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Ease of Doing Solar 2020 In ISA Member Countries

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Foreword

With increased economic growth, there will be an exponential rise in demand for amenities owing to increased human consumption. This, in turn, would place an enormous demand on the resources of countries around the globe including that on the electricity or power sector. Therefore, the imperative is not just to meet the growing demand but meeting it in a sustained and efficient way.

The 2030 Agenda for Sustainable Development and the widely adopted Sustainable Development Goals (SDG) present a roadmap for sustainable, climate-conscious development for the ISA member countries. Among these, is the goal of a low-carbon future that necessitates resources with least or no carbon footprints quintessential in the energy mix. Solar, an abundant resource, holds the key here and is the most suitable alternative. However, large scale solar deployment would require vast scale investments across all solar rich countries and primarily a deep level of interest from the Investors worldwide.

Governments must navigate a complex maze of policy preparedness, technical feasibility and financial robustness to bring in the best solar technologies in the country. Investors, globally, would be attracted to a transparent and infrastructure ready regime supported by an investor friendly market. It is, therefore, essential for countries to assess their existing preparedness for solar investments and suitably adopt successful global learnings.

In 2019, the International Solar Alliance (ISA) felt the need of a publication that can address the areas of concern in the matter and decided to prepare the Ease of Doing Solar report as a demonstration pilot for consideration by the second General Assembly of the ISA. With a grand success of the first edition, the ISA decided to expand this initiative to cover the 80 member countries.

The ISA, with an assistance from Ernst & Young LLP (EY), has conceptualized a framework for evaluating countries on seven key indicators (macroeconomy, policy enablers, technical feasibility, market maturity, infrastructure, financing ecosystem and energy imperatives) and came up with a report that can be used by Governments and Investors to identify key challenges and drivers. The EoDS report is expected to serve as a ready reckoner for Governments to understand the policies, regulations and their effectiveness among the member countries and to build a robust and sustainable solar energy ecosystem in their home countries.

We hereby present this report to the Honourable members of Third Assembly of the ISA for consideration. My heartiest congratulation to the ISA Secretariat for bringing out this document.



Upendra Tripathy

Director General

International Solar Alliance

Glossary

Abbreviation	Full Form
BU	Billion Unit
1 BU	1 Terawatt-hour
Ckt km	Circuit Kilometer
COP	Conference of the Parties
CUF	Capacity Utilisation Factor
EoDS	Ease of Doing Solar
EU	European Union
FDI	Foreign Direct Investment
FY	Financial Year
GDP	Gross Domestic Product
GHG	Green house gases
GHI	Global Horizontal Irradiance
GW	Gigawatt
GWh	Gigawatt-hour
IPP	Independent Power Producer
km	Kilometer
kV	Kilo Volt
kW	Kilowatt
kWh	Kilowatt-hour
Mn.	Million
MU	Million Unit
1 MU	1 Gigawatt-hour
MVA	Million Volt Ampere
MW	Megawatt
MWh	Megawatt-hour
NPA	Non-performing asset
PV	Photovoltaic
RE	Renewable Energy
sq.	Square
SEIN	Sistema Eléctrico Interconectado Nacional
SHS	Solar Home Systems
TWh	Terawatt-hour
T&D	Transmission & Distribution
UNFCCC	United Nations Framework Convention on Climate Change
US\$/ USD	United States Dollar
VAT	Value Added Tax
NFP	National Focal Points



Executive summary

1. Overview

The ISA aims to undertake joint efforts to reduce the cost of finance and the cost of technology and mobilize more than US\$ 1,000 billion of investments by 2030 in the solar sector. The ISA’s aim is to provide a dedicated platform for cooperation among solar-resource-rich countries through which the global community (including governments, bilateral and multilateral organizations, corporates, industry, and other stakeholders) can contribute to help achieve the common goal of increasing the use and improving the quality of solar energy in meeting energy needs in a safe, convenient, affordable, equitable and sustainable manner.

The Ease of Doing Solar 2020 Report, for the ISA members, is a continuation of the pilot study conducted for 4 member countries in 2019 and is now expanded to cover 80 ISA member countries with a refined evaluation framework. The report intends to provide a compendium, to the governments, on current progress and best practices for adoption across enabling parameters for solar across member nations. Further, it is expected to act as a reference to the Financial Institutions investing in solar. The ISA intends to publish this report on an annual basis by undertaking evaluation framework design, data collection, collation, analysis and the dissemination of the outcomes among member countries.

The assessment has been carried out, for each of the 80 member countries, across seven key drivers: macroeconomy, policy enablers, technological feasibility, power market maturity, infrastructure, financing, and energy imperatives. To study and quantify performance of the ISA member countries across these Drivers, various parameters and indicators have been selected under each driver to demonstrate Ease of Doing Solar. The seven key drivers form the bedrock of the EoDS evaluation model with weightages assigned to the drivers, parameters and indicators for a quantitative evaluation of the overall EoDS scores for the countries. Data for this study has been collected from primary and credible secondary sources. The countries have been grouped across four segments, as below, basis the quantification of the total scores across the drivers:.

Achiever	Countries with most favourable technical and commercial conditions for solar and perceived as most attractive for investments in solar.
Influencer	Countries with moderately favourable technical and commercial conditions for solar and perceived as moderately attractive for investments in solar.
Progressive	Countries which are at initial stages in development of a favourable ecosystem in terms of commercial feasibility and investments for solar.
Potential	Countries with untapped potential and at a nascent stage for development of favourable ecosystem.

2. Overview of the results

Owing to strong potential, robust sustainability targets, high solar irradiation and developing power infrastructure, India has emerged as a leading performer among the ISA member countries along with countries like Brazil, Saudi Arabia and United Arab Emirates. The 2020 report focuses on non-OECD member countries of the ISA. Countries have been classified in four categories based on the performance across seven drivers identified under the Ease of Doing Solar concept. The countries are arranged in alphabetical order under each classification.

Achiever				
Brazil	India	Saudi Arabia	United Arab Emirates	
Influencer				
Algeria	Costa Rica	Jamaica	Peru	Seychelles
Argentina	Dominican Republic	Maldives	Rwanda	Sri Lanka
Bolivia	Egypt	Mali	Saint Kitts and Nevis	Tanzania
Botswana	El Salvador	Mauritius	Saint Vincent and the Grenadines	Trinidad and Tobago
Burkina Faso	Fiji	Namibia		Tuvalu
Cape Verde	Ghana	Nigeria	Senegal	
Progressive				
Bangladesh	Dominica	Madagascar	Palau	Tonga
Benin	Ethiopia	Malawi	Paraguay	Uganda
Cambodia	Gambia	Mozambique	Samoa	Zambia
Côte D'Ivoire	Grenada	Nauru	Saint Lucia	Zimbabwe
Djibouti	Kiribati	Niger	Suriname	
Potential				
Burundi	Democratic Republic of the Congo	Guinea	Myanmar	Sudan
Cameroon		Guinea-Bissau	Papua New Guinea	Togo
Chad	Equatorial Guinea	Guyana	Sao Tome and Principe	Vanuatu
Comoros	Eritrea	Haiti	Somalia	Venezuela
Cuba	Gabon	Liberia	South Sudan	Yemen

3. Regional highlights

Key insights from the assessment of the ISA member countries across 3 regions highlighting the strengths and areas of improvements in each region have been presented below.

Africa (42 Member countries)

- Africa region has 14 Influencer, 12 Progressive and 16 Potential countries in the EoDS 2020 report.
- Owing to higher levels of solar irradiations in the region, countries in Africa are bestowed with large solar potential and technological feasibility. Current low levels of access to electricity in some countries present a significant opportunity for off-grid solar technologies..
- Lead performers in the region have set high and long-term targets up to 2030 and have been undertaking activities towards these goals.
- Most Progressive and Potential countries have had a reasonably better macroeconomic environment but need improvement in areas like infrastructure development and financing mechanisms.
- Aspects related to financing, policies and setting sustainability targets need more focus and offer scope for improvement to develop an effective solar ecosystem in the region.

Asia & Pacific (18 Member countries)

- Asia & Pacific region has 3 Achievers, 5 Influencer, 6 Progressive and 4 Potential countries in the EoDS 2020 report.
- Along with high levels of solar irradiation, enabling macroeconomic and financing aspects are driving the growth of Solar adoption in the region.
- Leading countries in the region have long-term visions related to infrastructure growth ably matching Solar growth and supportive investment ecosystem.
- Progressive and Potential countries of this region are still at initial stage of developing conducive policy environment and developing a robust power infrastructure to make solar more viable.

Latin America & Caribbean (20 Member countries)

- Latin America & Caribbean region has 1 Achiever, 10 Influencer, 5 Progressive and 4 Potential countries in the EoDS 2020 report.
- Similar to African region, Latin America & Caribbean region has also been bestowed with large Solar irradiation. Besides this, most countries of the region have performed well on aspects related to market maturity and macroeconomy.
- Leading performers in the region have set high and long-term solar targets up to 2050 and have been undertaking activities towards these goals. Leaders also encourage privatization and have long-term visions related to infrastructure growth and associated investment plans.
- For the Progressive and Potential countries, policy enablers and infrastructure development have been identified as key areas of improvement. Leaders in the region have implemented supportive policies like feed-in-tariff, net metering, etc. to encourage participation in the sector.

Note: Results from the assessment of countries across the drivers have been presented in the Appendix 1 of the document

4. Country assessment across drivers

Key insights from the assessment of member countries' across seven drivers drawn have been presented below:

Macroeconomy

- Robust GDP Growth rate and low country risks have been a key differentiators among countries evaluated on Macroeconomy.
- Other key differentiators include Investor protection initiatives and the extent of political stability in the individual countries.
- Most Influencer countries have initiated structural reforms to strengthen economic competitiveness and establishing more favourable environments to promote investments.
- Most Progressive countries have a strong FDI growth trend and with a rising GDP growth trend though the size of the GDP is comparatively lower.
- The Potential countries have low GDP size with the better ranked ones having a comparatively higher GDP growth rate.

Policy enablers

- Robust policy mechanisms to support renewables, sustainability targets and financial incentives are key scoring aspects on policy enablers.
- In addition, countries scoring high have created favourable downstream policy framework for renewable energy such as renewable purchase obligations (RPO), emission reduction targets and tax incentives for solar developers.
- Most Influencer countries may not have demonstrated significant actions on policy front but have mandated clear policies to promote clean energy primarily through private participation
- Progressive countries are in the initial phases of renewable specific policy formulation but have acknowledged the role of renewable energy in the country's developmental agenda.
- The Potential countries have been focussing on introducing favourable policies to promote renewable energy with limited on ground implementation.

Technological feasibility

- High levels of Global Horizontal Irradiance (GHI) and normative capacity utilisation factors are the key differentiators in Technological Feasibility across the four evaluation segments.
- Countries in Africa and Middle East are bestowed with naturally high levels of solar irradiation have scored higher in Technological Feasibility and hence have score comparatively higher.
- Existence of energy storage projects have also helped in improving technological feasibility scores for the leading countries.
- Another key differentiating criterion has been the extent of use of renewable to enhance electricity access in countries that are still not hundred percent electrified.

Note: Results from the assessment of countries across the drivers have been presented in the Appendix 2 of the document

Market maturity

- Countries with high levels of access to electricity, presence of a structured and mature power markets along with a robust share of operational solar projects have scored high in Market Maturity.
- Another key differentiating factor has been the adoption of competitive bidding process for awarding power projects by the countries.
- Most Influencer countries have already achieved a significant level of electricity access and have a strong focus on opening the power market through private participation.
- The Potential and the Progressive countries are differentiated, primarily, with the levels of electricity access and the extent of initiatives to transition towards a comparatively mature power market in future.

Infrastructure

- Looking into the intermittency and other operational challenges related to solar integration with the grid, the need for robust infrastructure is indispensable. The Achiever countries have taken a planned approach towards strengthening the national grid infrastructure with a focus on integrating solar.
- Leading countries have also encouraged private participation in not only solar infrastructure development but also in strengthening grid infrastructure privatisation to fast-track infrastructure development.
- Most Influencer countries have taken concrete steps towards developing a long-term infrastructure development plan with renewables at its core.
- Progressive and Potential countries are in different stages of building and operating a robust, high voltage integrated transmission grid to support better integration of solar in the long run.

Financing

- Low cost of financing, better accessibility to financial instruments and presence of quality banking system are the key reasons for countries which perform better on financing. Extent of private credit, by domestic banks, is also an enabling differentiator.
- Most Achievers have set up specialized institutions to develop targeted incentives for the industry, climate funds, tax incentives, grants, financial programs and cooperation plans to encourage capital flows in the sector.
- Most Influencer countries present a stable financial outlook and a strong financial ecosystem which is moving towards the levels of Achievers.
- The Potential countries are having certain levels of financial institutional setup especially for power sector financing though it is primarily focusing on government financing or from Developmental Financing Institutions (DFIs).
- There is significant dependence on financing from DFIs in most Potential countries. The institutional mechanism for project financing is still in the evolution stage.

Note: Results from the assessment of countries across the drivers have been presented in the Appendix 2 of the document

Energy imperatives

- The existing per capital electricity consumption, historical growth in electricity demand and current solar installed capacities are the key differentiating parameters under energy imperatives. The Achiever countries have scored maximum on this criterion.
- Influencer countries have demonstrated growth in electrical demand and solar installed capacities. In addition to the high-income economies, a few developing countries have also performed relatively better in energy imperatives owing to their aggressive solar deployment in recent years mostly in off-grid solar primarily on account of rapid electrification
- The Progressive countries have a strong potential of off-grid as well as on-grid solar but the same is yet to be explored. Owing to low electrifications levels, the demand growth is not strong but is expected to grow once electrification starts even using off-grid solar plants.
- Most Potential countries have had a good demand growth but score low in solar deployment over the years.

5. Way forward


The 2020 edition of the EoDS report focuses on developing a robust and comprehensive framework for country evaluations. Future editions will aim towards further strengthening stakeholder consultations through regional and country level engagements which are quintessential in further reinforcing the EoDS framework. It will also enable seamless and more updated data collection for the upcoming editions of the EoDS report.

Going forward, greater emphasis will be given to online dashboards for better visualisation and user interaction which will enable the ISA in moving from a paper based report to interactive analysis. Transition towards online report is expected to further facilitate greater participation from member countries. It will also provide a more dynamic experience for member countries by adopting features such as real time data sharing by members to faster response on the draft analysis and reporting.

The online mode of the EoDS report will also ensure agility and adaptability to enable inclusion of new parameters and indicators in the framework as well as reducing the annual reporting frequency to half yearly or even quarterly reporting.

The 2020 report classifies countries in 4 broad categories, i.e. Achiever, Influencer, Progressive and Potential. As the EoDS framework matures, the future editions will evolve towards absolute rankings that would present a better country to country comparison framework leading to higher response from countries to work towards improving individual rankings.

Further, few additional features are planned in the future editions such as country profile matching to draw finer regional and county-level insights and developments where countries would be able to draw more objective and actionable insights from the practises adopted by high performers. The platform will aim to accommodate new opportunities listing and development review articles/ stories providing more visibility for the member countries. The EoDS concept also has the potential to evolve as a base case to plan Technical Assistance for the ISA member countries to further enhance their solar investment environment.



Approach and methodology



1. Overview

1.1 Framework for Ease of Doing Solar 2020 report



A. Guiding principles & scoring methodology

How it is done?

- ▶ Review of past similar studies to assess various methodologies
- ▶ Parameters (KRA) and KPIs identification, selection and formulation of rationales
- ▶ Sources-based classification of KPIs
- ▶ Criticality assessment and assigning weights for quantitative analysis

Key outputs

- ▶ Drivers & KPIs
- ▶ Rationales and classification

B. Scoring model & data research

How it is done?

- ▶ Secondary data collection (based on credible data sources)
- ▶ Primary data collection (NFPs and country-focused research)
- ▶ Identify and address data gaps and key roadblocks for each country
- ▶ Determining weightages for drivers – learnings from similar studies

Key outputs

- ▶ Weights for the KRAs and KPIs
- ▶ Validated data set and scoring model for the analysis

C. Data sensitization and verification

How it is done?

- ▶ Consensus building with stakeholders
- ▶ Preparation of country specific reports
- ▶ Country specific consultations

Key output

- ▶ Ease of Doing Solar 2020 report

1.2 Classification based on overall scores

Achiever

Countries with most favourable technical and commercial conditions for solar and perceived as most attractive for investments in solar.

Influencer

Countries with moderately favourable technical and commercial conditions for solar and perceived as moderately attractive for investments in solar.

Progressive

Countries which are at initial stages in development of a favourable ecosystem in terms of commercial feasibility and investments for solar.

Potential

Countries with untapped potential and at a nascent stage for development of favourable ecosystem.

Ranking framework shall evolve from “Classification” to “Absolute ranking” over the years as the EoDS concept matures and used as a guiding tool for benchmarking by stakeholders



2. Guiding principles

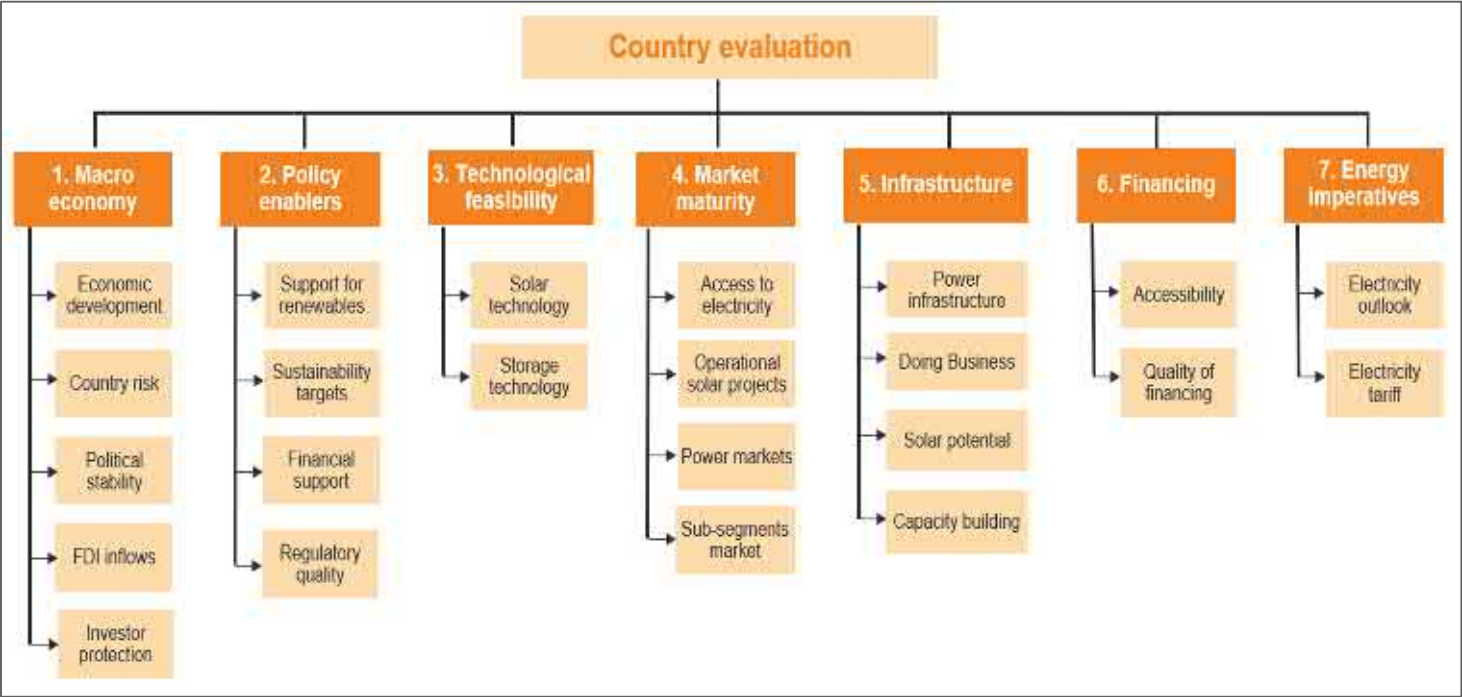
2.1 Guiding principles for the EoDS 2020 report

The EoDS report has country-specific snapshots and analysis that assess a country’s preparedness in attracting and sustaining investments in the solar space. The analysis has been planned to encompass multiple solar segments:

- 1) Grid connected solar
- 2) Solar mini-grids
- 3) Solar rooftop
- 4) Solar home systems

The assessment has been carried out for each of the member countries across seven key drivers: macroeconomy, policy enablers, technical feasibility, power market maturity, infrastructure, financing, and energy imperatives. Nearly 38 indicators have been used to develop the analysis of these parameters and drivers. Each of these parameters demonstrates the Ease of Doing Solar in the ISA member countries.

The guiding principles– drivers, parameters and indicators- have been developed based on the review of similar studies like 1). Ease of Doing Business by the World Bank; 2). State Investment Promotion Agency Framework by Invest India; 3). Global Investment Competitiveness Report by the World Bank; 4). Renewable Energy Country Attractiveness Index by EY; 5). Regulatory Indicators for Sustainable Energy (RISE) Study and the review of multiple reports and analysis from 1). International Energy Agency (IEA); 2). International Renewable Energy Agency (IRENA); 3). Lighting Global; 4). GOGLA; 5). World Bank and many others. The basic skeleton of the evaluation is similar to the pilot study conducted last year.



