

2016 Country Data - Mozambique

Energy Access

Indicator	Score
Existence and monitoring of officially approved electrification plan	0
Scope of officially approved electrification plan	0
Framework for grid electrification	16.67
Framework for minigrids	35
Framework for stand-alone systems	11.11
Consumer affordability of electricity	100
Utility Transparency and Monitoring	83.33
Utility Creditworthiness	59.17
Total	38.16

Energy Efficiency

Indicator	Score
National energy efficiency planning	0
Energy efficiency entities	0
Information provided to consumers about electricity usage	41.67
EE incentives from electricity rate structures	33.33
Incentives & mandates: large consumers	0
Incentives & mandates: public sector	0
Incentives & mandates: utilities	0
Financing mechanisms for energy efficiency	0
Minimum energy efficiency performance standards	0
Energy labeling systems	0
Building energy codes	0
Carbon Pricing	0
Total	6.25



Renewable Energy

Indicator	Score
Legal framework for renewable energy	50
Planning for renewable energy expansion	28
Incentives and regulatory support for renewable energy	50
Attributes of financial and regulatory incentives	44
Network connection and pricing	0
Counterparty risk	47
Carbon pricing and monitoring	0
Total	31.29

Overall Score	25.23

Energy Access

Existence and monitoring of officially approved Score electrification plan	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



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	16.67
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?	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.)?	No
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Framework for minigrids Score	35
Are minigrids legally allowed to operate in the country?	Yes
Name and date of the regulation for minigrids	Law #21/97 - 1997 (Lei de Electricidade)
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
Are mini-grid operators legally allowed to charge a different tariff from the national tariff?	Yes
Is there a retail electricity tariff schedule for minigrids?	No
Examples of minigrid tariffs	0



Name of the regulation on minigrid tariffs	Law Nr. 21/97 (Lei de Electricidade)
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?	No



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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
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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?	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? Are there specific market financing facilities available to support operators to develop stand-alone systems? Are there specific government financing facilities available to support operators to develop stand-alone systems? Are there specific market financing facilities available to support consumers to purchase stand-alone systems? Are there specific government financing facilities available to support consumers to purchase stand-alone standalone systems? Are there specific government financing facilities available to support consumers to purchase stand-alone standalone systems? Are there technical standards detailing the requirements for minigrids to connect the grid? Are there technical standards made publicly available? No Name of the document detailing technical standards O Are there safety standards for minigrids? No Are these safety standards made publicly available? No No Does the government implement certification programs for minigrid installers? Does the government provide or endorse certification programs for one or more components or equipment required for minigrids? Has the government adopted international quality standards for stand-alone systems? Name of the document detailing quality standards O		
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stand-alone systems?	for one or more components or equipment required for	No
Name of the document detailing quality standards 0		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)?	No
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 11.11
Are there publicly funded mechanisms to secure viability gar funding for operators?	ap 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



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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?	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
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Do duty exemptions exist for stand-alone systems?	No
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Do duty exemptions exist for batteries?	No
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?	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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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)?	No
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?	No
Details on the national program promoting stand-alone systems	0

Consumer affordability of electricity	Score	100
What is the annual cost of subsistence consumption (30kWh/month) as a percentage of GNI per househo 20 percent of population?		1.77875483209553%



Tariff schedule / tariff structure taken into account	2014 Annual Statistical Report, Electricidade de Mocambique
Is there a mechanism to support low-volume consumers such as cross-subsidization, social or lifeline tariff?	Yes

Utility Transparency and Monitoring	Score	83.33
Are the financial statements of the largest generation publicly available?	company	Yes
Are the financial statements of the largest transmission publicly available?	on company	Yes
Are the financial statements of the largest distribution publicly available?	company	Yes
Are the financial statements of the largest retail electrompany publicly available?	icity sales	Yes
Are the financial statements of the largest generation audited?	company	Yes
Are the financial statements of the largest transmissic audited?	on company	Yes
Are the financial statements of the largest distribution audited?	ı company	Yes
Are the financial statements of the largest retail electrompany audited?	icity sales	Yes
Is the transmission loss rate published in a primary of document (by the utility, regulator or ministry and/or government)?	ficial	Yes
Is the distribution loss rate published in a primary offi document (by the utility, regulator or ministry and/or government)?	cial	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)?	No
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?	No

Utility Creditworthiness	Score	59.17
Current ratio (working capital ratio) of selected utility		9.1711666667
EBITDA margin of selected utility		25
Debt service coverage ratio of selected utility		25
Days payable outstanding of selected utility		0

