out energy efficiency activities in this area?	Yes
Details	<p>Targets for FY 214/15: _x000D_- max. 7.12% distribution losses_x000D_- max. 3.3% transmission losses_x000D_- max. 9.65% total Eskom losses_x000D_- max. 3.8 of total system minutes lost for _x000D_ events 1 minute_x000D_- max. 22 events for SAIFI_x000D_- max. 43 hours for SAIDI</p>
Are energy savings or other target indicators measured to track performance in meeting EE requirements?	Yes

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Are the requirements measured/validated by an independent third party?	Yes
Are there penalties in place for non-compliance with EE requirements?	No
Demand-side management -	
Are utilities required to carry out energy efficiency activities in this area?	Yes
Details	Implementation of various demand-side management measures such as interruptible load agreements with large customers, load curtailment by key industrial users, power buybacks, and load shedding _x000D_x000D_Targets for FY 2014/15: _x000D_- min. 246 MW demand savings (evening peak)_x000D_- min. 592 GWh energy savings_x000D_
Are energy savings or other target indicators measured to track performance in meeting EE requirements?	Yes
Are the requirements measured/validated by an independent third party?	Yes
Are there penalties in place for non-compliance with EE requirements?	No
Is there a demand-side management department within the selected utility?	Yes
Do utilities provide customers incentives for demand response, such as peak-time rebates?	Yes

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

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

Financing mechanisms for energy efficiency	Score	100
Residential sector		

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

Regulatory Indicators for Sustainable Energy (RISE)

Are green bonds available for energy efficiency investments?	Yes
Is vendor credit and/or leasing available for energy efficiency investments?	Yes
Are partial risk guarantees available for energy efficiency investments?	No
Are there any other financing mechanisms available for energy efficiency investments?	No
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	No
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Regulatory Indicators for Sustainable Energy (RISE)

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Details	N/A
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?	Yes
Are there discounted "green" mortgages available for energy efficiency investments?	No
Is on-bill financing/re-payment available for energy efficiency investments?	No
Are credit lines available for energy efficiency investments?	Yes
Are energy services agreements or ESCOs available for energy efficiency investments?	Yes

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Details	N/A
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	47.22
EE standards regulations	214-DTI_NRCS_Compulsory Specification for EE and Labeling of Electrical and Electronic Apparatus_VC98	
Refrigerators		
Have minimum energy performance standards been adopted?	Yes	
Details of standards	Class B, SANS 941	

Regulatory Indicators for Sustainable Energy (RISE)

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?	Yes
Are the standards based on external/international standards?	Yes
Air conditioners	
Have minimum energy performance standards been adopted?	Yes
Details of standards	Class B, SANS 941
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?	Yes
Are the standards based on external/international standards?	Yes
Lighting equipment	
Have minimum energy performance standards been adopted?	Yes
Details of standards	0
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	

Regulatory Indicators for Sustainable Energy (RISE)

Have minimum energy performance standards been adopted?	No
Details of standards	N/A
Is there a verification program in place?	No
Is it carried out by a third party?	No
Is there a penalty for non-compliance with energy efficiency standards?	No
Are the standards based on external/international standards?	No
Other industrial equipment	
Have minimum energy performance standards been adopted?	No
Details of standards	N/A
Is there a verification program in place?	No
Is it carried out by a third party?	No
Is there a penalty for non-compliance with energy efficiency standards?	No
Are the standards based on external/international standards?	No
Light duty vehicles	
Have minimum energy performance standards been adopted?	Yes
Details of standards	SABS 1376-1
Is there a verification program in place?	No
Is it carried out by a third party?	No
Is there a penalty for non-compliance with energy efficiency standards?	No

Regulatory Indicators for Sustainable Energy (RISE)

Are the standards based on external/international standards?	No
Heavy duty vehicles	
Have minimum energy performance standards been adopted?	Yes
Details of standards	SABS 1376-1
Is there a verification program in place?	No
Is it carried out by a third party?	No
Is there a penalty for non-compliance with energy efficiency standards?	No
Are the standards based on external/international standards?	No

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

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?	No
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	
Have energy efficiency labeling schemes been adopted?	Yes
Is the labeling scheme mandatory?	Yes
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

Regulatory Indicators for Sustainable Energy (RISE)

Is the labeling scheme based on external/international standards?	No
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Building energy codes	Score	86.67
Are there energy efficiency codes for new residential buildings?	Yes	
Are there energy efficiency codes for new commercial buildings?	Yes	
Is the energy efficiency code for new residential buildings its own stand-alone, separate code or part of the overall building code?	No	
Is the energy efficiency code for new commercial buildings its own stand-alone, separate code or part of the overall building code?	No	
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	211-National Building Regulations and Building Standards	
When was the code last updated for residential buildings?	2011	
When was the code last updated for commercial buildings?	2011	
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	