Guiding principles – drivers & evaluation parameters considered for EoDS 2020 analysis



3. Understanding the drivers

3.1 Understanding the drivers

The table below provides details of each of the seven drivers of the EoDS 2020 framework. Key parameters are also listed which were used to analyse the performance of the countries against the drivers.

Drivers	Description	Parameters
Macroeconomy	Macroeconomic parameters shall be evaluated to understand the economic strength, in terms of size of the economy, growth prospects and maturity. The macroeconomic driver also helps the stakeholders assess the market and associated risks at a macro-level. Strong macroeconomic indicators, for a country, signify business opportunities for the investors/ developers and also translates to an optimistic view of the future of solar sector in the country.	<ul style="list-style-type: none">• Economic development• Country risk• Political stability• FDI inflow• Investor protection
Policy enablers	Effective policies and quality of regulatory ecosystem act as key enablers for growth in any sector. This is an important driver for the governments and investors to understand the road blocks limiting the growth of solar segment in the country. Government initiatives, such as fiscal incentives and subsidies for solar energy deployment, not only helps in attracting new investments in the sector but also minimises the risks associated with such projects.	<ul style="list-style-type: none">• Support for renewables• Sustainability targets• Financial support mechanisms• Regulatory quality
Technological feasibility	Analysis of various technical aspects is of utmost importance in order to determine the feasibility and cost-effectiveness of a solar project. Indicators such as solar irradiation in the region and capacity utilisation factor impact the viability of solar Projects.	<ul style="list-style-type: none">• Solar irradiation levels• Storage technology
Market maturity	Market maturity is a critical driver for the investors and project developers to have a better understanding of the overall electricity market in the country. A mature market ensures minimum risks and high certainty of returns to the investors, but also offers high degree of competition. On the other hand, a less mature market may offer huge opportunities for the new entrants, but with a higher risk quotient.	<ul style="list-style-type: none">• Access to electricity• Operational solar projects• Power markets• Market for solar sub-segments

Drivers	Description	Parameters
Infrastructure	Adequate infrastructure is essential to support the development of solar projects. Availability of adequate transmission & distribution infrastructure/ network, efficiency of power utilities and capacity building activities are essential components of infrastructure that translates to the success of solar industry in the country.	<ul style="list-style-type: none"> • Power infrastructure • Ease of Doing Business • Solar potential • Capacity building
Financing	Analysis of domestic banking ecosystem is essential to understand business viability and risks in a country. Strong financial ecosystem and innovative financial products are important factors for large scale solar deployment. While availability of appropriate financing models is essential to attract private investments, low cost of financing is also critical for the commercial viability of the projects and off-grid products deployment.	<ul style="list-style-type: none"> • Accessibility to financing • Quality of banking ecosystem
Energy imperatives	This parameter evaluates the total electricity landscape in terms of consumption, tariffs and installed capacities. The current status of off-grid solar products is also analysed, which can help investors identify the country's potential for off-grid installations.	<ul style="list-style-type: none"> • Electricity sector outlook • Electricity tariffs



4. Determining weightages for drivers

4. Determining weightages for drivers

Assigning weights for drivers forms a critical part of the study. It captures relative importance of the drivers and helps in arriving at the overall classification of the countries. The weightages for the drivers in the EoDS 2020 report have been determined based on the learnings from similar studies and consultations with domain experts.

Learnings from similar studies

- ▶ Multiple similar studies and their mechanisms for weightage determination have been analysed to understand existing methodologies in the system.

Sample analysis:

- ▶ State Rooftop Solar Attractiveness (SARAL), 2019 Index covering 31 Indian states: Basis the importance/ ranks given by different stakeholders, the weightages to the parameters were decided.
- ▶ Ease of Doing Business, 2020 by the World Bank uses a direct method: Weighing all topics equally and giving equal weight to each component within each topic.

Ease of Doing Business		SARAL – State Rooftop Solar Attractiveness Index			
Parameters	Weightage	Parameters	Weightage	Sub-parameters	Weightage
Starting a business	9.09%	Robustness of Policy framework	20%	Level of policy support	33.3%
Dealing with construction permits	9.09%			Billing Mechanism	33.3%
Getting electricity	9.09%			Covenants	33.3%
Registering property	9.09%	Effectiveness of policy support/ implementation	26.3%	Ease of application	60%
Getting credit	9.09%			Power offtake attractiveness	10%
Protecting minority investors	9.09%			Impact of Policy	10%
Paying taxes	9.09%			State of affair of DISCOMs	20%
Trading across borders	9.09%	Investment climate	16.8%	Driver for rooftop solar uptake	33.3%
Enforcing contracts	9.09%			Maturity of the Market	33.3
Resolving insolvency	9.09%			Ease of financing	33.3%
Labour market regulation	9.09%	Consumer experience	26.3%	Pre-installation consideration	30%
Total	100%			During installation	40%
				Post-installation experience/costs	30%
				Business enablers	37.5%
		Business ecosystem	10.6%	Fiscal and Regulatory Environment	37.5
				Economic outlook	25.0%
Total	100%	Total	100%		100%



5. Data research

5.1 Data research – secondary

- ▶ Database-based research has been carried out for major set of Indicators. Competent databases from World Bank, IMF, UN Foundation, IEA, IRENA, etc. have been used.
- ▶ Country-focused research has been carried out to address data gaps for a small set of countries and to develop insights on member countries.

5.2 Data research – primary

A questionnaire was developed and circulated among the National Focal Points (NFPs) of the member countries. A part of the questionnaire is appended below:

S.No.	Key Indicators	Response	UoM	Source of Information (if applicable)	Year of Information	Remarks
1	Does the country have Renewable Energy Targets?		Yes/No			
	Are the following mechanisms available for Renewable Energy?					
	Accelerated Depreciation of Renewable Energy Assets		Yes/No			
	Subsidy provisions for Renewable Energy		Yes/No			
	Feed-in Tariffs for Renewable Energy Supply to the Grid		Yes/No			
	Revenue Based Incentives		Yes/No			
2	Presence of Net metering/ Gross metering policies and regulations		Yes/No			
3	Is there a mandate for Renewable Purchase Obligations (RPO) for Distribution utilities/ Retailers/ DSOs?		Yes/No			
	Are there specific policies/ schemes for the following Solar?					
	Solar Rooftop		Yes/No			
	Solar Mini Grids		Yes/No			
	Solar standalone systems		Yes/No			
4	Utility scale Solar		Yes/No			
	Are following incentives available?					
	Import duty waivers for Solar Developers		Yes/No			
5	Tax waivers for manufacturers of raw materials (modules, off grid appliances, SHS, etc.)		Yes/No			
6	Are there Government Trainings/ certifications/ academic programs focusing on Solar industry for people?		Yes/No			
	Kindly provide the following information to understand the Institutional Structure in the Power sector.					
	Have the Power sector operations been segregated into Generation, Transmission & Distribution?		Yes/No			
	Is the Power sector regulated?		Yes/No			
	Are there regional/ national Load dispatch centres for power grid operations?		Yes/No			
	Are there Technical Standards pertaining to Power equipments?		Yes/No			
	Does the country have a grid code that clearly specifies connection procedures for ensuring Grid operations?		Yes/No			
7	Is there a dedicated Nodal agency for Renewable Energy?		Yes/No			
8	Do the players in the Power industry have access to any Power exchange/ Power trading platform?		Yes/No			

Procedure:

- ▶ Questionnaire was prepared in English, French and Spanish languages to facilitate prompt data collection from primary sources – NFPs.
- ▶ Responses were sought as qualitative information (eg.: Yes/ No) and data-based information for nearly 17 and 28 Indicators respectively.
- ▶ The research is based on data for the year 2019. However, in instances where data was not available for 2019, earlier years' data was used.



Country reports

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5	Bolivarian Republic of Venezuela	37	31	Guinea	89
6	Botswana	39	32	Guinea-Bissau	91
7	Brazil	41	33	Guyana	93
8	Burkina Faso	43	34	Haiti	95
9	Burundi	45	35	India	97
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19	Djibouti	65	45	Myanmar	117
20	Dominica	67	46	Namibia	119
21	Dominican Republic	69	47	Nauru	121
22	Egypt	71	48	Niger	123
23	El Salvador	73	49	Nigeria	125
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26	Ethiopia	79	52	Paraguay	131

S.no.	ISA member countries	Page number	S.No.	ISA member countries	Page number
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54	Plurinational State of Bolivia	135	68	Sudan	163
55	Republic of the Gambia	137	69	Suriname	165
56	Rwanda	139	70	Togolese Republic	167
57	Saint Kitts and Nevis	141	71	Tonga	169
58	Saint Lucia	143	72	Trinidad and Tobago	171
59	Saint Vincent and the Grenadines	145	73	Tuvalu	173
60	Samoa	147	74	Uganda	175
61	Sao Tome and Principe	149	75	United Arab Emirates	177
62	Saudi Arabia	151	76	United Republic of Tanzania	179
63	Senegal	153	77	Vanuatu	181
64	Seychelles	155	78	Yemen	183
65	Somalia	157	79	Zambia	185
66	South Sudan	159	80	Zimbabwe	187

What to look for in each section of the country report?

Country snapshot

This section primarily covers country's as-is scenario with respect to the power sector indicators such as annual electricity consumption, access to electricity, installed solar capacity, Ease of doing business score, and growth of solar installed capacity.

Power trends

This section depicts overall power sector trends of the country through yearly trends in cumulative solar installed capacity, access to electricity, consumer mix and overall electricity consumption. Consumer mix is not shown for a few countries where data was not available.

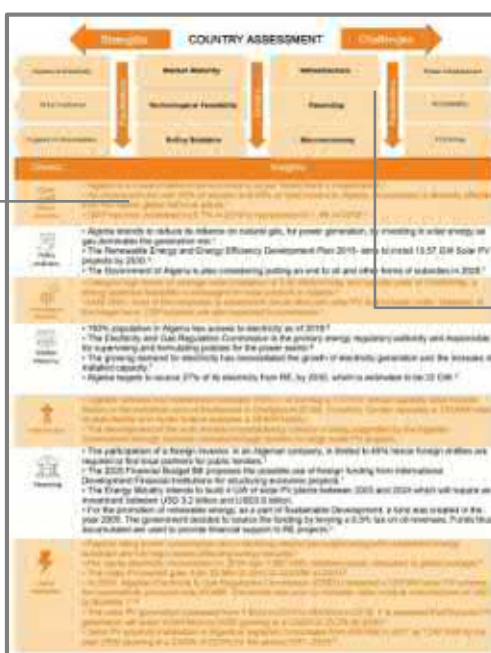
Qualitative assessment

This section provides a crisp qualitative assessment of the country across seven drivers. References for the remarks under this section are provided in the Appendix of this report.

Page 1



Page 2



EoDS performance

This section indicate overall classification of the country (i.e. Achiever, Influencer, Progressive and Potential). It also shows countries performance across seven drivers as detailed out in the approach and methodology section of this report.

Installed capacity drill down

This section depicts electricity mix of the country (in capacity terms) along with the drill down on capacity of solar sub-segment such as solar mini-grid, solar home systems etc.

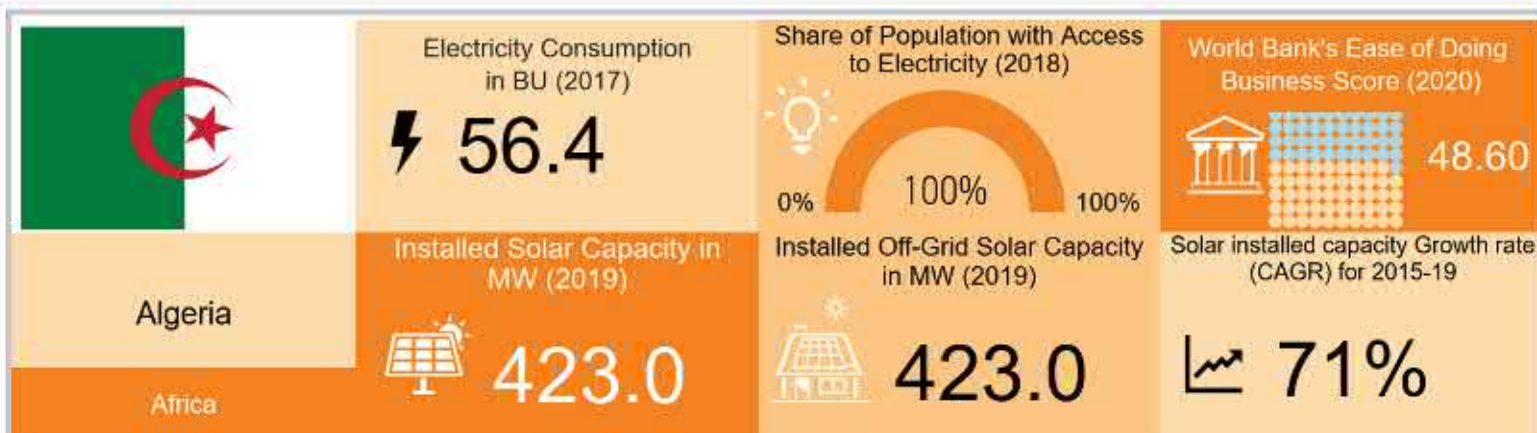
Performance in the sub-region

For the countries where installed capacity drill down was not available, EoDS classification of the neighbouring countries is depicted in this section.

Strengths & challenges

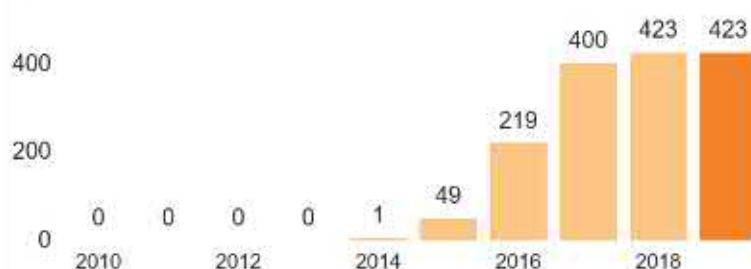
This section provides insights developed from the overall assessment of the member countries across seven drivers. Relative strengths (in orange) and challenges (in grey) have been identified for the country based on performance comparison within the country across seven drivers and various parameters within those drivers.

Note: Extensive list of sources are provided in the Appendix -3 of the report.

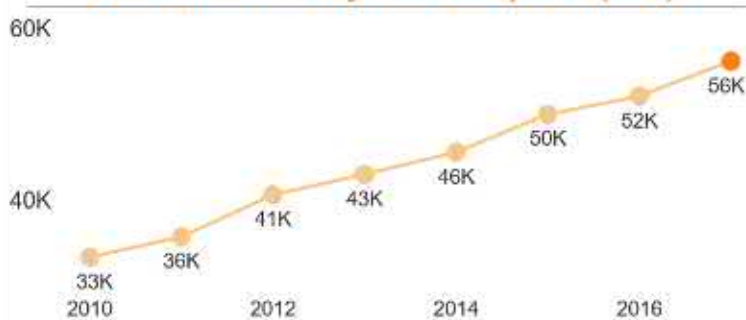


Power Trends

Cumulative Solar installed Capacity (MW)

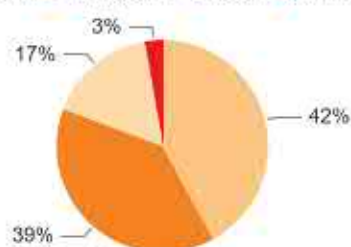


Overall Electricity Consumption (MU)

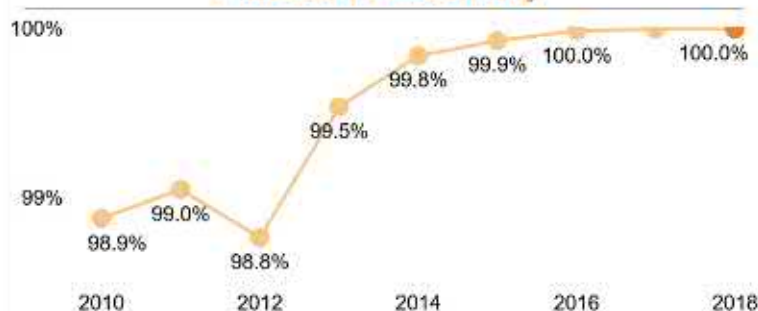


Consumer Mix

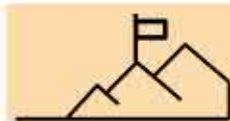
Commercial & Industrial Residential Others Agricultural