Energy Efficiency

National energy efficiency planning Sc	ore 0
Is there legislation or a national action plan that aims to incre EE?	ease No
Name of EE legislation or action plan	0
Is there an energy efficiency goal or target at the national lev	el? No



Natonal target details	0
Is there a target for the residential sector?	No
Target details	0
Does the target have a milestone or deadline?	No
Is there a commercial servcies sector target?	No
Target details	0
Does the target have a milestone or deadline?	No
Is there an industrial sector target?	No
Target details	0
Does the target have a milestone or deadline?	No
Is there a power sector target?	No
Target details	0
Does the target have a milestone or deadline?	No

Energy efficiency entities Score	0
Are there governmental and/or independent bodies dedicated to setting EE strategy?	No
Name of entity	0
Are there governmental and/or independent bodies dedicated to setting EE standards?	No
Name of entity	0



Are there governmental and/or independent bodies dedicated to regulating EE activities of energy suppliers?	No
Name of entity	0
Are there governmental and/or independent bodies dedicated to regulating EE activities of energy consumers?	No
Name of entity	0
Are there governmental and/or independent bodies dedicated to certifying compliance with equipment EE standards?	No
Name of entity	0
Are there governmental and/or independent bodies dedicated to certifying compliance with building EE standards?	No
Name of entity	0
Are there governmental and/or independent bodies dedicated to selecting and/or approving third party auditors tasked with certifying EE standards?	No
Name of entity	0

Information provided to consumers about electricity usage	Score	41.67
Residential customers		
Is it mandatory for utilities to provide reports of their e usage, in a bill or by other means?	nergy	Yes
Commercial customers		
Is it mandatory for utilities to provide reports of their e usage, in a bill or by other means?	nergy	Yes



Industrial customers	
Is it mandatory for utilities to provide reports of their energy usage, in a bill or by other means?	Yes
Residential customers	
At what intervals do customers receive these reports (times per year)?	12
Do the reports include the price levels customers pay for energy usage?	Yes
Commercial customers	
At what intervals do customers receive these reports (times per year)?	12
Do the reports include the price levels customers pay for energy usage?	Yes
Industrial customers	
At what intervals do customers receive these reports (times per year)?	12
Do the reports include the price levels customers pay for energy usage?	Yes
Does the regulator track utilites' 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	
Do customers receive a bill or report that shows their energy usage compared to previous bills or reports over time?	No
Commercial customers	
Do customers receive a bill or report that shows their energy usage compared to previous bills or reports over time?	No
Industrial customers	
Do customers receive a bill or report that shows their energy usage compared to previous bills or reports over time?	No
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	33.33
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
Are customers charged constant block rates?	Yes
Are customers charged declining block rates?	No
Are customers charged increasing block rates?	No
Industrial customers	
Are customers charged a flat fee (per connection)?	No
Are customers charged constant block rates?	Yes
Are customers charged declining block rates?	No
Are customers charged increasing block rates?	No
Residential customers	
Do customers pay energy charges (per kWh)?	Yes
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



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Do customers pay demand charges (per kW)?	No
Do customers pay reactive power charges (per kVAR)?	No
Industrial customers	
Do customers pay energy charges (per kWh)?	Yes
Do customers pay demand charges (per kW)?	No
Do customers pay reactive power charges (per kVAR)?	No
Residential customers	
Are customers charged based on real-time pricing?	No
Are customers charged based on variable peak pricing?	No
Are customers charged based on critical peak pricing?	No
Are tariffs adjusted according to seasons?	No
Do customers pay according to time-of-day electricity use or receive peak-time rebates?	No
Commercial customers	
Are customers charged based on real-time pricing?	No
Are customers charged based on variable peak pricing?	No
Are customers charged based on critical peak pricing?	No
Are tariffs adjusted according to seasons?	No
Do customers pay according to time-of-day electricity use or receive peak-time rebates?	No
Industrial customers	



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

Incentives & mandates: large consumers Score	0
What is the threshold for classifying large consumers?	0
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	0
Are energy audits mandated for large consumers?	No
Are energy efficiency progress reports mandated for large consumers?	No
Interval of reports	0
Are energy-management systems mandated for large consumers?	No
Details	0
Are there penalties in place for non-compliance with regulatory obligations for large consumers?	No