Regulatory Indicators for Sustainable Energy (RISE)

Is the energy efficiency code for renovated residential buildings different from the code for new buildings?	No
Is the energy efficiency code for renovated commercial buildings different from the code for new buildings?	No
Is the energy efficiency code for renovated residential buildings its own stand-alone, separate code or part of the overall building code?	No
Is the energy efficiency code for renovated commercial buildings its own stand-alone, separate code or part of the overall building code?	No
Is there any provision for regular updates to the code for renovated residential buildings?	No
Is there any provision for regular updates to the code for renovated commercial buildings?	No
Is there a mandatory standardized rating or labeling system for the energy performance of existing buildings?	Yes
Is the labeling scheme or rating adopted from external standards?	Yes
Are commercial and residential buildings required to disclose property energy usage at the point of sale or when leased?	No
Are large commercial and residential buildings required to disclose property energy usage annually?	No
Are there mandates or targets for new building stocks to achieve high quality energy efficiency certifications, such as LEED (Leadership in Energy & Environmental Design) (e.g. percentage of new building stocks that must be LEED certified)?	Yes
Details	12I Tax Allowance Incentive (investment and training allowance) + 12L EE Tax Incentive (R0.45 per verified kWh (or kWh equivalent) of verified EE savings)

Regulatory Indicators for Sustainable Energy (RISE)

LEED incentives	No
Local program details	SANS 50010:2011

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

Renewable Energy

Legal framework for renewable energy	Score	100
Does a legal framework for renewable energy development exist?	Yes	
Name of the Law	National Energy Act, 2008	
Is private sector ownership of renewable energy generation legally authorized?	Yes	

Planning for renewable energy expansion	Score	74
Does an official renewable energy target exist?	Yes	
Overall target	17.8 GW added capacity	
Solar target	9600 MW	

Regulatory Indicators for Sustainable Energy (RISE)

Wind target	9200 MW
Hydro target	75 MW
Biomass target	12.5 MW
Geothermal target	
Does a renewable energy action plan or strategy to attain the target exist?	Yes
Name of the action plan	0
Does the plan or strategy define the amount of investment necessary to meet the RE target?	Yes
The amount of investment identified	0
Is there an institution responsible for tracking progress in renewable energy development?	Yes
Name of the institution	0
Does an electricity generation plan that includes renewable energy development exist?	Yes
Name of the generation plan	0
Is the expansion plan based on a probabilistic approach?	No
Does the current transmission planning consider renewable energy scale-up?	Yes
Name of the transmission plan	0
Has the country conducted a variable renewable energy integration study?	Yes
Name of the integration study	0

Regulatory Indicators for Sustainable Energy (RISE)

Year of the integration study	2014
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;	No
Solar atlas is accompanied by an explanation of the methodology and instrumentation	Yes
Has the country carried out strategic planning or produced zoning guidance to inform the commercial development of solar resources?	Yes
Has the solar resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process?	Yes
Are the solar resource planning or zoning guidance outputs publically available?	Yes
Does the country have sufficient resource abundance to warrant a wind resource atlas?	Yes
Does the government publish or endorse a wind resource atlas or other data on the abundance and quality of the resource?	Yes
Wind atlas is validated by at least 5 ground-based measurements taken for a period of at least a year;	Yes
Wind atlas has a spatial resolution of 5km or less;	Yes

Regulatory Indicators for Sustainable Energy (RISE)

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	Yes
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
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

Regulatory Indicators for Sustainable Energy (RISE)

Does the country publish or endorse a national biomass resource map or atlas?	No
Biomass atlas is validated by ground-based survey or officially reported data;	No
Biomass atlas is accompanied by an explanation of the methodology and instrumentation.	No
Has the biomass resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process?	No
Are the biomass resource planning or zoning guidance outputs publically available?	No
Does the country have sufficient resource abundance to warrant a geothermal resource atlas?	No
Does the country publish or endorse a national geothermal resource map or atlas?	No
The 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

Regulatory Indicators for Sustainable Energy (RISE)

Are the geothermal resource planning or zoning guidance outputs publically available?	No
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Incentives and regulatory support for renewable energy	Score	100
Is there at least one scheme to support renewable energy per unit of electricity generated? (e.g., feed-in tariff, competitive bidding/auction, mandates, generation premiums, production tax credits)?		Yes
Feed-in tariff		No
Feed-in tariff - Solar		No
Feed-in tariff - Wind		No
Feed-in tariff - Hydro		No
Feed-in tariff - Biomass		No
Feed-in tariff - Geothermal		No
Government body in charge		
Projects guaranteed off-take		No
Solar Feed-in-tariff Price (\$ cents/kWh)		
Solar Feed-in-tariff Max. capacity (single)		
Solar Feed-in-tariff Max. capacity (total)		
Solar Feed-in-tariff Closing date		
Wind Feed-in-tariff Price (\$ cents/kWh)		
Wind Feed-in-tariff Max. capacity (single)		