Access to Electricity

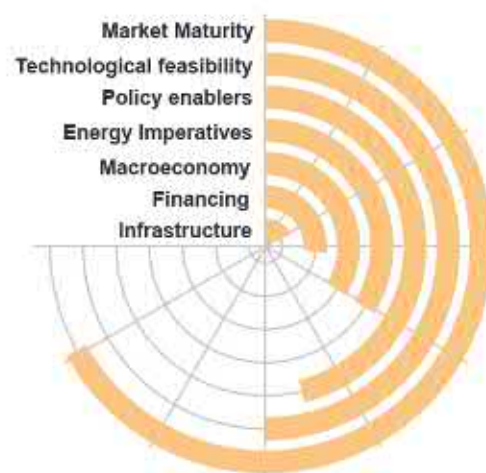


Ease of Doing Solar Classification

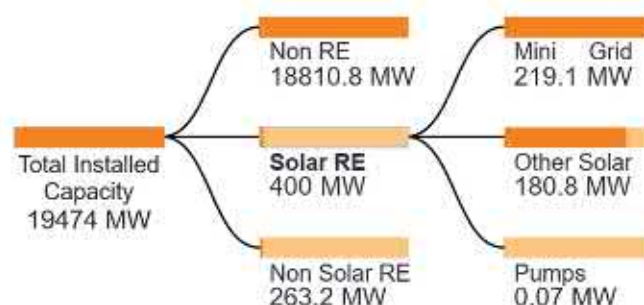


Influencer

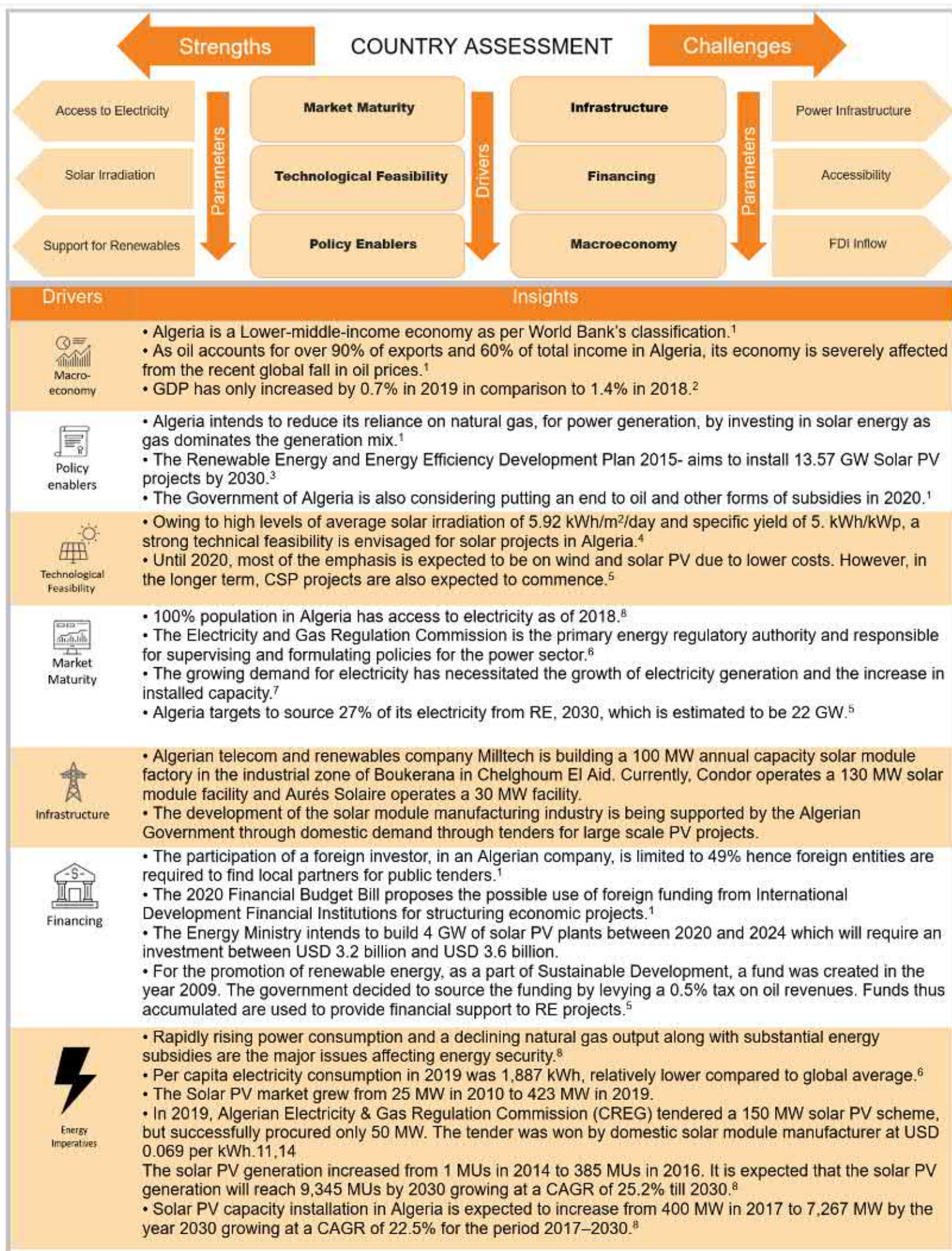
Performance against 7 Drivers

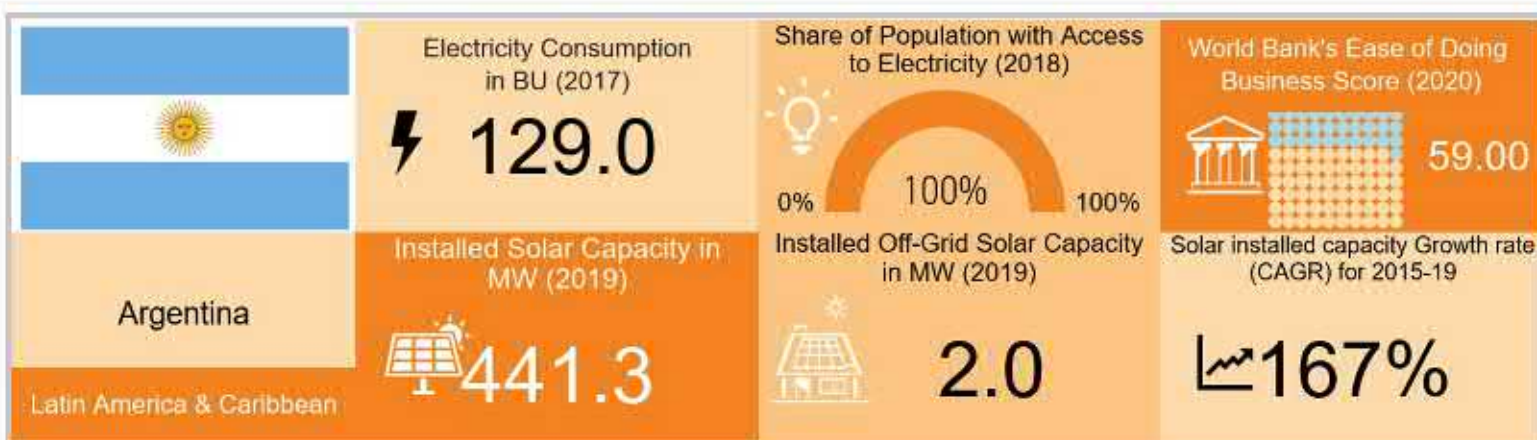


Installed Generation Capacity by Source



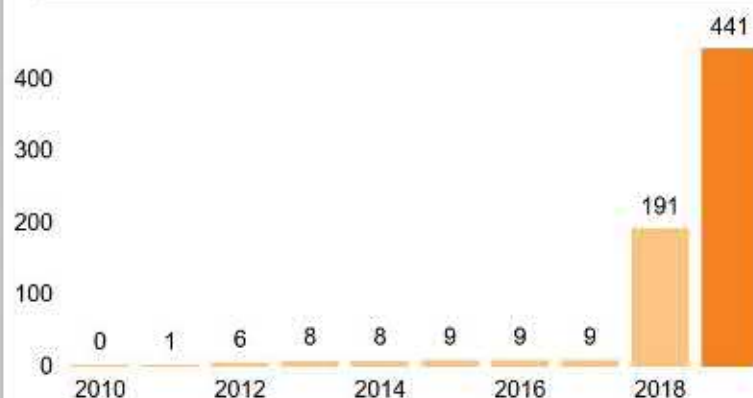
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



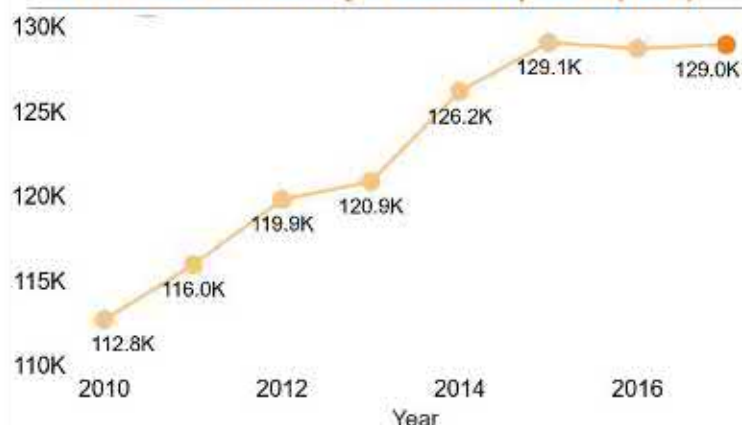


Power Trends

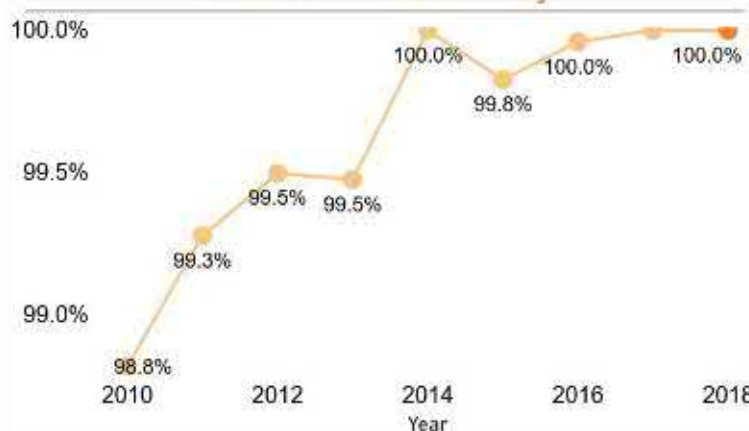
Cumulative Solar installed Capacity (MW)



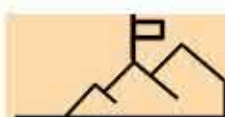
Overall Electricity Consumption (MU)



Access to Electricity

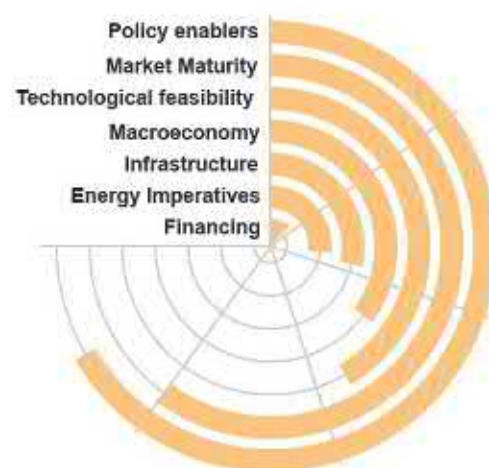


Ease of Doing Solar Classification



Influencer

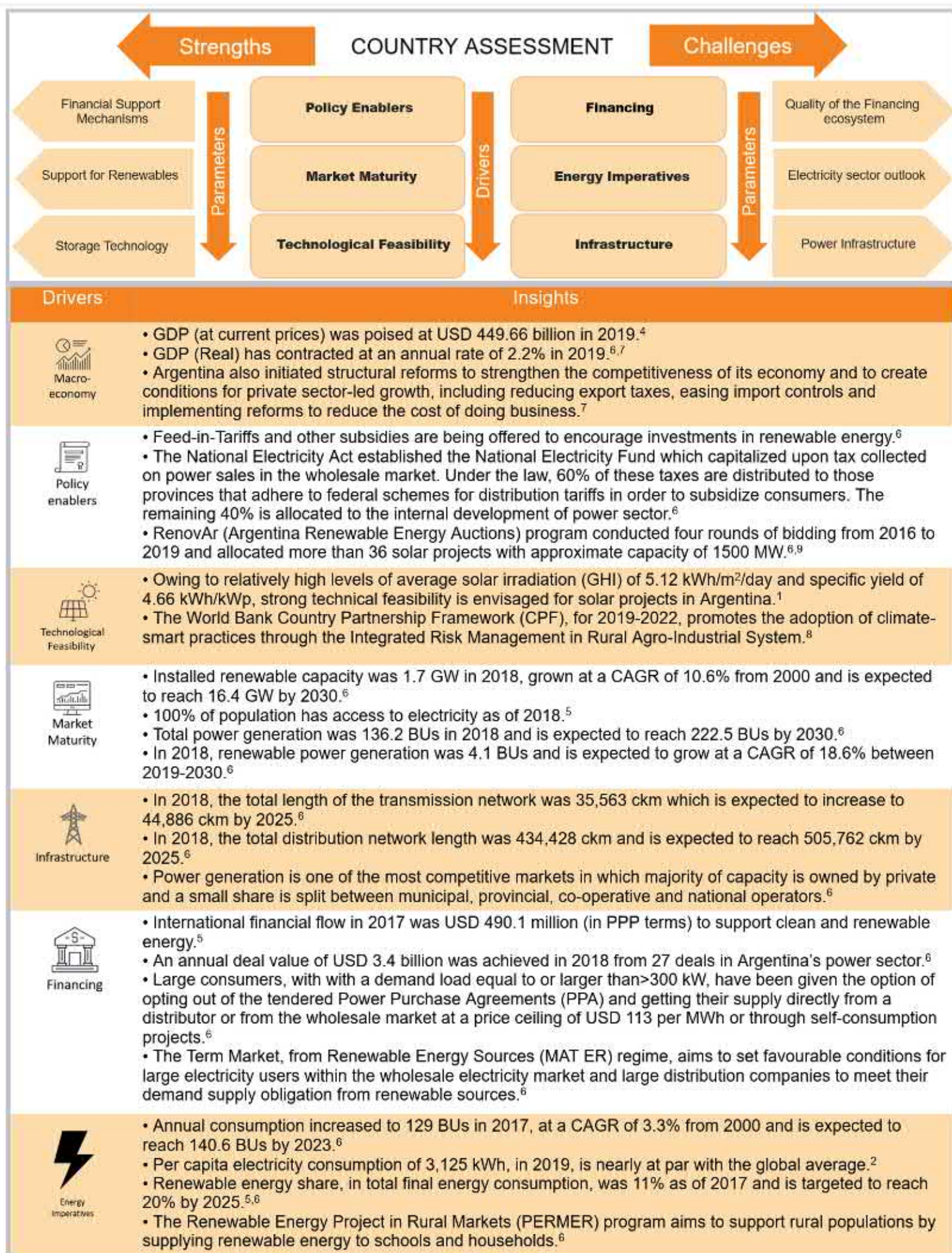
Performance against 7 Drivers

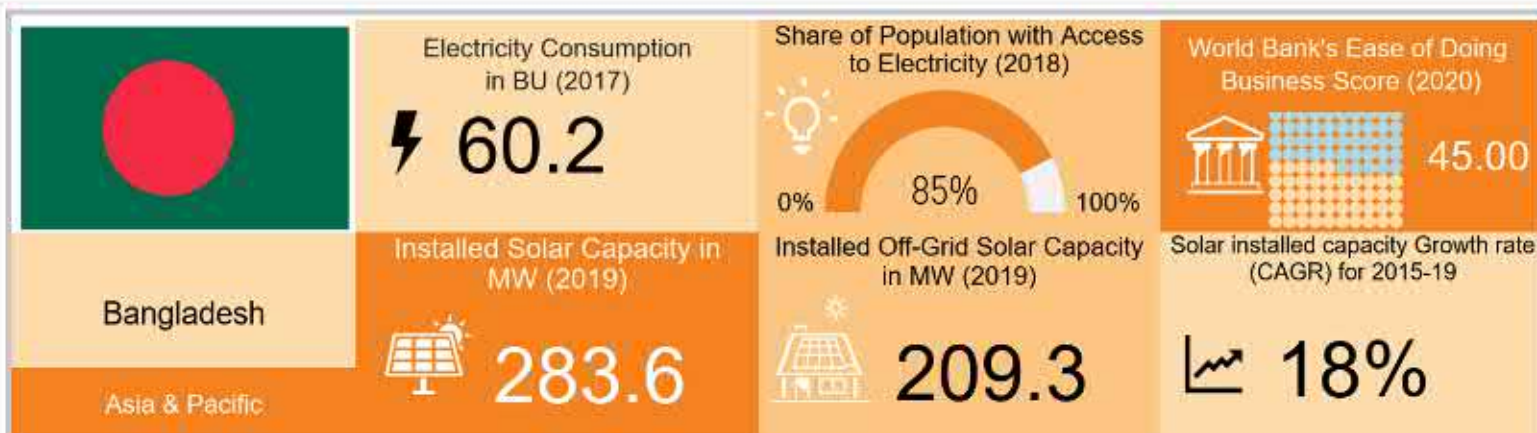


Sub-regional standing



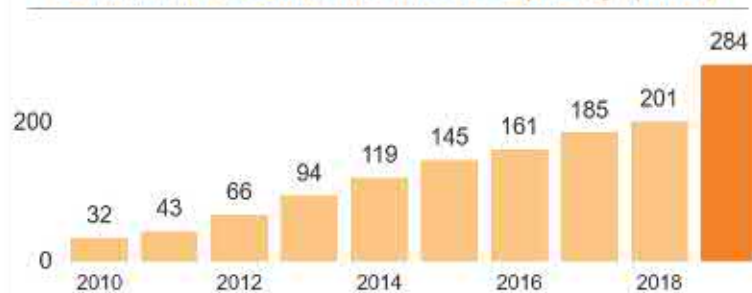
● Neutral
 ● Beignner
 ● Progressive
 ● Influencer



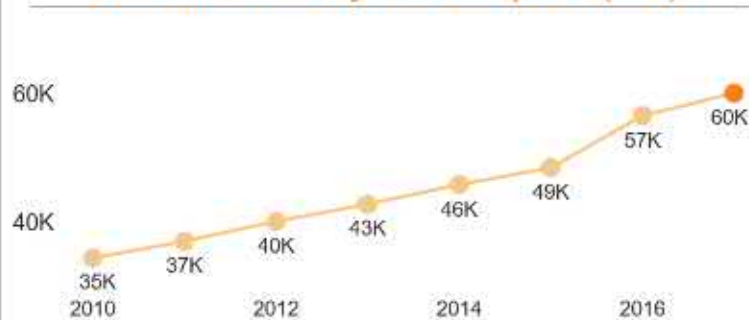


Power Trends

Cumulative Solar installed Capacity (MW)

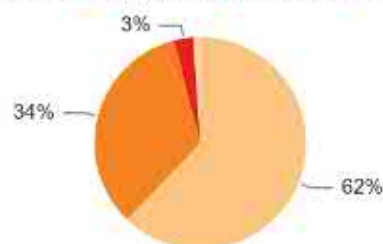


Overall Electricity Consumption (MU)

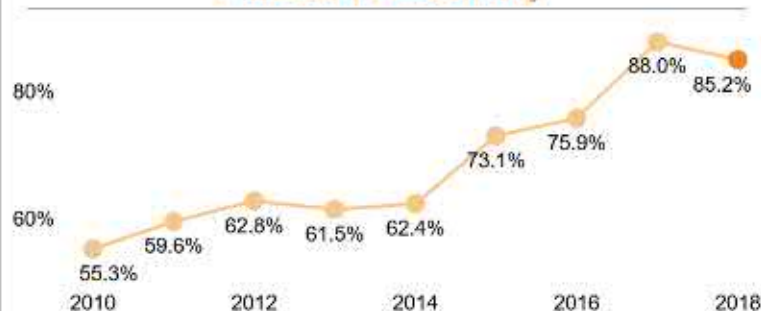


Consumer Mix

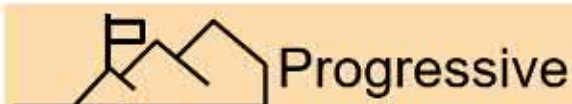
Commercial & Industrial Residential Agricultural Others



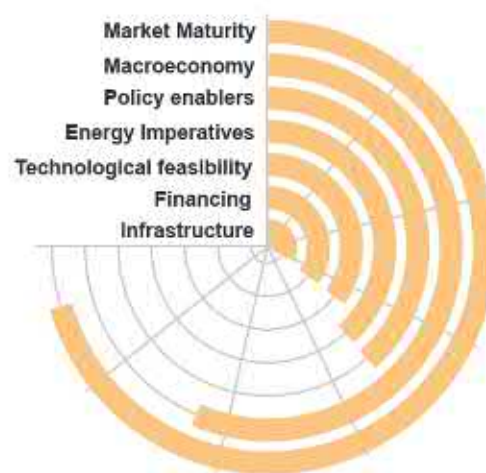
Access to Electricity



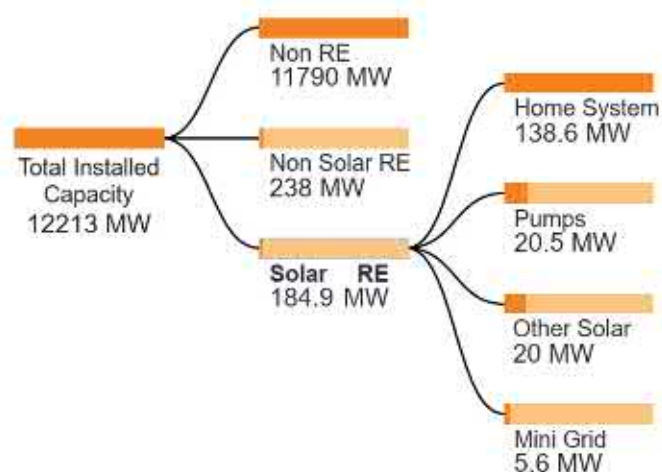
Ease of Doing Solar Classification



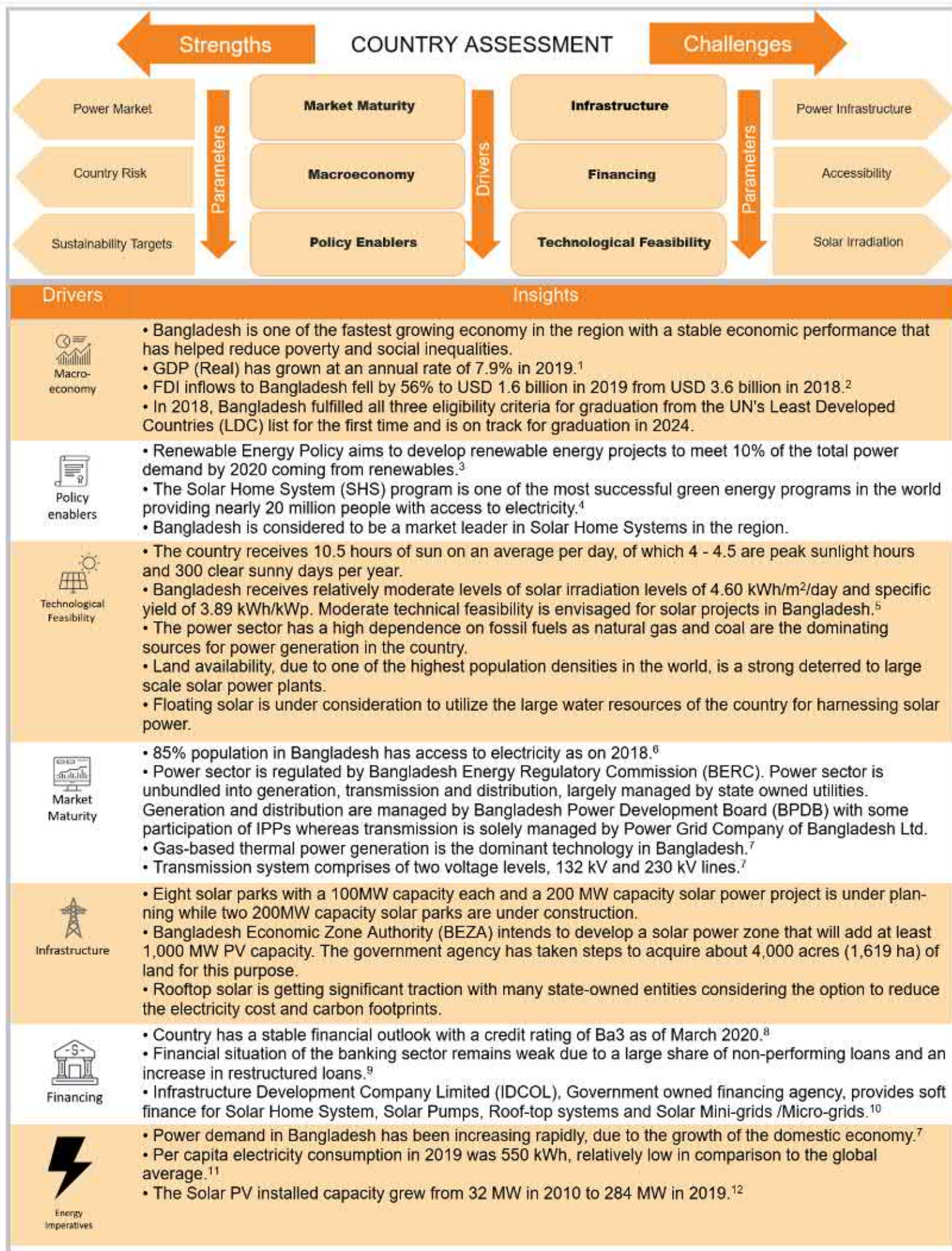
Performance against 7 Drivers



Installed Generation Capacity by Source



Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.