Is there a measurement and verification program in place?	No
Is verification done by a third party?	No
Are there financial incentives for large consumers to invest in energy efficiency?	No
Details	0
Are there tax incentives for large consumers to invest in energy efficiency?	No
Are there other incentives for large consumers to invest in energy efficiency?	No
Details	0
Is there a program to publicly recognize large-scale users that have achieved significant energy savings measures?	No
Are energy savings and/or financial savings publicized?	No
Does the program offer assistance (from a government or independent entity) to large-scale users to identify energy savings investments opportunities?	No
Primary Energy Consumption (MJ - latest GTF data from 2012)	218207

Incentives & mandates: public sector Score	0
Are there binding energy savings obligations for public buildings?	No
Are energy savings from efficiency activities at public buildings tracked (either in-house or by a third party)?	No
Are there binding energy savings obligations for other public facilities (may include water supply, wastewater services, municipal solid waste, street lighting, transportation, and heat supply)?	No



Are energy savings from efficiency activities at other public facilities tracked?	No
Is there a specific policy or mandated guidelines for public procurement of energy-efficient products and services?	No
Public procurement guidelines for EE	
Do public budgeting regulations and practices allow public entities to retain energy savings?	No
Public budgeting regulations for EE	

Incentives & mandates: utilities	Score	0
Name of utility energy efficiency regulation program		
Electricity generation		
Are utilities required to carry out energy efficiency acthis area?	ctivities in	No
Details		
Are energy savings or other target indicators measure performance in meeting EE requirements?	red to track	No
Are the requirements measured/validated by an indethird party?	ependent	No
Are there penalties in place for non-compliance with requirements?	EE	No
Are there mandates or incentives for new and/or brogeneration?	ownfield co-	No
Transmission & distribution		
Are utilities required to carry out energy efficiency acthis area?	ctivities in	No



Details	
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
Demand-side management -	
Are utilities required to carry out energy efficiency activities in this area?	No
Details	0
Are energy savings or other target indicators measured to track performance in meeting EE requirements?	No
Are the requirements measured/validated by an independent third party?	No
Are there penalties in place for non-compliance with EE requirements?	No
Is there a demand-side management department within the selected utility?	No
Do utilities provide customers incentives for demand response, such as peak-time rebates?	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? Are these available as government-driven financing mechanisms? Are there credit lines available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities? Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? Are these available as government-driven financing mechanisms? Are there partial risk guarantees available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities? Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? Are these available as government-driven financing mechanisms? Is there program cost recovery available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities? Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? Are these available as government-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? Are these available as government-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? Are these available as government-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?		
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mechanisms? Are there partial risk guarantees available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities? Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? Are these available as government-driven financing No mechanisms? Is there program cost recovery available for utilities to recover costs associated with or revenue lost from mandated energy efficiency activities? Are these available as solely market-driven financing No mechanisms without any direct government approval, subsidy, authorization or other mediation procedure? Are these available as government-driven financing No mechanisms? Is there ESCO financing available for utilities to recover costs associated with or revenue lost from mandated energy efficiency	mechanisms without any direct government approval, subsidy,	No
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mechanisms? Is there ESCO financing available for utilities to recover costs associated with or revenue lost from mandated energy efficiency	mechanisms without any direct government approval, subsidy,	No
associated with or revenue lost from mandated energy efficiency		No
	associated with or revenue lost from mandated energy efficiency	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
Are these available as government-driven financing mechanisms?	No

Financing mechanisms for energy efficiency Score	0
Residential sector	
Are there tax incentives available for energy efficiency investments?	No
Are there discounted "green" mortgages available for energy efficiency investments?	No
Is on-bill financing/re-payment available for energy efficiency investments?	No



	<u> </u>
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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Are these available as government-driven financing mechanisms?	No



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Are these available as government-driven financing mechanisms?	No
Details	
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	No
Are these available as government-driven financing mechanisms?	No
Commercial services sector	
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



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Are these available as government-driven financing mechanisms?	No
Details	
Are these available as solely market-driven financing mechanisms without any direct government approval, subsidy, authorization or other mediation procedure?	No
Are these available as government-driven financing mechanisms?	No
Industrial sector	
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



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

Minimum energy efficiency performance Score standards	0
EE standards regulations	
Refrigerators	
Have minimum energy performance standards been adopted?	No
Details of standards	0
Is there a verification program in place?	No
Is it carried out by a third party?	No
Is there a penalty for non-compliance with energy efficiency standards?	No
Are the standards based on external/international standards?	No
Air conditioners	
Have minimum energy performance standards been adopted?	No