Regulatory Indicators for Sustainable Energy (RISE)

Wind Feed-in-tariff Max. capacity (total)	
Wind Feed-in-tariff Closing date	
Hydro Feed-in-tariff Price (\$ cents/kWh)	
Hydro Feed-in-tariff Max. capacity (single)	
Hydro Feed-in-tariff Max. capacity (total)	
Hydro Feed-in-tariff Closing date	
Biomass Feed-in-tariff Price (\$ cents/kWh)	
Biomass Feed-in-tariff Max. capacity (single)	
Biomass Feed-in-tariff Max. capacity (total)	
Biomass Feed-in-tariff Closing date	
Geothermal Feed-in-tariff Price (\$ cents/kWh)	
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	2014
Auction 1 - Technology	wind, solar, hydro, biomass, LFG
Auction 1 - Project-specific tender and size (MW)	
Auction 1 - Auction for total and size (MW)	1105 MW

Regulatory Indicators for Sustainable Energy (RISE)

Auction 1 - Standard PPA and Term	20 years
Auction 1 - Price ceiling	Yes
Auction 1 - Winning bid (\$ cents/kWh)	list of preferred bidders with varying bids
Auction 1 - Government body in charge	Department of Energy (DoE)
Auction 2 - Year	2013
Auction 2 - Technology	wind, solar, hydro, biomass, biogas, LFG
Auction 2 - Project-specific tender and size (MW)	
Auction 2 - Auction for total and size (MW)	1473 MW
Auction 2 - Standard PPA and Term	20 years
Auction 2 - Price ceiling	Yes
Auction 2 - Winning bid (\$ cents/kWh)	list of preferred bidders with varying bids
Auction 2 - Government body in charge	DoE
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	Yes
Reduction in import taxes	Yes
Reduction in sales tax or other taxes	Yes
Does the country provide prioritized access to the grid for RE?	Yes
Do RE projects receive priority in dispatch?	Yes
Are there provisions to compensate seller if offtake infrastructure is not built in time?	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	56
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?	No	
Are tariffs indexed (in part or in whole) to an international currency or to inflation?	Yes	
If there is a guaranteed tariff, is there a mechanism to adjust the level of the tariff for new entrants (e.g., declination)?	N/A	
If there is a guaranteed tariff, is there a mechanism to differentiate tariffs based on the size of the generation plant?	N/A	
If there is competitive bidding/auctions, are there provisions to ensure full and timely project completion (e.g., bid-bonds, project milestones, eligibility requirements)	No	

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)?	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		REQUEST FOR QUALIFICATION AND PROPOSALS FOR NEW GENERATION CAPACITY UNDER THE REIPP PROCUREMENT PROGRAMME
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	

Regulatory Indicators for Sustainable Energy (RISE)

Are there provisions in the power exchange rules that allow for plant forecasting?	N/A
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Counterparty risk	Score	49
Does the government offer or allow backing of utility payments (e.g. through a letter of credit, escrow account, payment guarantee, or other)?	No	
Information disclosure	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?	Yes	
Are the financial statements of the largest distribution company publicly available?	Yes	
Are the financial statements of the largest retail electricity sales company publicly available?	Yes	
Are the following metrics published in a primary official document (by the utility, regulator or ministry and/or government)?	0	
Is the transmission loss rate published in a primary official document (by the utility, regulator or ministry and/or government)?	Yes	
Is the distribution loss rate published in a primary official document (by the utility, regulator or ministry and/or government)?	Yes	
Is the bill collection rate published in a primary official document (by the utility, regulator or ministry and/or government)?	No	

Regulatory Indicators for Sustainable Energy (RISE)

Is the amount of electricity available for sale to end-users published in a primary official document (by the utility, regulator or ministry and/or government)?	Yes
Information Auditing	33
Financial statements independently audited?	0
Are the financial statements of the largest generation company audited?	Yes
Are the financial statements of the largest transmission company audited?	Yes
Are the financial statements of the largest distribution company audited?	Yes
Are the financial statements of the largest retail electricity sales company audited?	Yes
Monitoring Reliability	0
Is the utility operating an incidence/outage recording system (or SCADA/EMS with such functionality)?	Yes
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	Eskom
data - 17.1. Current ratio (working capital ratio)	1
data - 17.2 Debt Service Coverage Ratio	2
data - 17.3 Days payable outstanding	155
data - 17.4 EBITDA margin	0

Regulatory Indicators for Sustainable Energy (RISE)

Current ratio (working capital ratio) of selected utility	0
Debt Service Coverage Ratio of selected utility	25
Days payable outstanding of selected utility	5
EBITDA margin of selected utility	21

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