Benin

Africa

Electricity Consumption
in BU (2017)

⚡ 1.2

Installed Solar Capacity in
MW (2019)



2.9

Share of Population with Access
to Electricity (2018)



0% 42% 100%

Installed Off-Grid Solar Capacity
in MW (2019)



1.5

World Bank's Ease of Doing
Business Score (2020)



52.40

Solar installed capacity Growth rate
(CAGR) for 2015-19



25%

Power Trends

Cumulative Solar installed Capacity (MW)

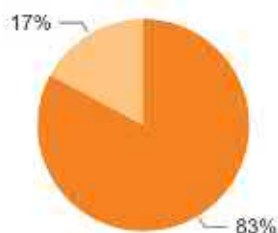


Overall Electricity Consumption (MU)

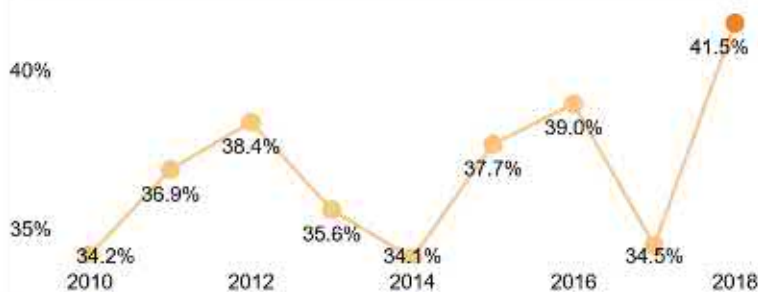


Consumer Mix

● Residential ● Commercial & Industrial ● Agricultural ● Others



Access to Electricity

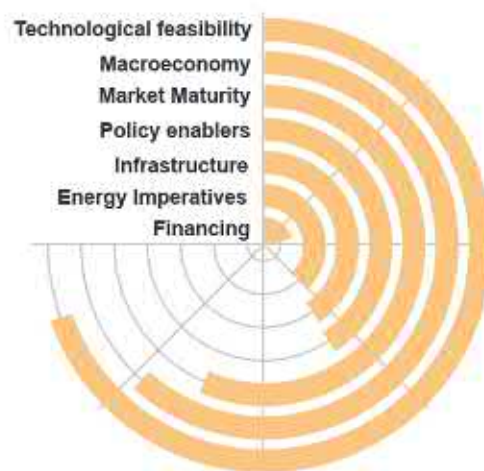


Ease of Doing Solar Classification

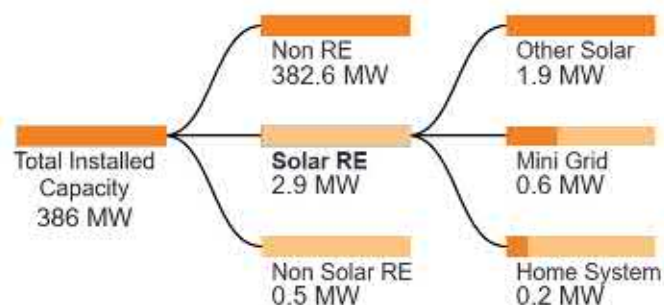


Progressive

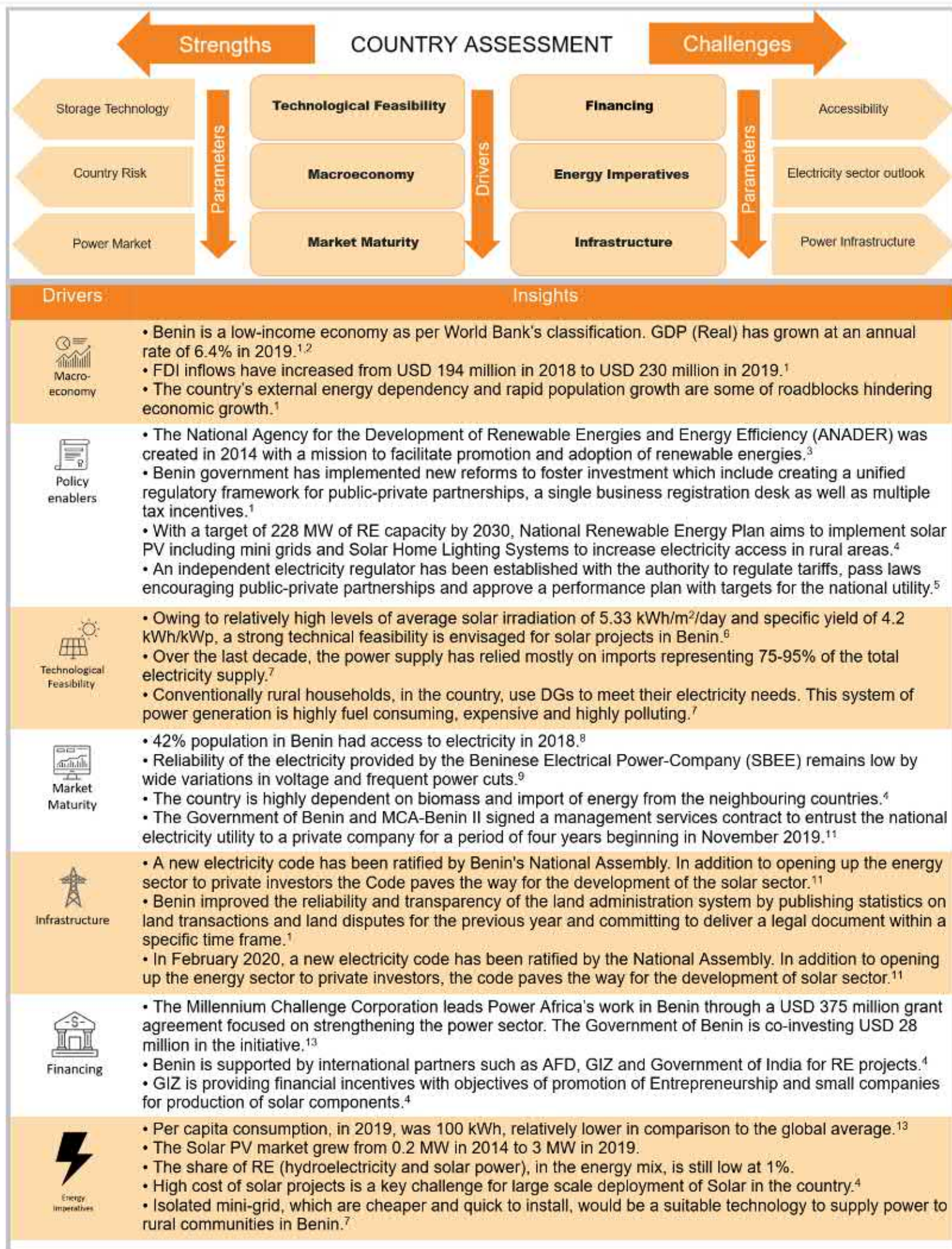
Performance against 7 Drivers



Installed Generation Capacity by Source



Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.





Bolivarian Republic of
Venezuela

Latin America & Caribbean

Electricity Consumption
in BU (2017)

⚡ 81.2

Installed Solar Capacity in
MW (2019)



5.3

Share of Population with Access
to Electricity (2018)



0% 100% 100%

Installed Off-Grid Solar Capacity
in MW (2019)



3.0

World Bank's Ease of Doing
Business Score (2020)



30.20

Solar installed capacity Growth rate
(CAGR) for 2015-19



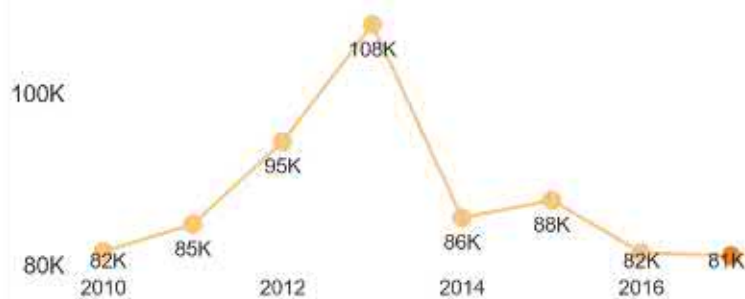
4%

Power Trends

Cumulative Solar installed Capacity (MW)

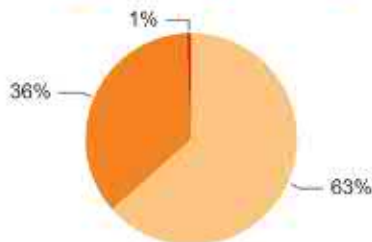


Overall Electricity Consumption (MU)

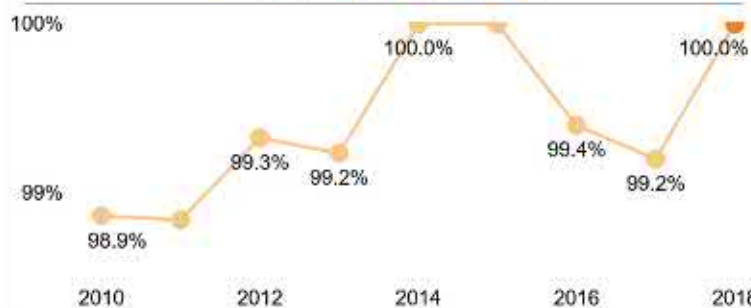


Consumer Mix

Commercial & Industrial Residential Agricultural Others



Access to Electricity

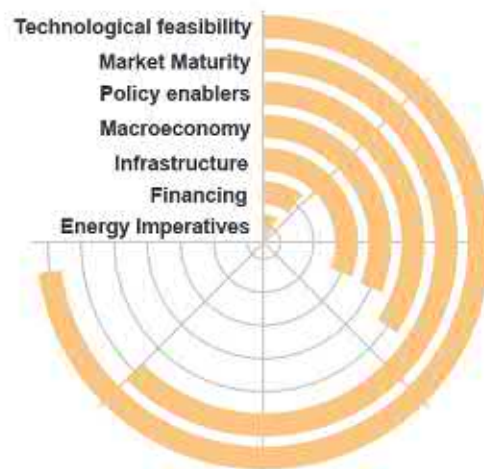


Ease of Doing Solar Classification

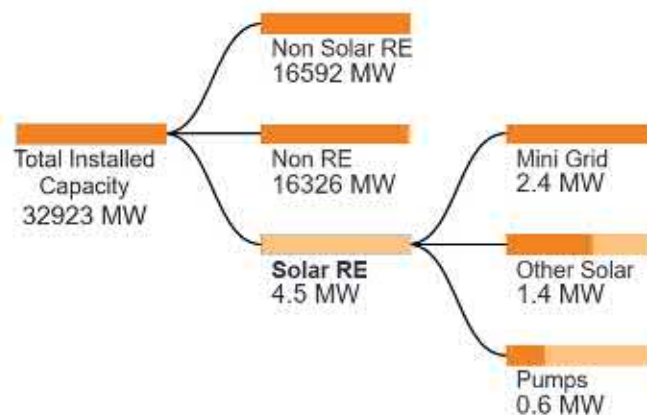


Potential

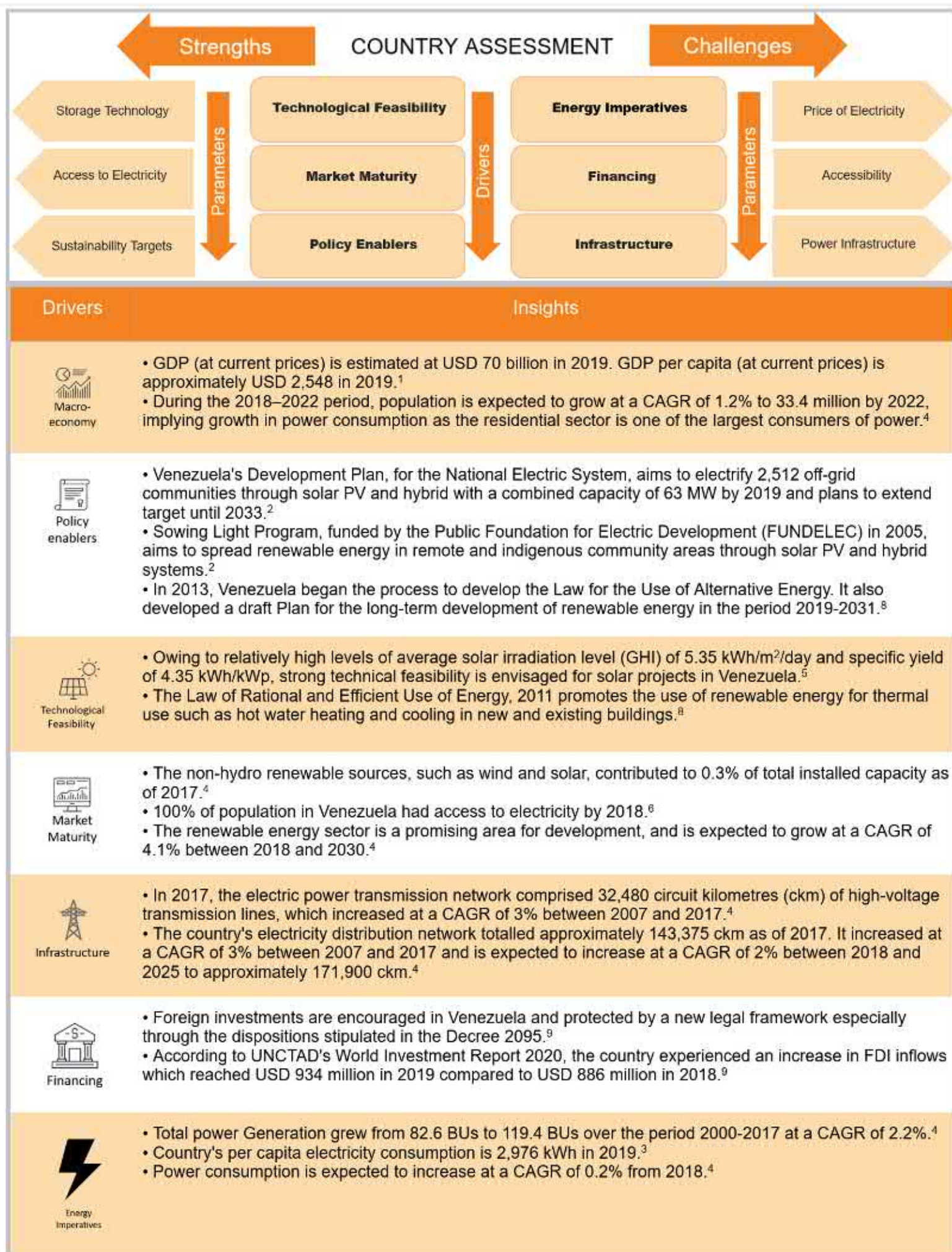
Performance against 7 Drivers

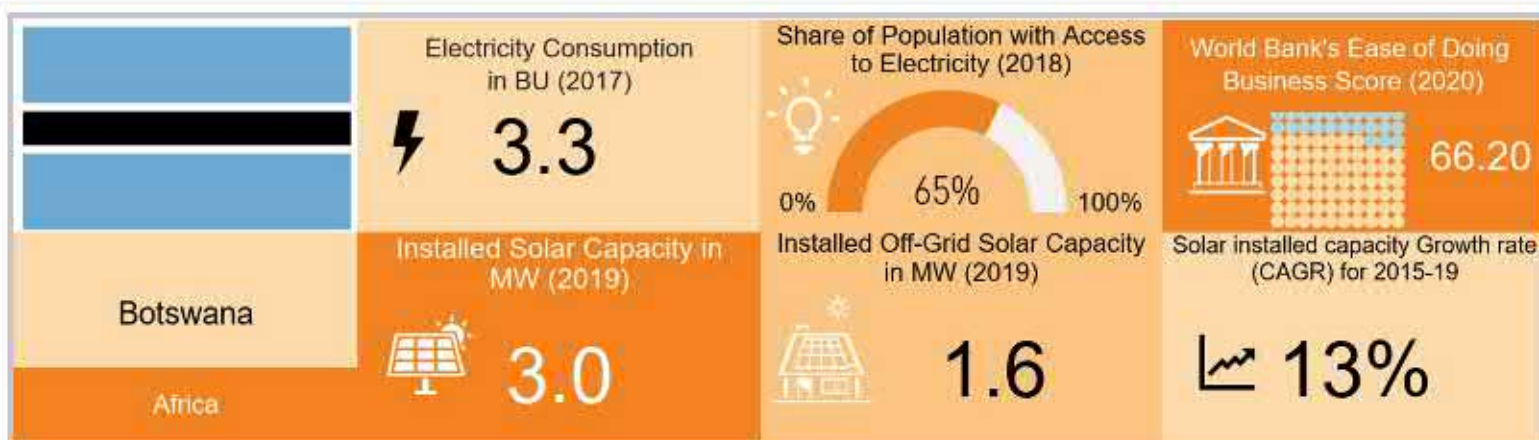


Installed Generation Capacity by Source



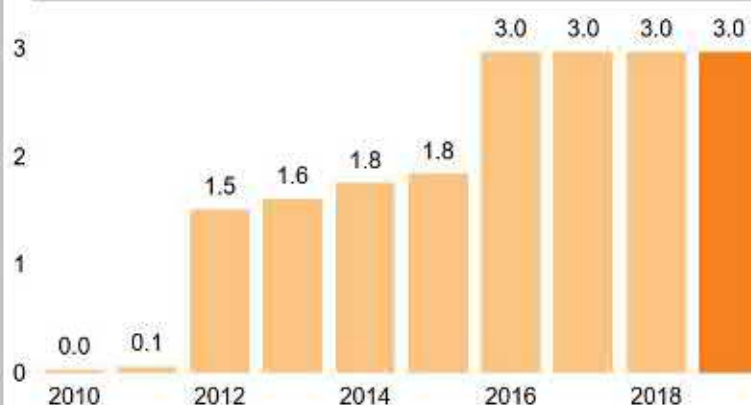
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



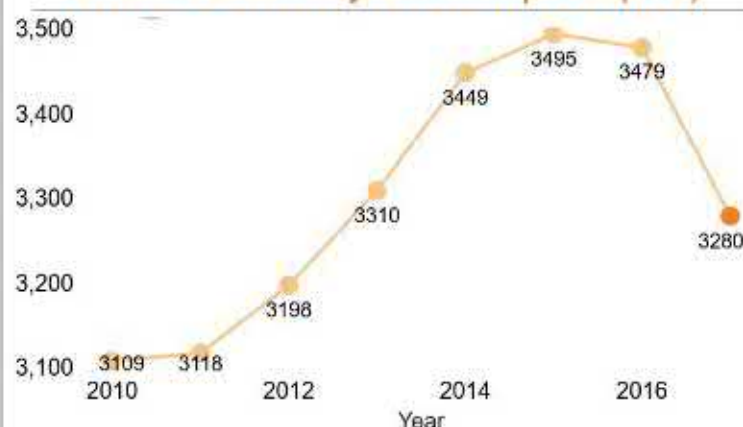


Power Trends

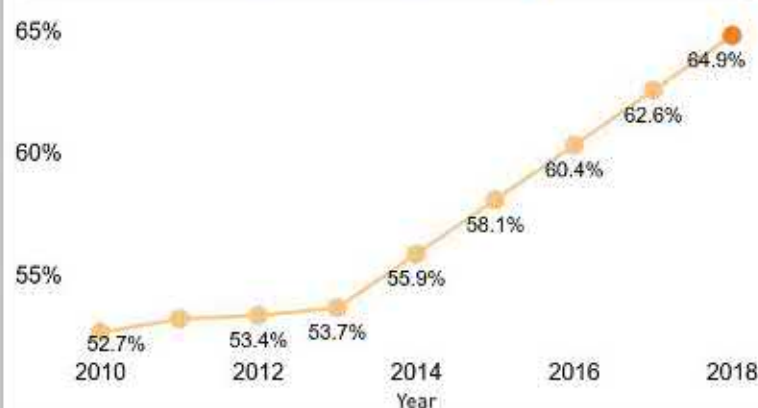
Cumulative Solar installed Capacity (MW)



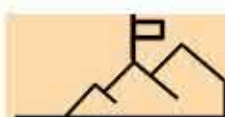
Overall Electricity Consumption (MU)