Details of standards	0
Is there a verification program in place?	No
Is it carried out by a third party?	No
Is there a penalty for non-compliance with energy efficiency standards?	No
Are the standards based on external/international standards?	No
Lighting equipment	
Have minimum energy performance standards been adopted?	No
Details of standards	0
Is there a verification program in place?	No
Is it carried out by a third party?	No
Is there a penalty for non-compliance with energy efficiency standards?	No
Are the standards based on external/international standards?	No
Industrial electric motors	
Have minimum energy performance standards been adopted?	No
Details of standards	0
Is there a verification program in place?	No
Is it carried out by a third party?	No
Is there a penalty for non-compliance with energy efficiency standards?	No
Are the standards based on external/international standards?	No



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Other industrial equipment	
Have minimum energy performance standards been adopted?	No
Details of standards	0
Is there a verification program in place?	No
Is it carried out by a third party?	No
Is there a penalty for non-compliance with energy efficiency standards?	No
Are the standards based on external/international standards?	No
Light duty vehicles	
Have minimum energy performance standards been adopted?	No
Details of standards	0
Is there a verification program in place?	No
Is it carried out by a third party?	No
Is there a penalty for non-compliance with energy efficiency standards?	No
Are the standards based on external/international standards?	No
Heavy duty vehicles	
Have minimum energy performance standards been adopted?	No
Details of standards	0
Is there a verification program in place?	No
Is it carried out by a third party?	No



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

Energy labeling systems	Score	0
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?		No
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?		No
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?		No



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 0	
Are there energy efficiency codes for new residential b	ouildings? No	
Are there energy efficiency codes for new commercial	buildings? No	



Is the energy efficiency code for new residential buildings its own stand-alone, separate code or part of the overall building code?	No
Is the energy efficiency code for new commercial buildings its own stand-alone, separate code or part of the overall building code?	No
Is there any provision for regular updates to the code for new residential buildilngs?	No
Is there any provision for regular updates to the code for new commercial buildings?	No
EE building code regulations	
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?	No
Is it carried out by a third party?	No
Are renovated residential buildings required to meet a building energy codee?	No
Are renovated commercial buildings required to meet a building energy code?	No
Is the energy efficiency code for renovated residential buildings different from the code for new buildings?	No
Is the energy efficiency code for renovated commercial buildings different from the code for new buildings?	No
Is the energy efficiency code for renovated residential buildings its own stand-alone, separate code or part of the overall building code?	No
Is the energy efficiency code for renovated commercial buildings its own stand-alone, separate code or part of the overall building	No



code?	
Is there any provision for regular updates to the code for renovated residential buildings?	No
Is there any provision for regular updates to the code for renovated commercial buildings?	No
Is there a mandatory standardized rating or labeling system for the energy performance of existing buildings?	No
Is the labeling scheme or rating adopted from external standards?	No
Are commercial and residential buildings required to disclose property energy usage at the point of sale or when leased?	No
Are large commercial and residential buildings required to disclose property energy usage annually?	No
Are there mandates or targets for new building stocks to achieve high quality energy efficiency certifications, such as LEED (Leadership in Energy & Environmental Design) (e.g. percentage of new building stocks that must be LEED certified)?	No
Details	N/A
LEED incentives	No
Local program details	0

Carbon Pricing Score	e 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 Sc	core 50
Does a legal framework for renewable energy development exist?	No
Name of the Law	0
Is private sector ownership of renewable energy generation legally authorized?	Yes

Planning for renewable energy expansion	Score	28
Does an official renewable energy target exist?		No
Overall target		400 MW
Solar target		
Wind target		
Hydro target		
Biomass target		
Geothermal target		
Does a renewable energy action plan or strategy to att target exist?	ain the	No
Name of the action plan		0
Does the plan or startegy define the amount of investr necessary to meet the RE target?	nent	No
The amount of investment identified		0
Is there an institution responsible for tracking progress renewable energy development?	s in	No