Access to Electricity

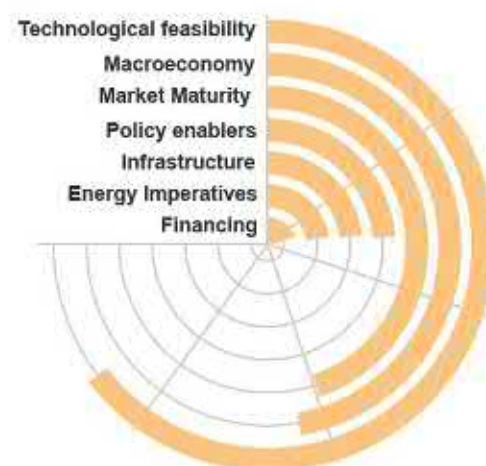


Ease of Doing Solar Classification



Influencer

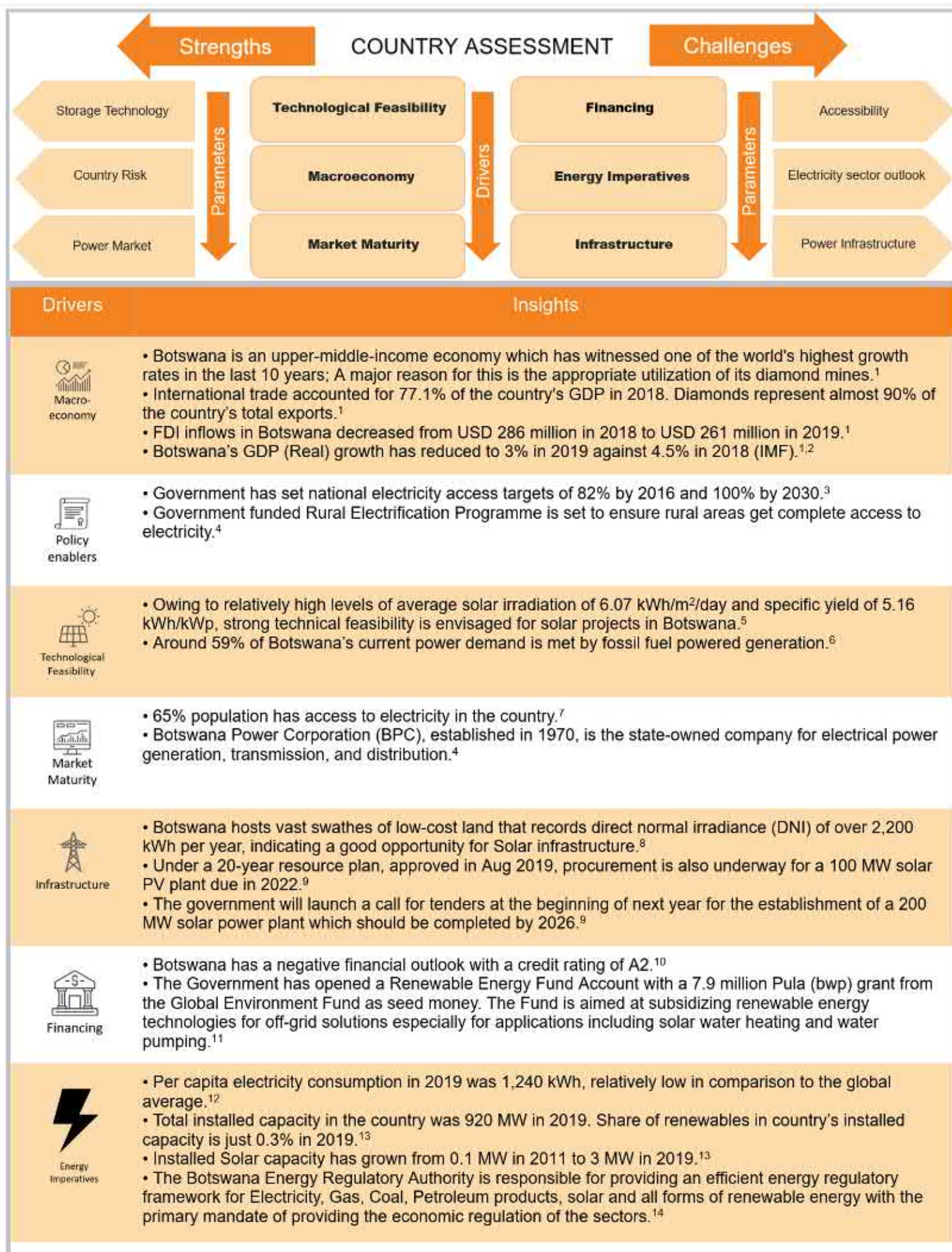
Performance against 7 Drivers



Sub-regional standing



● Neutral
 ● Beginner
 ● Progressive
 ● Influencer





Brazil

Latin America & Caribbean

Electricity Consumption
in BU (2017)

⚡ 498.0

Installed Solar Capacity in
MW (2019)

☀️ 4465.1

Share of Population with Access
to Electricity (2018)



Installed Off-Grid Solar Capacity
in MW (2019)

🏠 7.2

World Bank's Ease of Doing
Business Score (2020)

🏛️ 59.10

Solar installed capacity Growth rate
(CAGR) for 2015-19

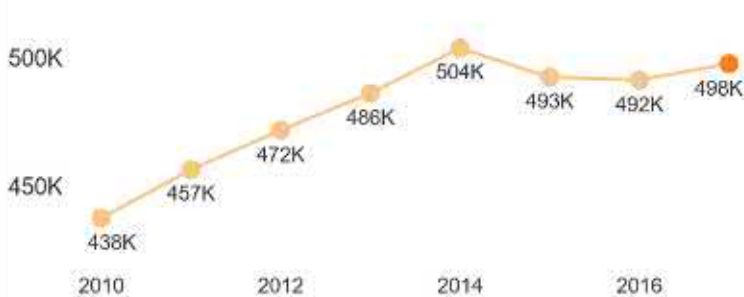
📈 259%

Power Trends

Cumulative Solar installed Capacity (MW)

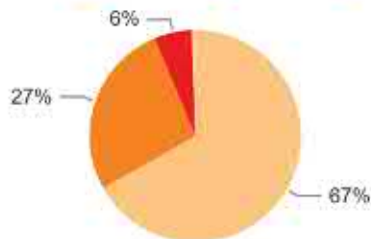


Overall Electricity Consumption (MU)

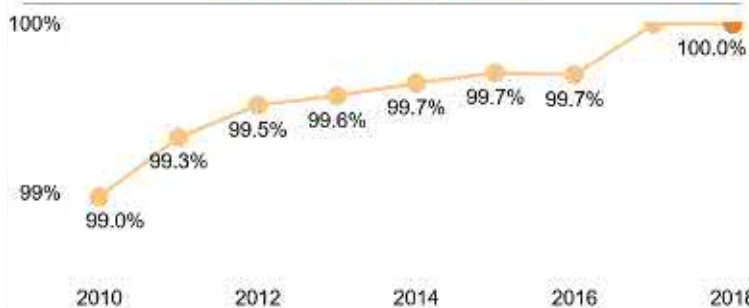


Consumer Mix

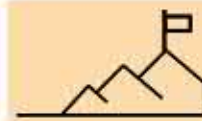
● Commercial & Industrial ● Residential ● Agricultural ● Others



Access to Electricity

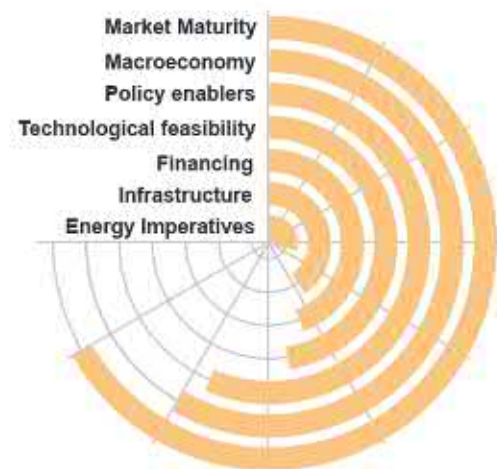


Ease of Doing Solar Classification

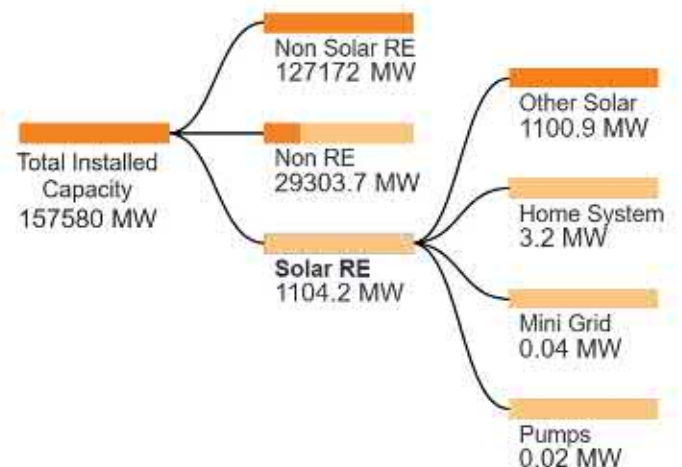


Achiever

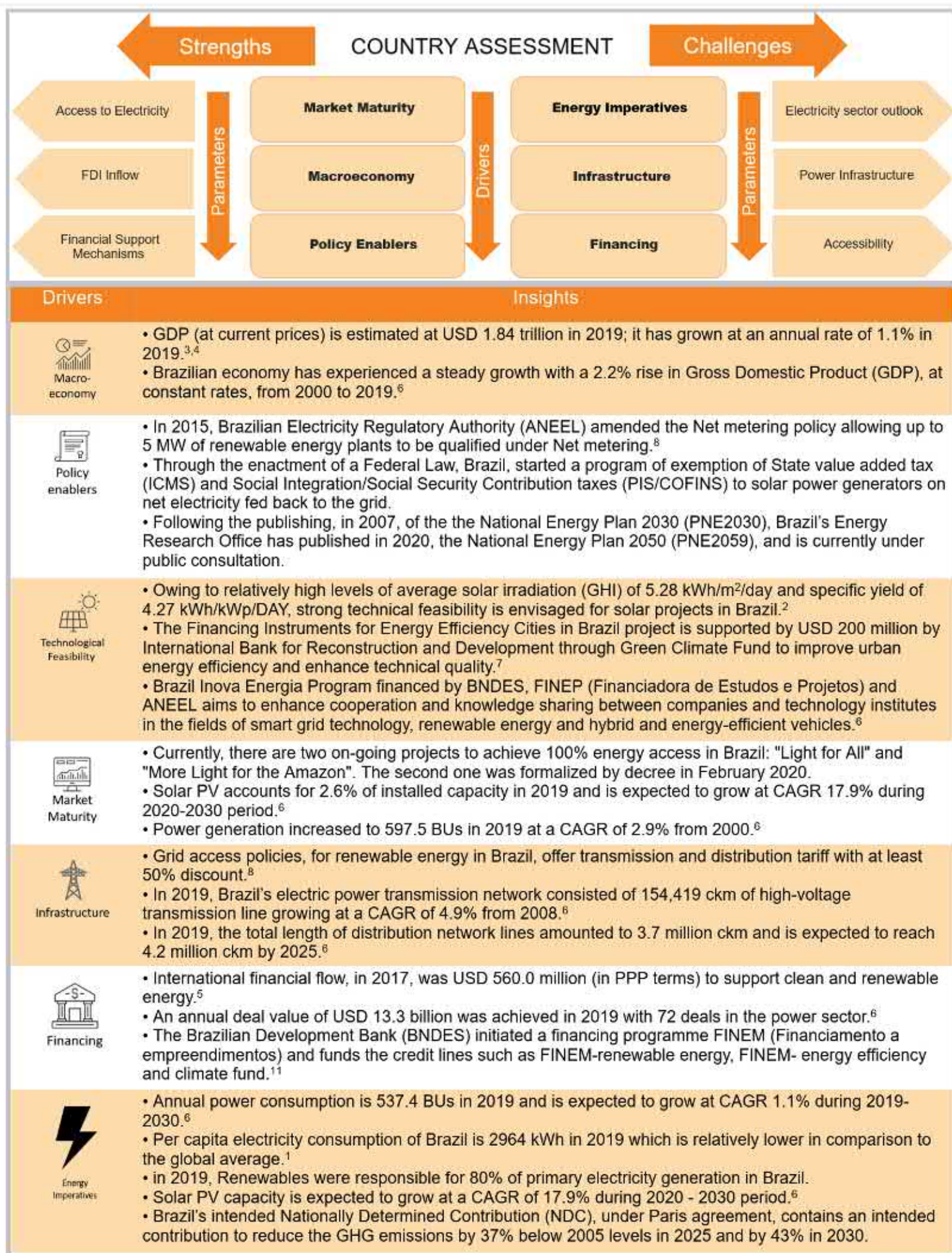
Performance against 7 Drivers

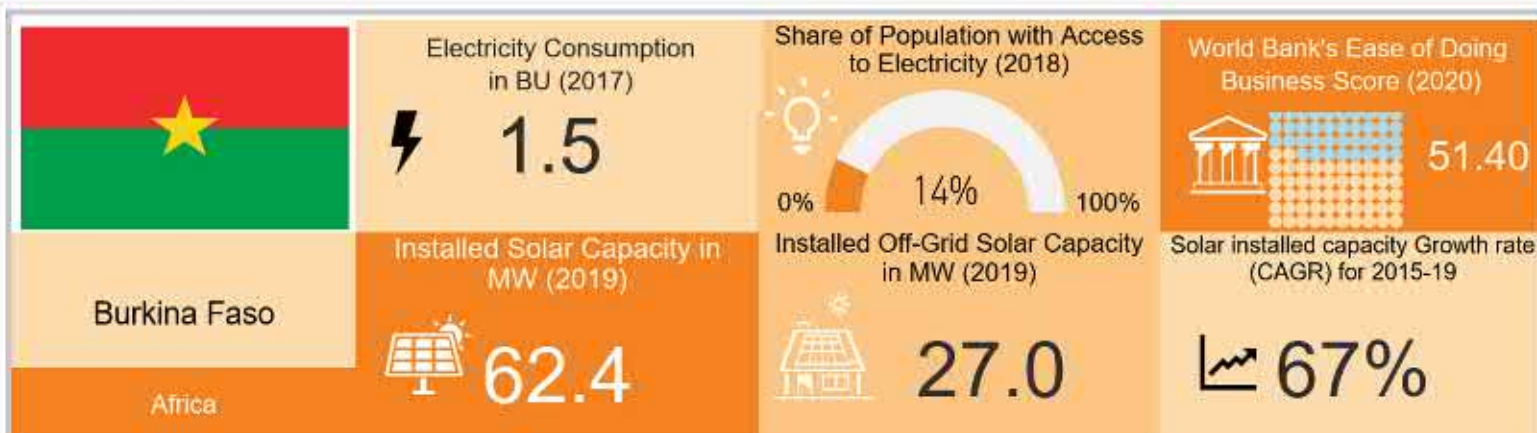


Installed Generation Capacity by Source



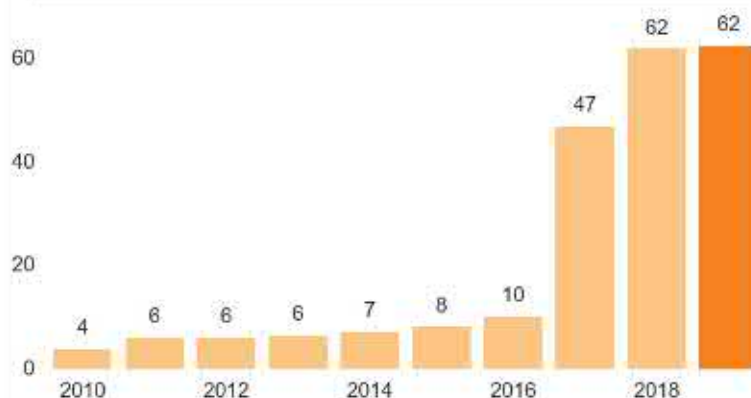
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