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?	N/A
Does the current transmission planning consider renewable energy scale-up?	No
Name of the transmission plan	0
Has the country conducted a variable renewable energy integration study?	No
Name of the integration study	0
Year of the integration study	
Does the country have sufficient resource abundance to warrant a solar resource atlas?	Yes
Does the government publish or endorse a solar resource atlas or other data on the abundance and quality of the resource?	Yes
Solar atlas is validated by at least 5 ground-based measurements taken for a period of at least a year;	No
Solar atlas has a spatial resolution of 5km or less;	No
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	No
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? Are the solar resource planning or zoning guidance outputs publically available? Does the country have sufficient resource abundance to warrant a wind resource atlas? Does the government publish or endorse a wind resource atlas or other data on the abundance and quality of the resource? Wind atlas is validated by at least 5 ground-based measurements taken for a period of at least a year; Wind atlas has a spatial resolution of 5km or less; No Wind atlas is based on modeling inputs covering at least a 10 year period; Wind atlas is accompanied by an explanation of the methodology and instrumentation Has the country carried out strategic planning or produced zoning guidance to inform the commercial development of wind resources? Has the wind resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process? Are the wind resource planning or zoning guidance outputs publically available? Does the country have sufficient resource abundance to warrant a hydro resource atlas? Does the country publish or endorse a national hydro resource map or atlas? Hydro atlas is validated by ground-based water run-off data and/or site surveys from potential sites;		
publically available? Does the country have sufficient resource abundance to warrant a wind resource atlas? Does the government publish or endorse a wind resource atlas or other data on the abundance and quality of the resource? Wind atlas is validated by at least 5 ground-based measurements taken for a period of at least a year; Wind atlas has a spatial resolution of 5km or less; No Wind atlas is based on modeling inputs covering at least a 10 year period; Wind atlas is accompanied by an explanation of the methodology and instrumentation Has the country carried out strategic planning or produced zoning guidance to inform the commercial development of wind resources? Has the wind resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process? Are the wind resource planning or zoning guidance outputs Does the country have sufficient resource abundance to warrant a hydro resource atlas? Does the country publish or endorse a national hydro resource map or atlas? Hydro atlas is validated by ground-based water run-off data No	undertaken as part of a strategic environmental and social	No
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Are the wind resource planning or zoning guidance outputs publically available? Does the country have sufficient resource abundance to warrant a hydro resource atlas? No No No No No No No No No N		No
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Does the country have sufficient resource abundance to warrant a hydro resource atlas? Does the country publish or endorse a national hydro resource map or atlas? Hydro atlas is validated by ground-based water run-off data No	undertaken as part of a strategic environmental and social	No
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map or atlas? Hydro atlas is validated by ground-based water run-off data No		Yes
		Yes
		No



Hydro atlas is accompanied by an explanation of the methodology and instrumentation	No
Has the country carried out strategic planning or produced zoning guidance to inform the commercial development of hydro resources?	No
Has the hydro resource planning or zoning guidance been undertaken as part of a strategic environmental and social assessment or equivalent process?	No
Are the hydro resource planning or zoning guidance outputs publically available?	No
Does the country have sufficient resource abundance to warrant a biomass resource atlas?	No
Does the country publish or endorse a national biomass resource map or atlas?	Yes
Biomass atlas is validated by ground-based survey or officially reported data;	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?	Yes
The governmetn 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 Score energy	50
Is there at least one scheme to support renewable energy per unit of electricity generated? (e.g., feed-in tariff, competitive bidding/auction, mandates, generation premiums, production tax credits)?	Yes
Feed-in tariff	Yes
Feed-in tariff - Solar	Yes
Feed-in tariff - Wind	Yes
Feed-in tariff - Hydro	Yes
Feed-in tariff - Biomass	Yes



Feed-in tariff - Geothermal	No
Government body in charge	Ministry of Mineral Resources and Energy (MIREME)
Projects guaranteed off-take	No
Solar Feed-in-tariff Price (\$ cents/kWh)	16
Solar Feed-in-tariff Max. capacity (single)	10MW
Solar Feed-in-tariff Max. capacity (total)	
Solar Feed-in-tariff Closing date	
Wind Feed-in-tariff Price (\$ cents/kWh)	8
Wind Feed-in-tariff Max. capacity (single)	10MW
Wind Feed-in-tariff Max. capacity (total)	
Wind Feed-in-tariff Closing date	
Hydro Feed-in-tariff Price (\$ cents/kWh)	5
Hydro Feed-in-tariff Max. capacity (single)	10 MW
Hydro Feed-in-tariff Max. capacity (total)	
Hydro Feed-in-tariff Closing date	
Biomass Feed-in-tariff Price (\$ cents/kWh)	8
Biomass Feed-in-tariff Max. capacity (single)	10 MW
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	2012
Auction 1 - Technology	Wind
Auction 1 - Project-specific tender and size (MW)	30 MW
Auction 1 - Auction for total and size (MW)	30 MW
Auction 1 - Standard PPA and Term	NA
Auction 1 - Price ceiling	No
Auction 1 - Winning bid (\$ cents/kWh)	12
Auction 1 - Government body in charge	MIREME
Auction 2 - Year	
Auction 2 - Technology	
Auction 2 - Project-specific tender and size (MW)	
Auction 2 - Auction for total and size (MW)	
Auction 2 - Standard PPA and Term	
Auction 2 - Price ceiling	No
Auction 2 - Winning bid (\$ cents/kWh)	



Auction 2 - Government body in charge	
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?)	No
Investment tax credit	No
Accelerated depreciation	No
Reduction in import taxes	No
Reduction in sales tax or other taxes	No
Does the country provide prioritized access to the grid for RE?	Yes
Do RE projects receive priority in dispatch?	Yes
Are there provisions to compensate seller if offtake infrastructure is not built in time?	No
Are there mechanisms to compensate RE projects for lost generation due to certain curtailments after project commissioning?	No

Attributes of financial and regulatory incentives	Score	44
Is the market entry mechanism for private RE projects de (e.g. 1st come 1st served; tenders)	fined?	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)?	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)	No
If there is a renewable energy mandate, can it be met with tradable certificates (e.g., RECs, ROCs, TECs)?	N/A
Is the price subsidy/benefit implied by a renewable energy incentive program passed through in full or in part to the final electricity consumer?	No

Network connection and pricing Score	0
Are there rules defining the allocation of connection costs?	No
What is the type of the connection cost allocation policy (i.e. shallow/deep)?	N/A
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)?	No
Do the rules define the size and allocation of costs for transmission and distribution wheeling charges? (e.g., wheeling charges, locational pricing?)	No
Do the rules consider customer type/size in determining eligibility for purchasing electricity from a third party?	No



connection cost document	0
Does the country have a grid code that includes measures or standards addressing variable renewable energy?	No
Is there more than one balancing area in the country?	No
Are there rules for exchanging power between balancing areas that penalize variable renewable energy (e.g. through imbalance penalties)?	N/A
Are there provisions in the power exchange rules that allow for plant forecasting?	N/A

Counterparty risk Score	47
Does the government offer or allow backing of utility payments (e.g. through a letter of credit, escrow account, payment guarantee, or other)?	No
Information disclosure	33
Are the financial statements of the largest utility publicly available?	0
Are the financial statements of the largest generation company publicly available?	Yes
Are the financial statements of the largest transmission company publicly available?	Yes
Are the financial statements of the largest distribution company publicly available?	Yes
Are the financial statements of the largest retail electricity sales company publicly available?	Yes
Are the following metrics published in a primary official document (by the utility, regulator or ministry and/or government)?	0



Is the transmission loss rate published in a primary official document (by the utility, regulator or ministry and/or government)? Is the distribution loss rate published in a primary official document (by the utility, regulator or ministry and/or government)? Is the bill collection rate published in a primary official document (by the utility, regulator or ministry and/or government)? 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)? Information Auditing 33 Financial statements independently audited? O Are the financial statements of the largest generation company audited? Are the financial statements of the largest transmission company audited? Are the financial statements of the largest distribution company audited? Are the financial statements of the largest retail electricity sales company audited? Are the financial statements of the largest retail electricity sales company audited? Monitoring Reliability O Is the utility operating an incidence/outage recording system (or SCADA/EMS with such functionality)? Is the utility measuring the SAIDI and SAIFI or any other measurements for service reliability? Are the data reported to the regulatory body? Yes		
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SCADA/EMS with such functionality)? Is the utility measuring the SAIDI and SAIFI or any other measurements for service reliability? Yes	Monitoring Reliability	0
measurements for service reliability?		No
Are the data reported to the regulatory body? Yes		Yes
	Are the data reported to the regulatory body?	Yes



Are the data available to the public?	No
Name of the selected utility	Electricidade de Moçambique E.P. (EDM)
data - 17.1. Current ratio (working capital ratio)	1
data - 17.2 Debt Service Coverage Ratio	5
data - 17.3 Days payable outstanding	383
data - 17.4 EBITDA margin	0
Current ratio (working capital ratio) of selected utility	9
Debt Service Coverage Ratio of selected utility	25
Days payable outstanding of selected utility	0
EBITDA margin of selected utility	25

Carbon pricing and monitoring	Score	0
Is there a carbon pricing mechanism in place?		No
For any carbon pricing mechanism (e.g. carbon ta trading system), what is the portion of national Glovered)?		0%
Is there a monitoring, reporting and verification s greenhouse gas emissions in place?	ystem for	No