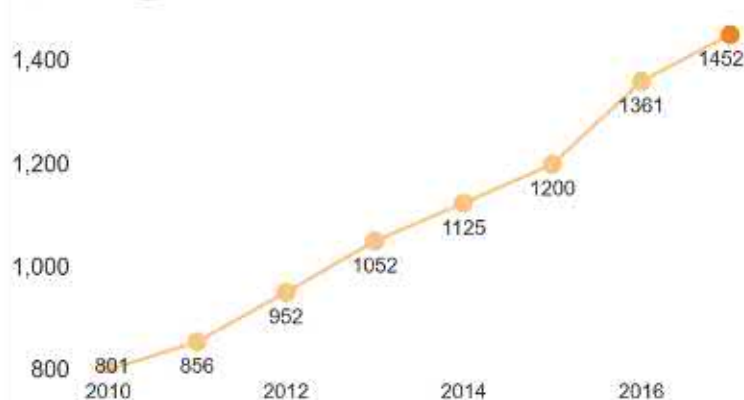


Power Trends

Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity



Ease of Doing Solar Classification

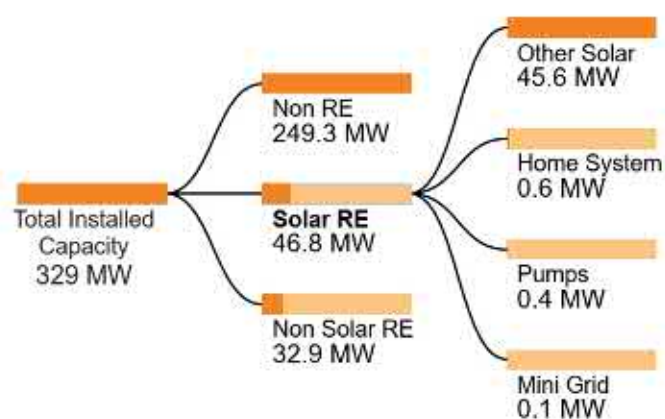


Influencer

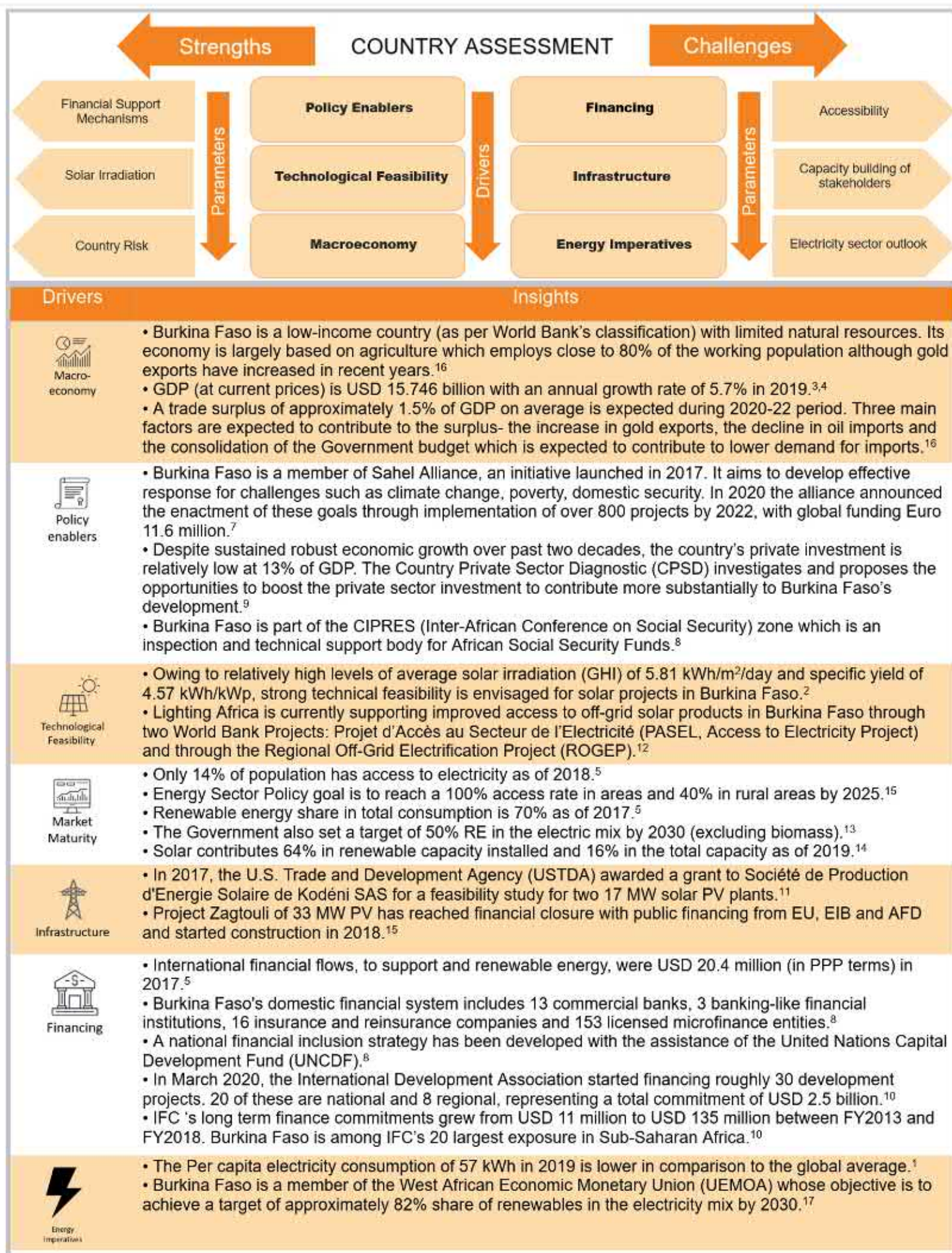
Performance against 7 Drivers

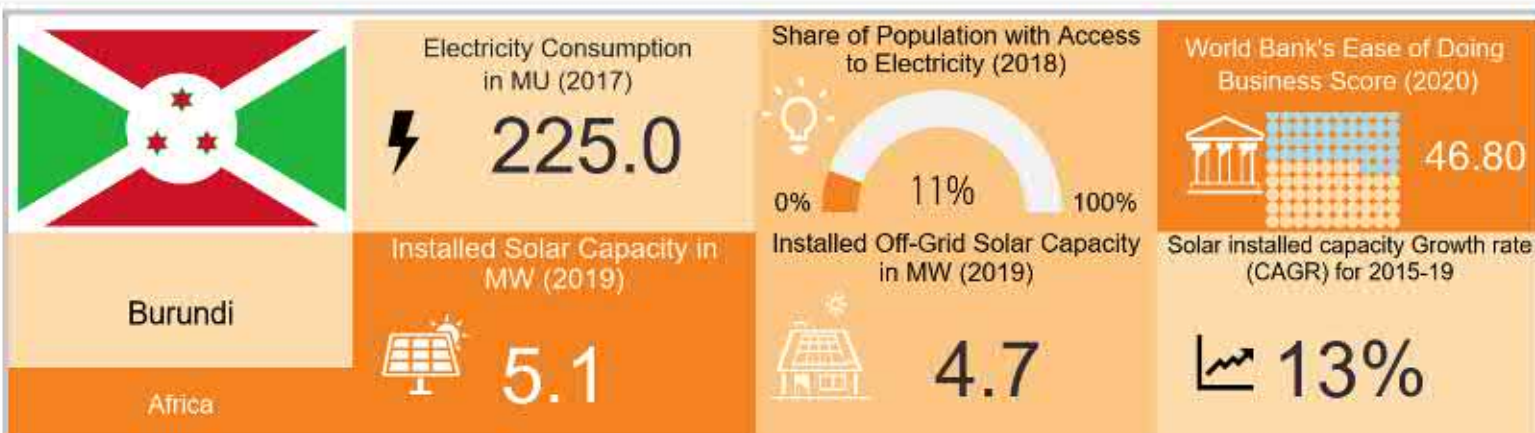


Installed Generation Capacity by Source



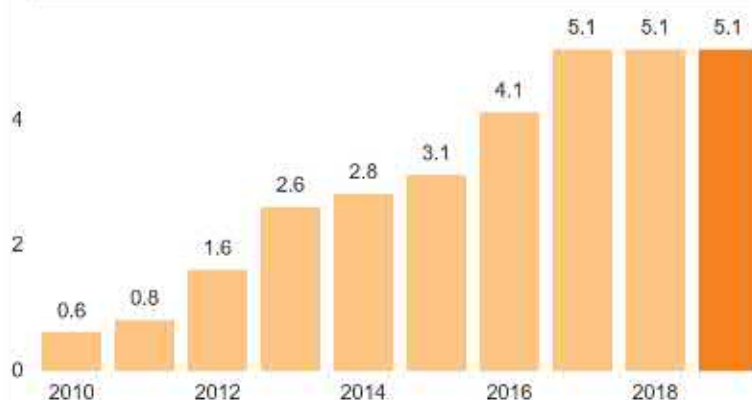
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Year: 2017.



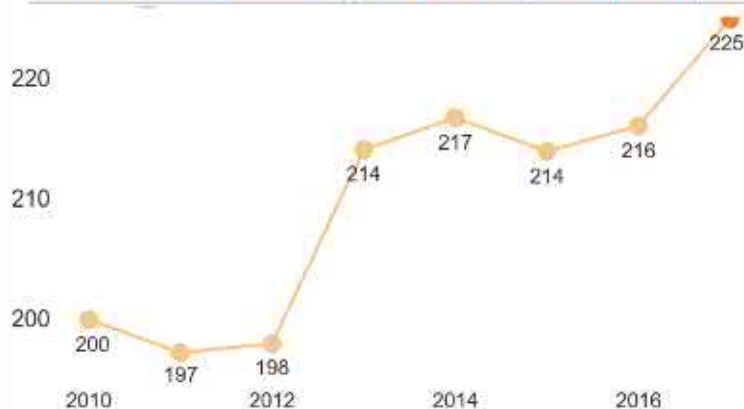


Power Trends

Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

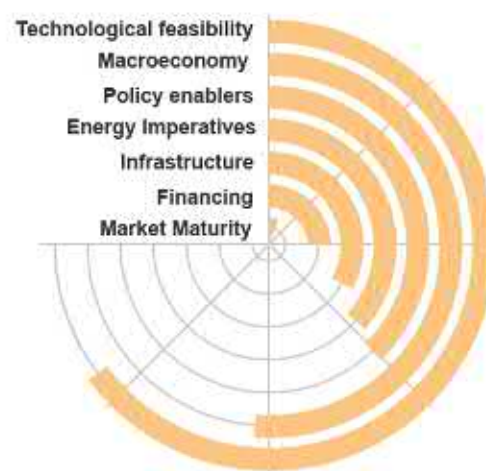


Ease of Doing Solar Classification

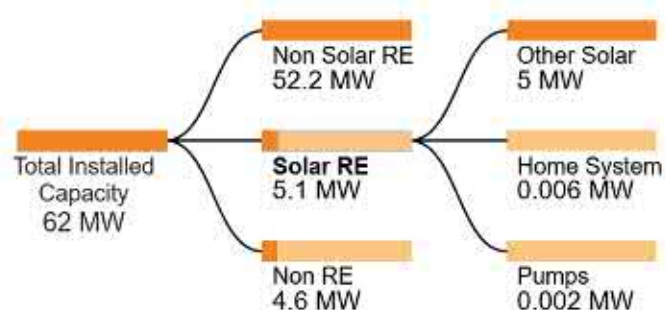


Potential

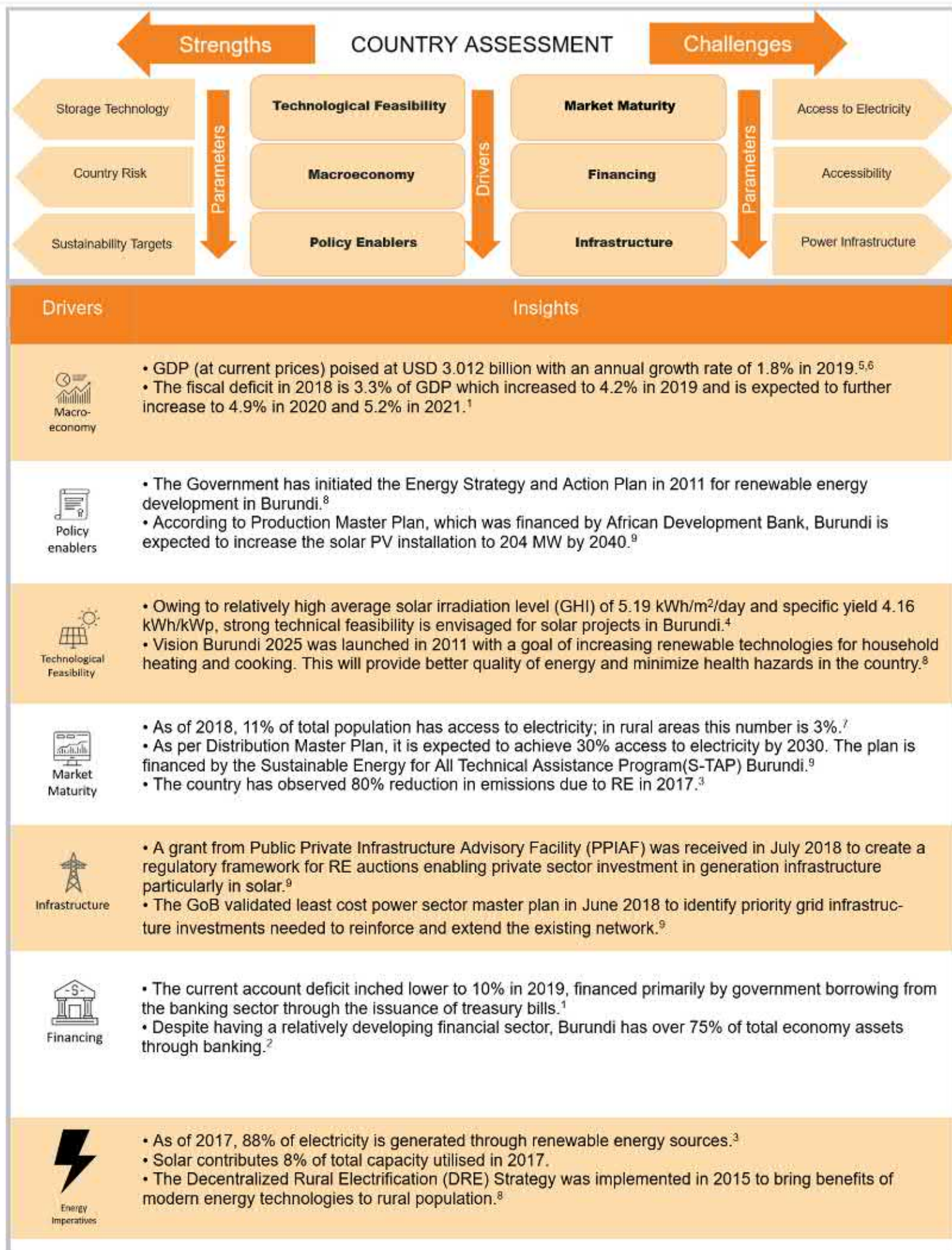
Performance against 7 Drivers

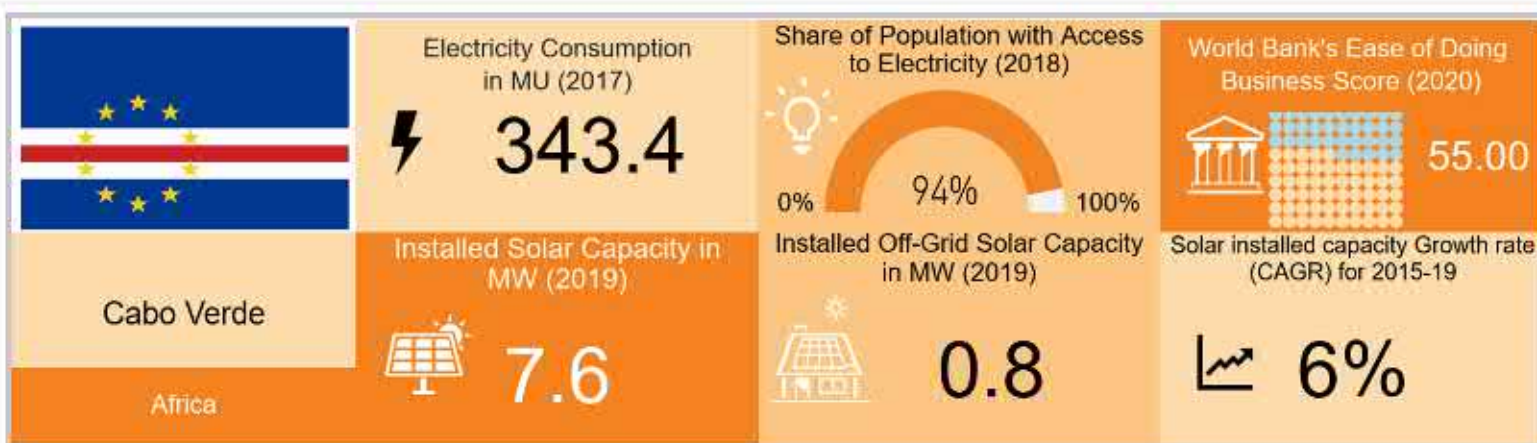


Installed Generation Capacity by Source



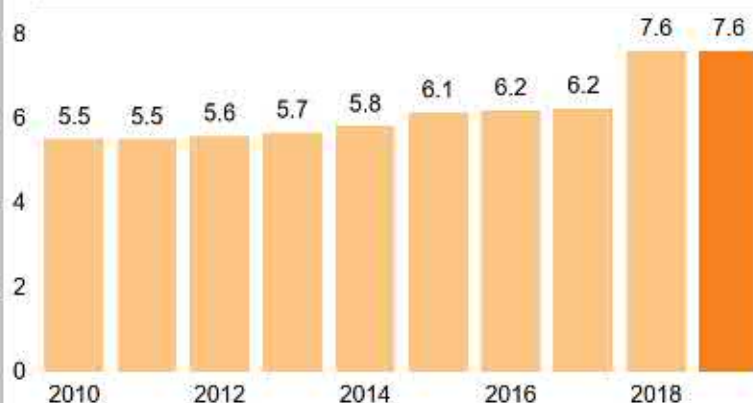
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Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



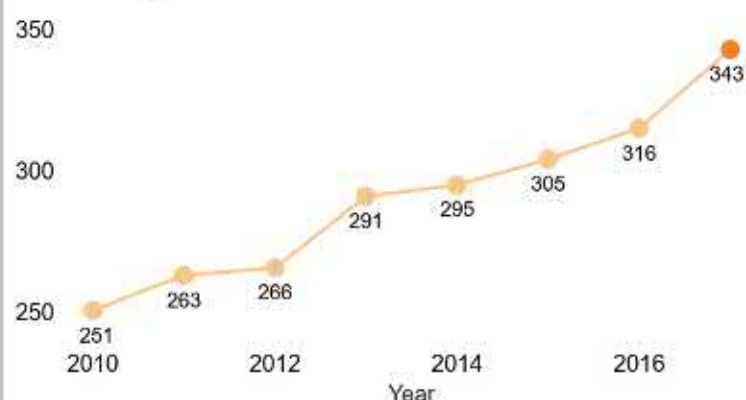


Power Trends

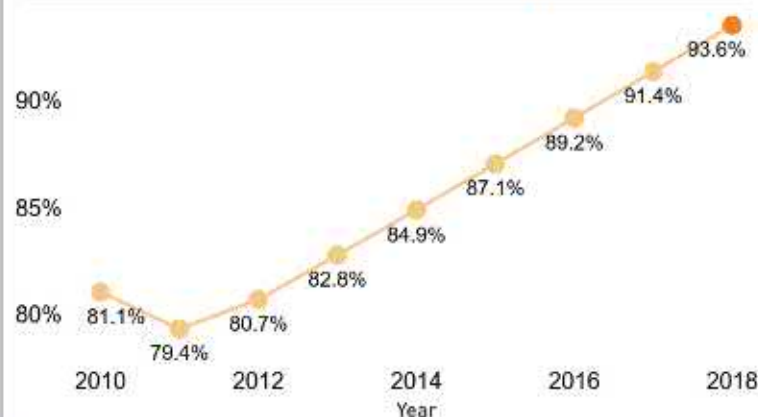
Cumulative Solar installed Capacity (MW)



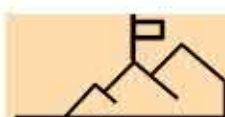
Overall Electricity Consumption (MU)



Access to Electricity



Ease of Doing Solar Classification



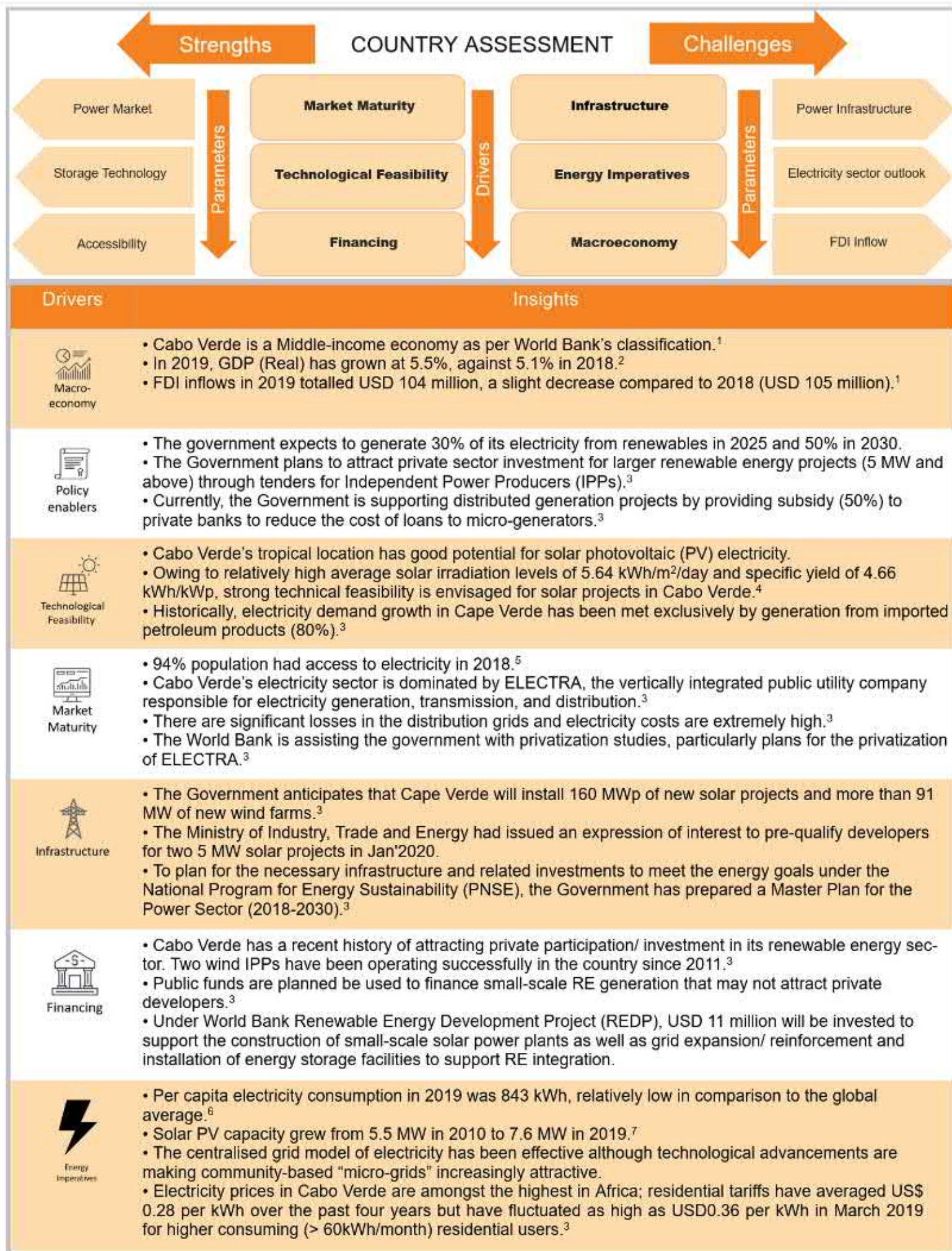
Influencer

Performance against 7 Drivers



Sub-regional standing







Cambodia

Asia & Pacific

Electricity Consumption
in BU (2017)

⚡ 6.8

Installed Solar Capacity in
MW (2019)



98.6

Share of Population with Access
to Electricity (2018)



0% 92% 100%

Installed Off-Grid Solar Capacity
in MW (2019)



1.3

World Bank's Ease of Doing
Business Score (2020)



53.80

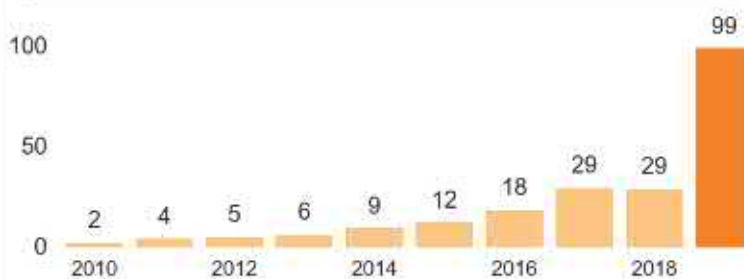
Solar installed capacity Growth rate
(CAGR) for 2015-19



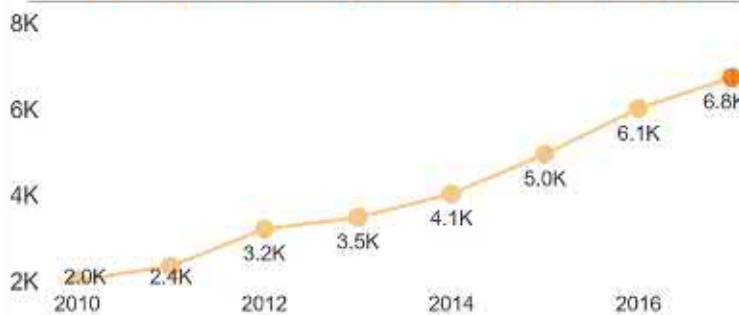
69%

Power Trends

Cumulative Solar installed Capacity (MW)

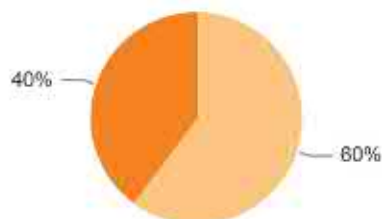


Overall Electricity Consumption (MU)

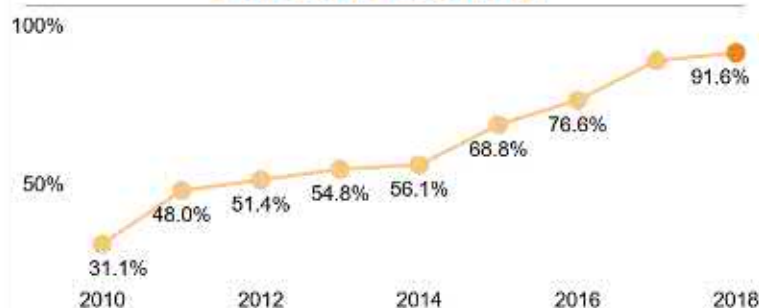


Consumer Mix

● Commercial & Industrial ● Residential ● Agricultural ● Others



Access to Electricity

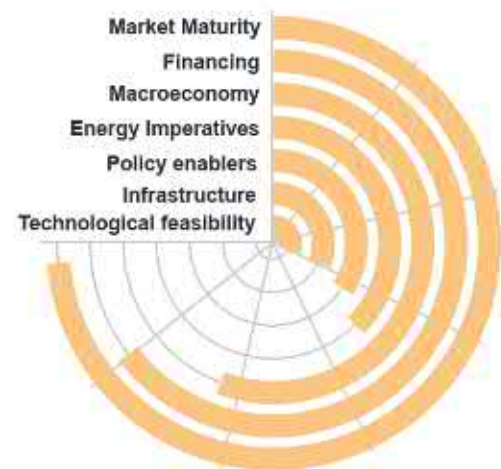


Ease of Doing Solar Classification

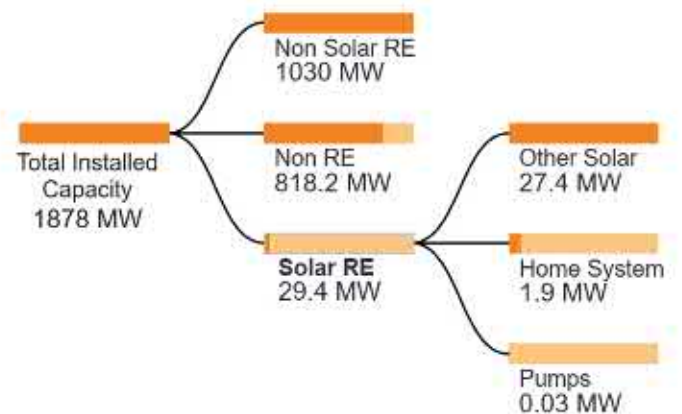


Progressive

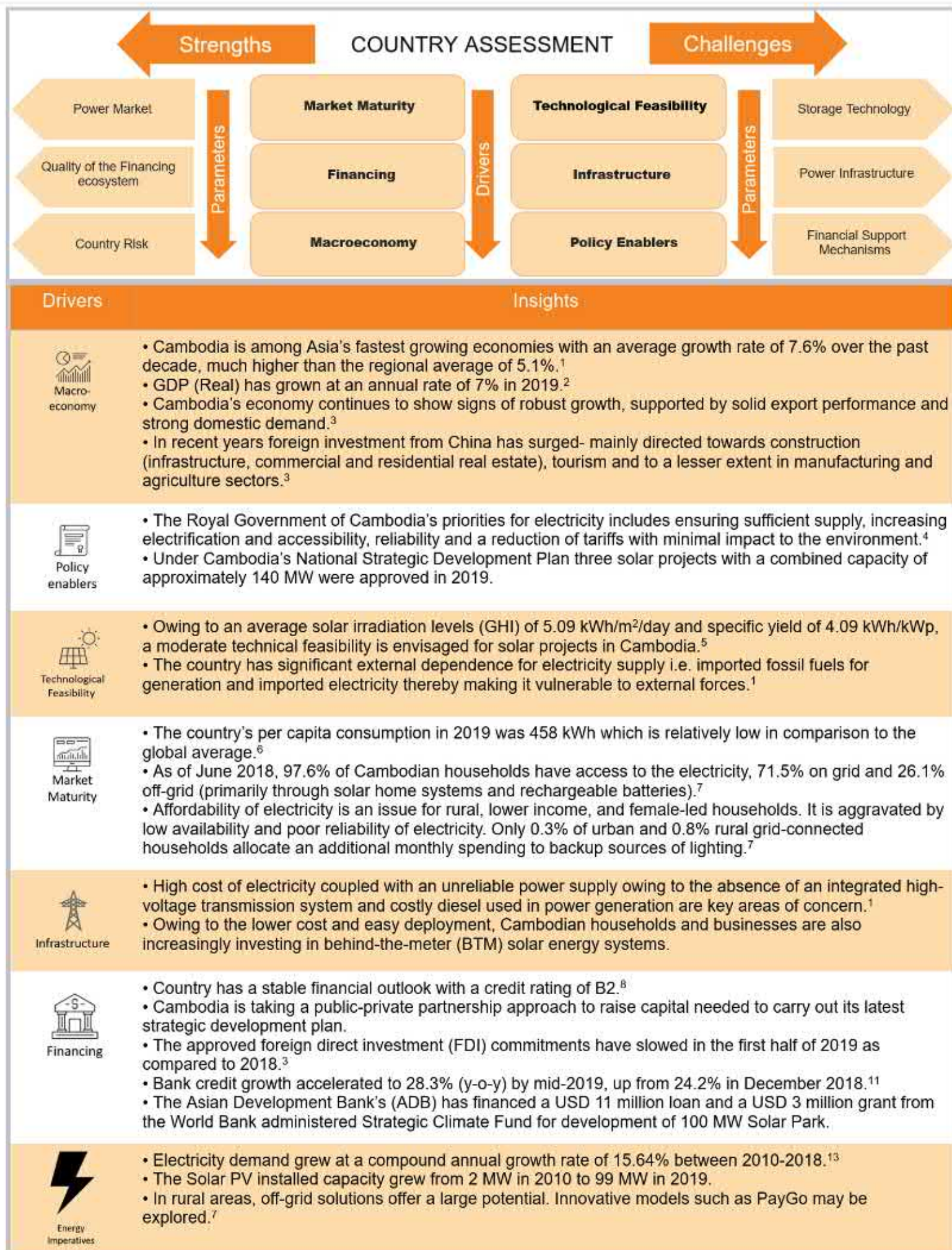
Performance against 7 Drivers

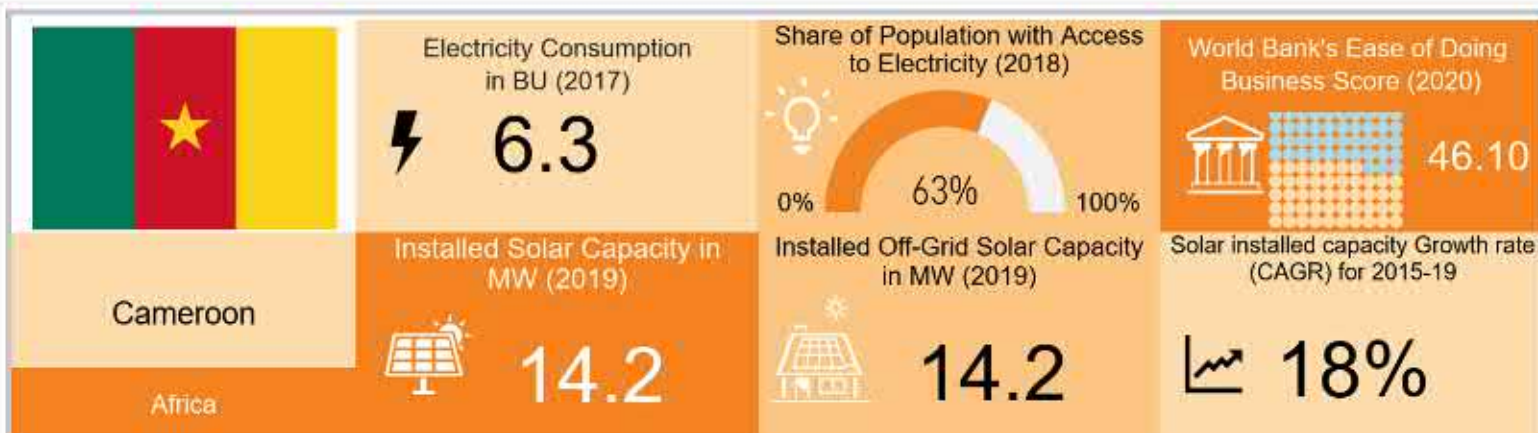


Installed Generation Capacity by Source



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Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



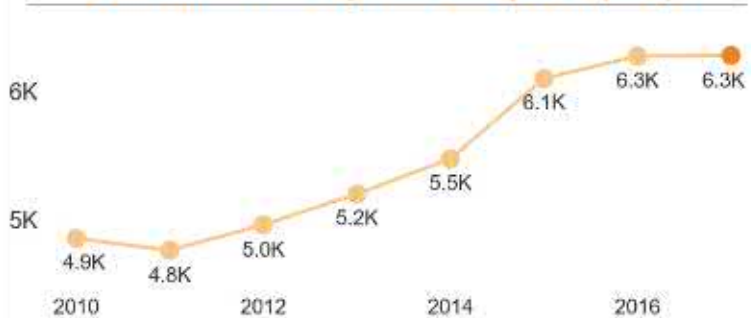


Power Trends

Cumulative Solar installed Capacity (MW)

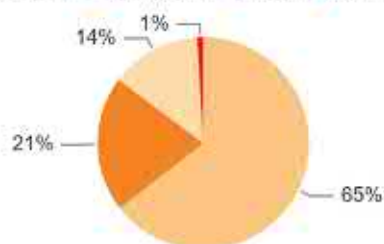


Overall Electricity Consumption (MU)

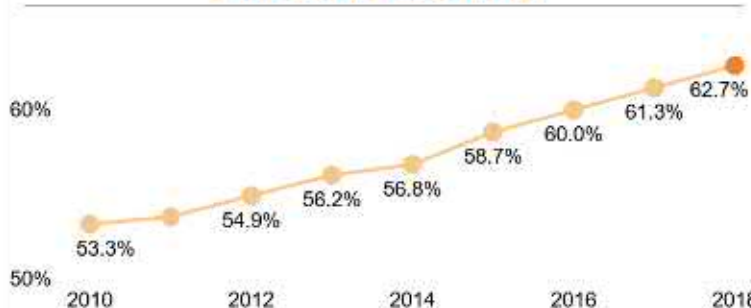


Consumer Mix

Commercial & Industrial Residential Others Agricultural



Access to Electricity



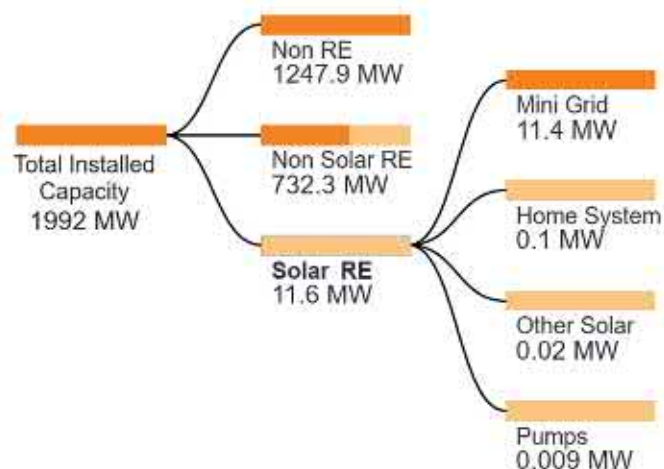
Ease of Doing Solar Classification



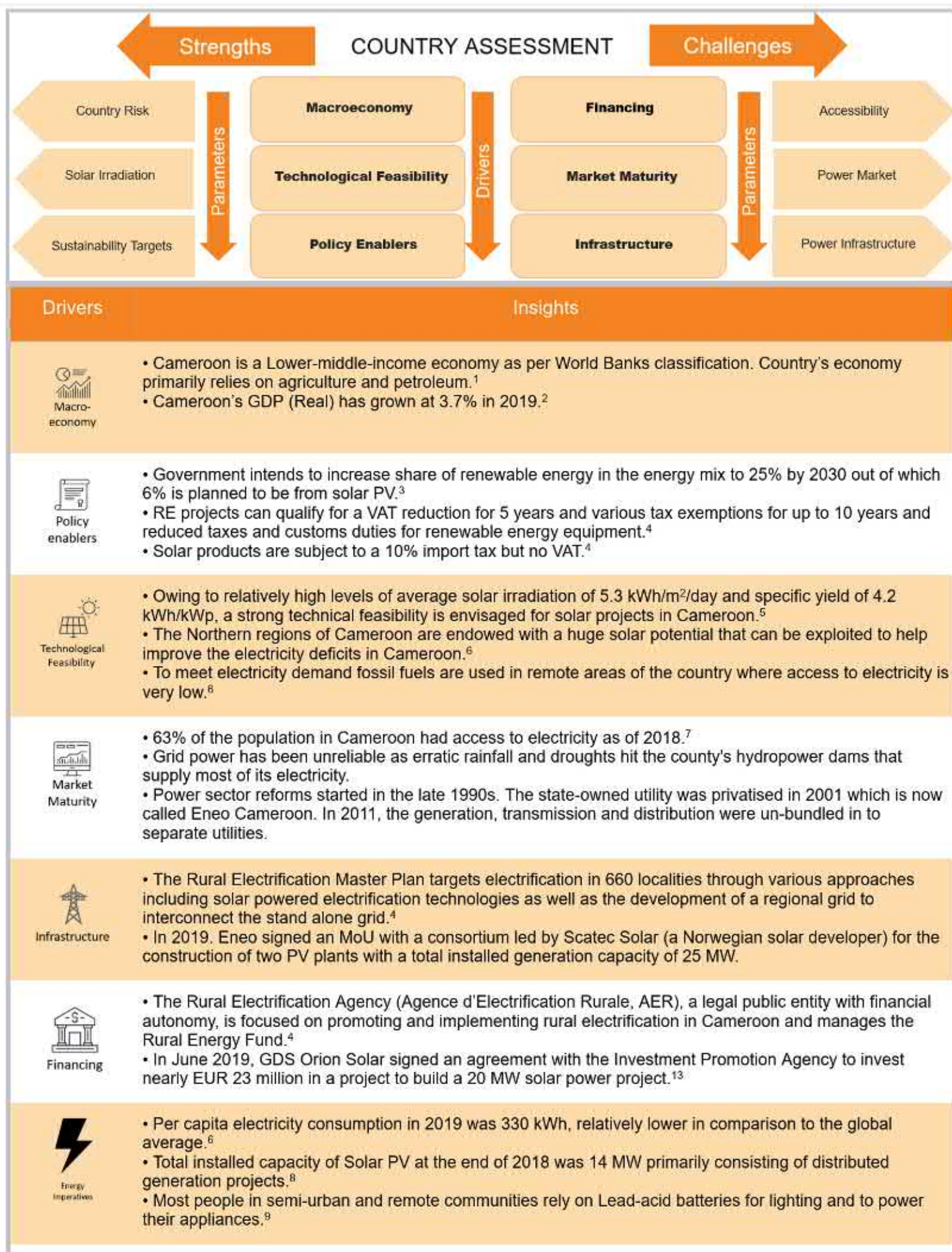
Performance against 7 Drivers

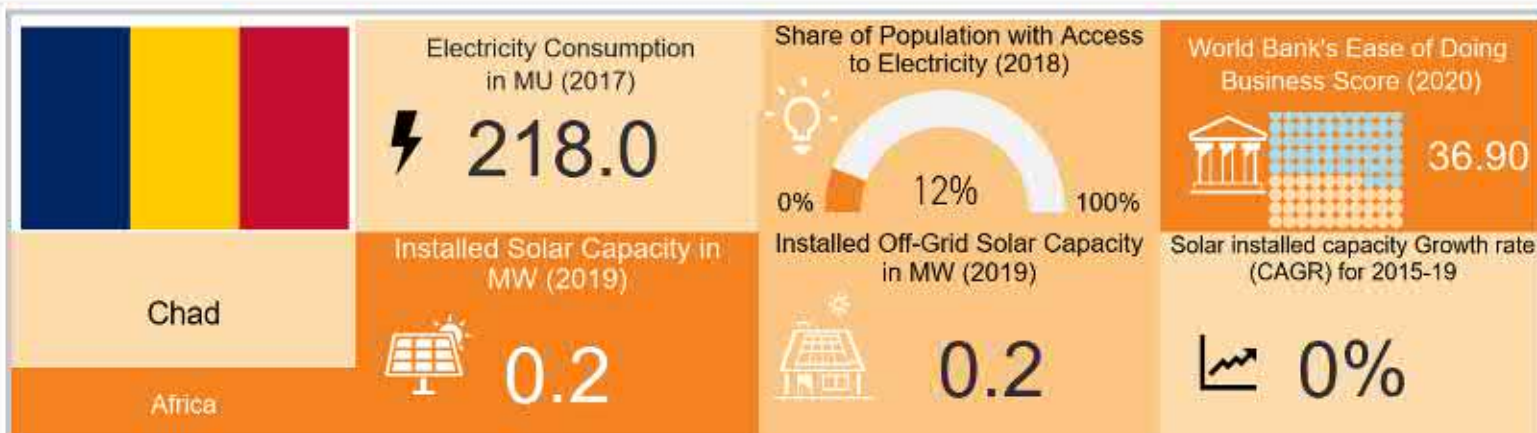


Installed Generation Capacity by Source



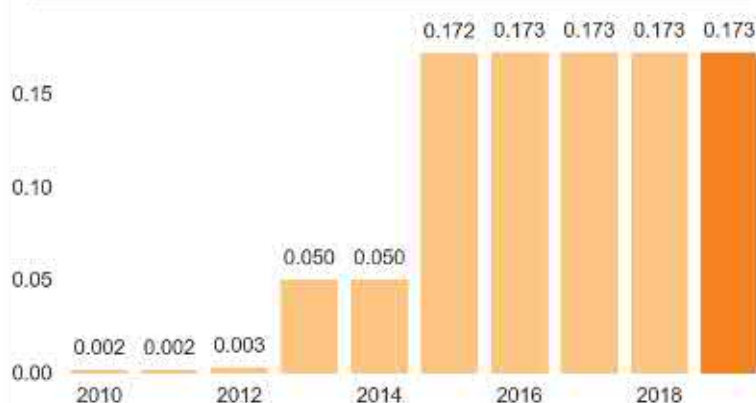
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
 Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
 Other Solar includes Utility Scale Solar, Rooftop etc.;
 Year: 2017.



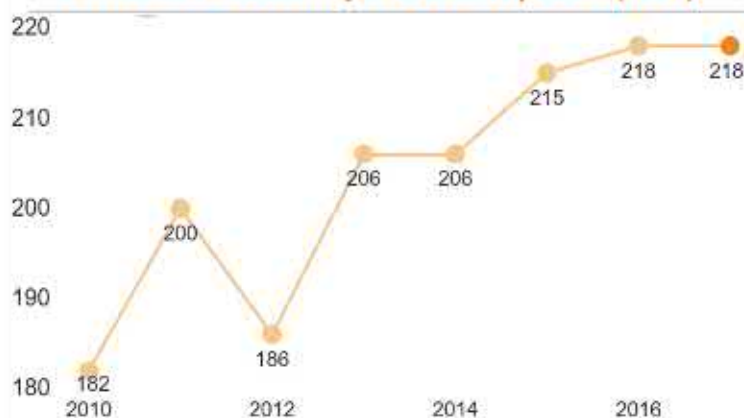


Power Trends

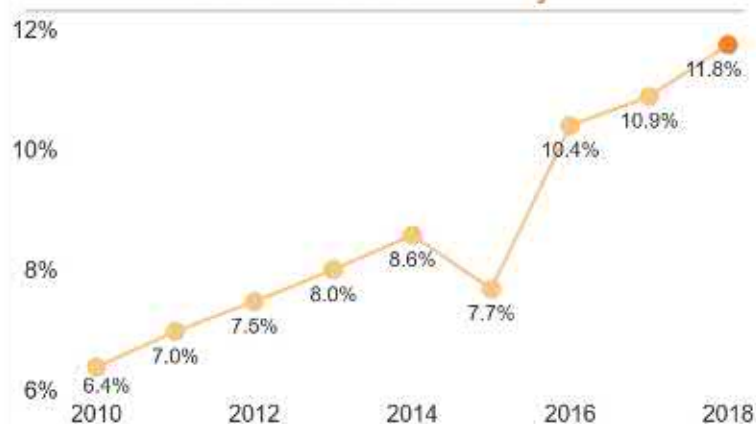
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

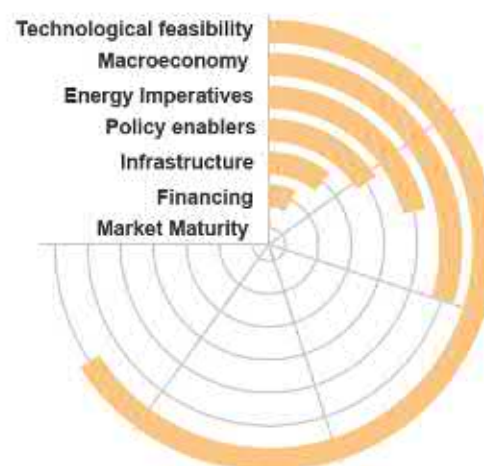


Ease of Doing Solar Classification

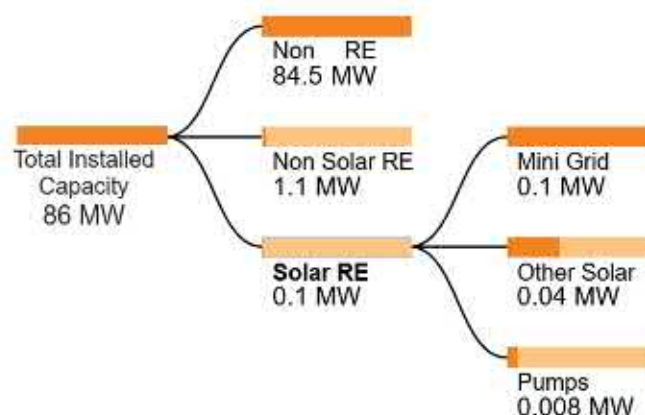


Potential

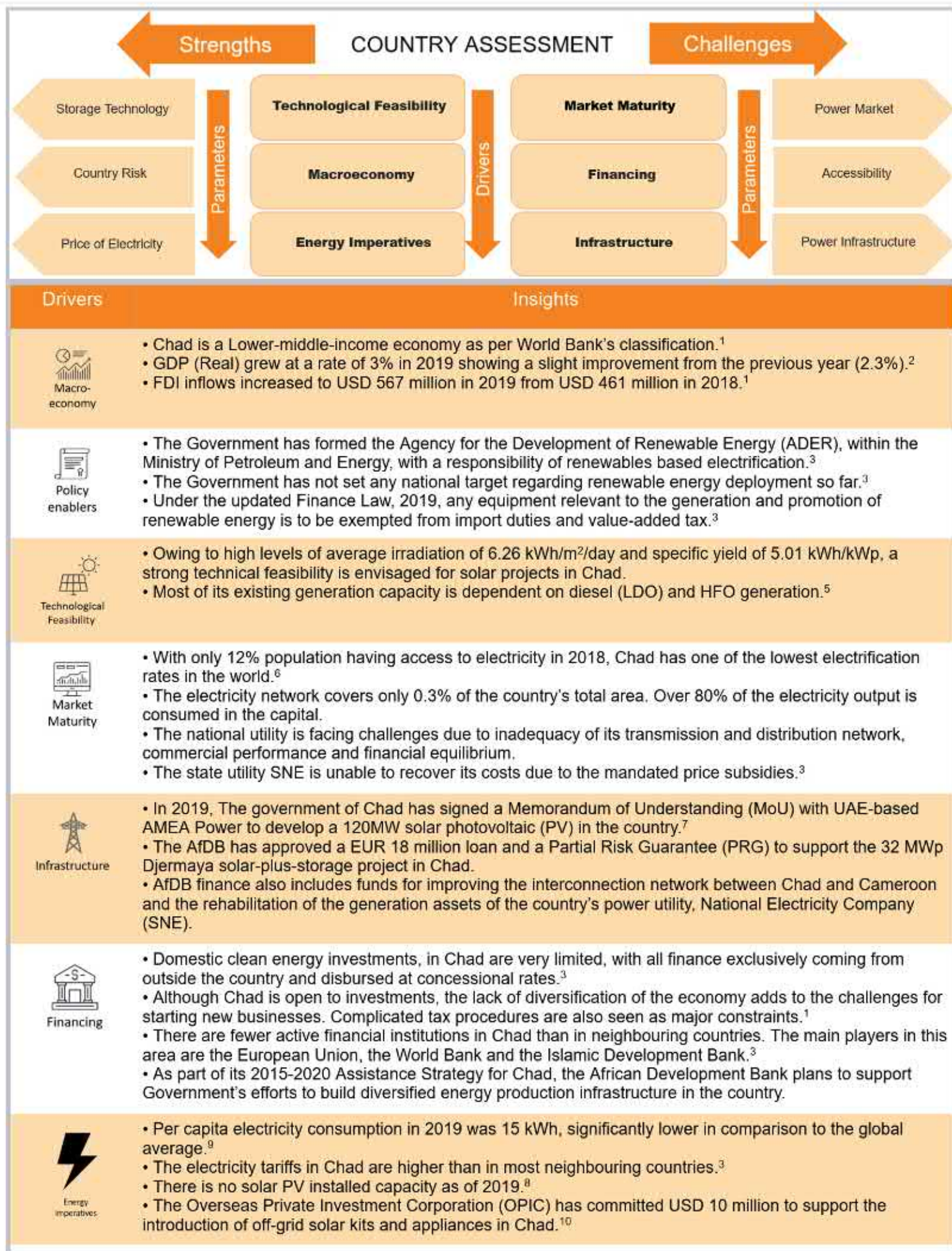
Performance against 7 Drivers

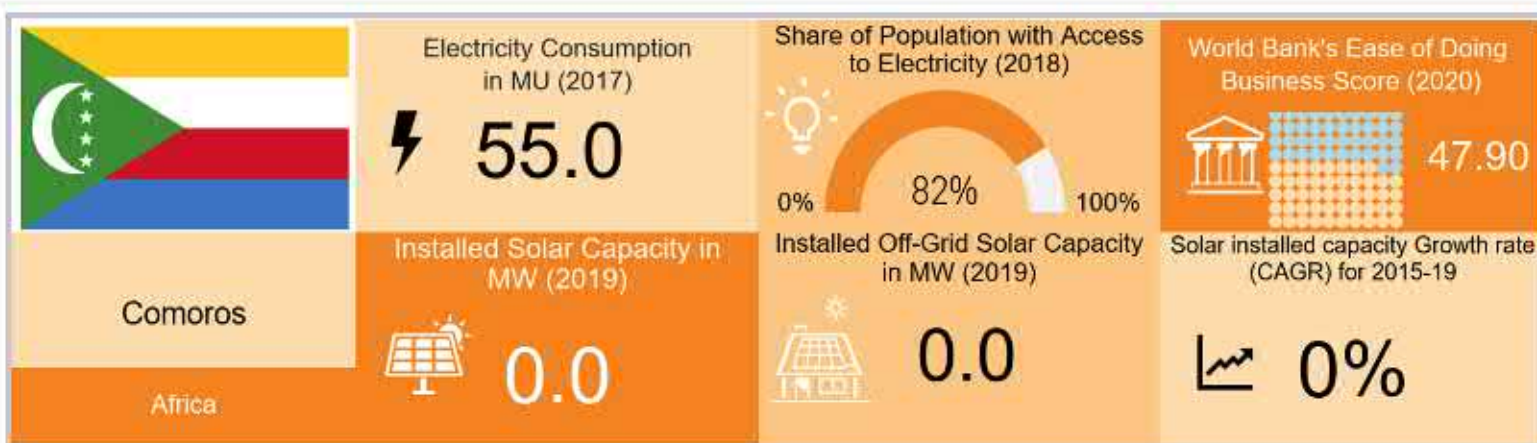


Installed Generation Capacity by Source



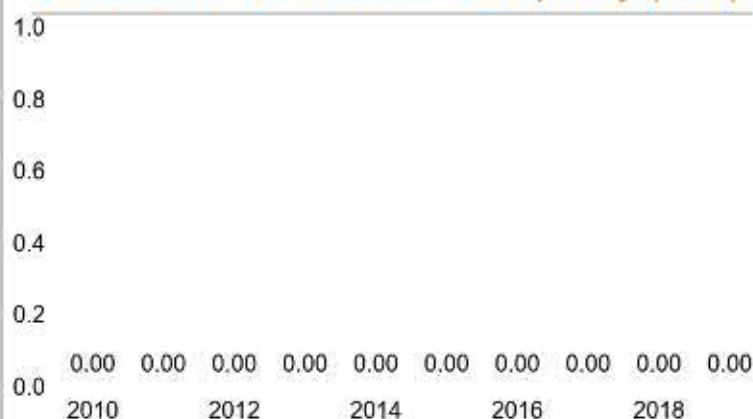
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
 Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
 Other Solar includes Utility Scale Solar, Rooftop etc.;
 Year: 2017.





Power Trends

Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

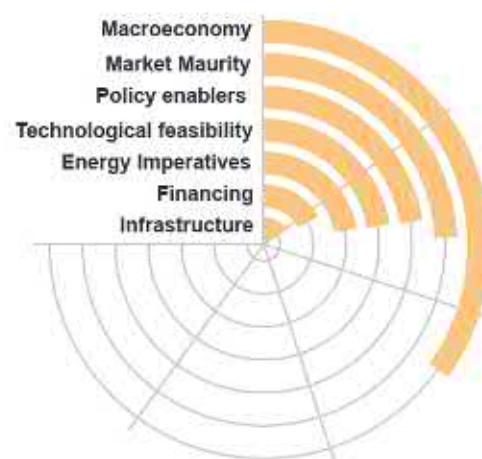


Ease of Doing Solar Classification



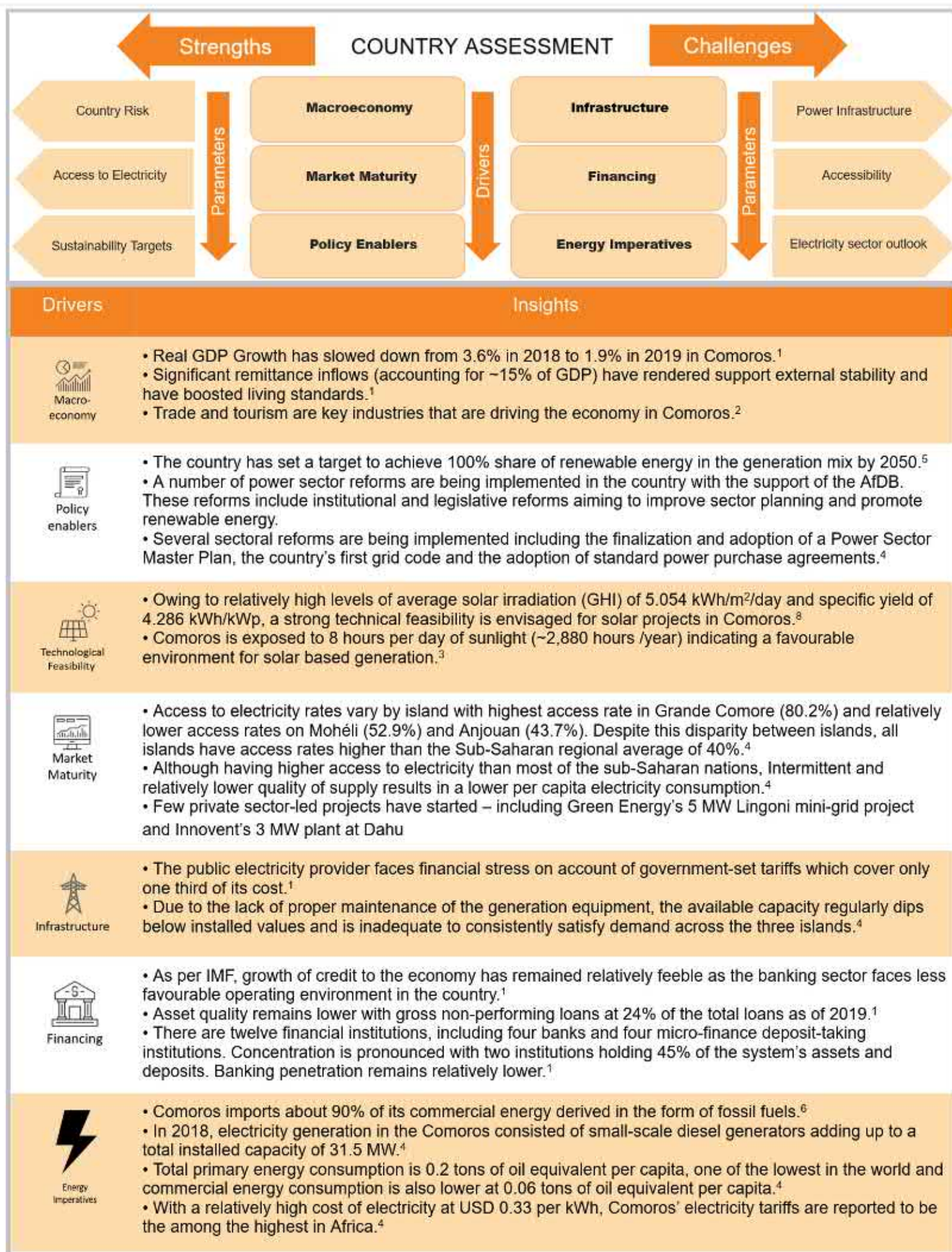
Potential

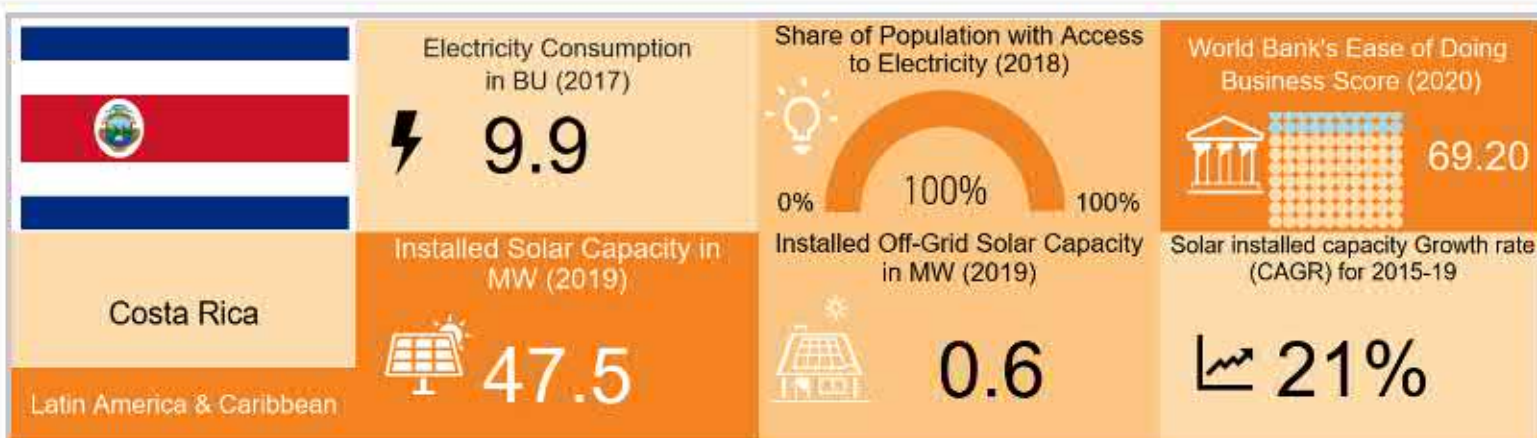
Performance against 7 Drivers



Sub-regional standing

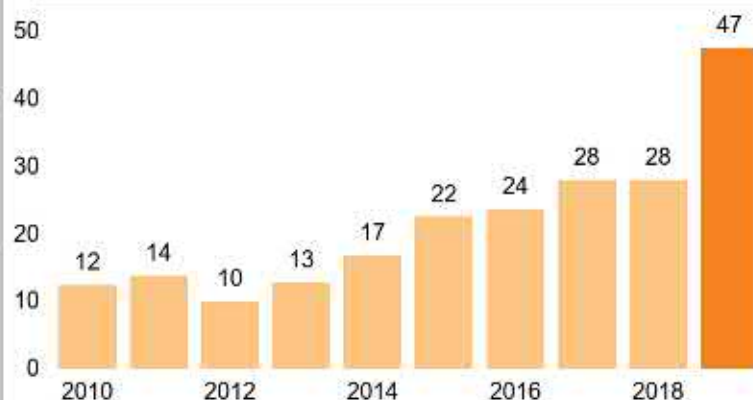






Power Trends

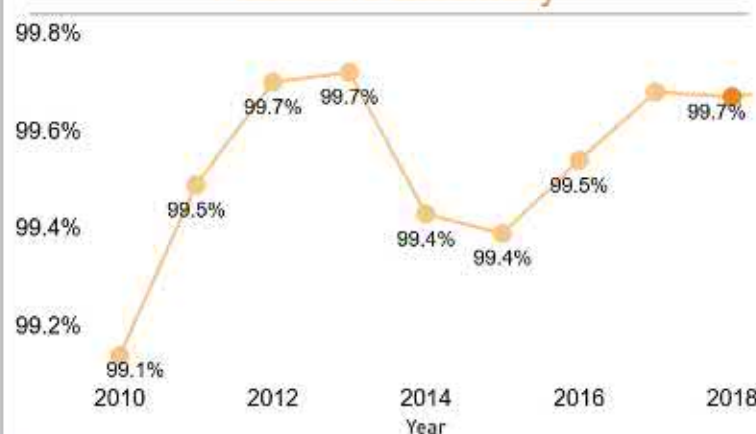
Cumulative Solar installed Capacity (MW)



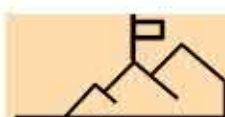
Overall Electricity Consumption (MU)



Access to Electricity



Ease of Doing Solar Classification



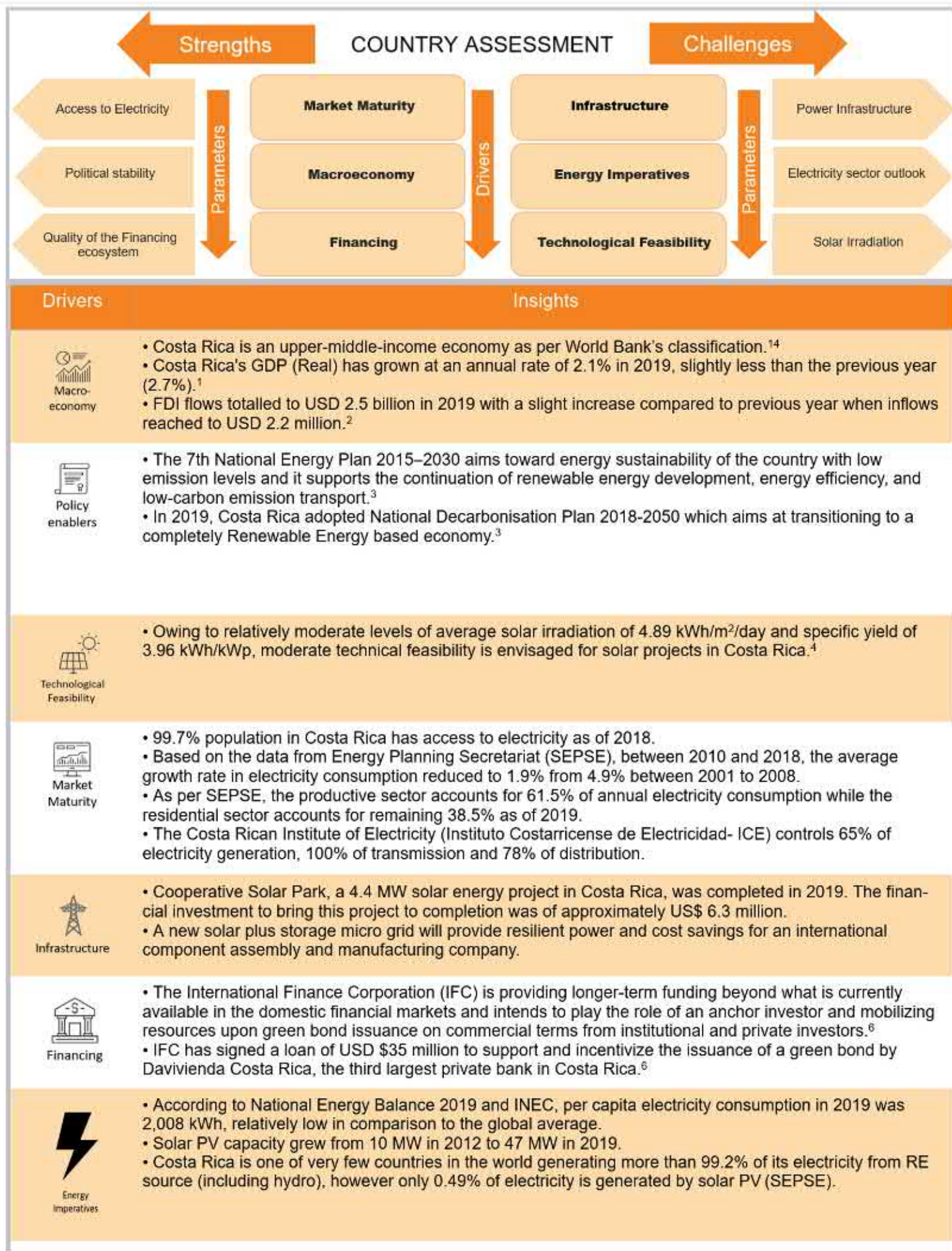
Influencer

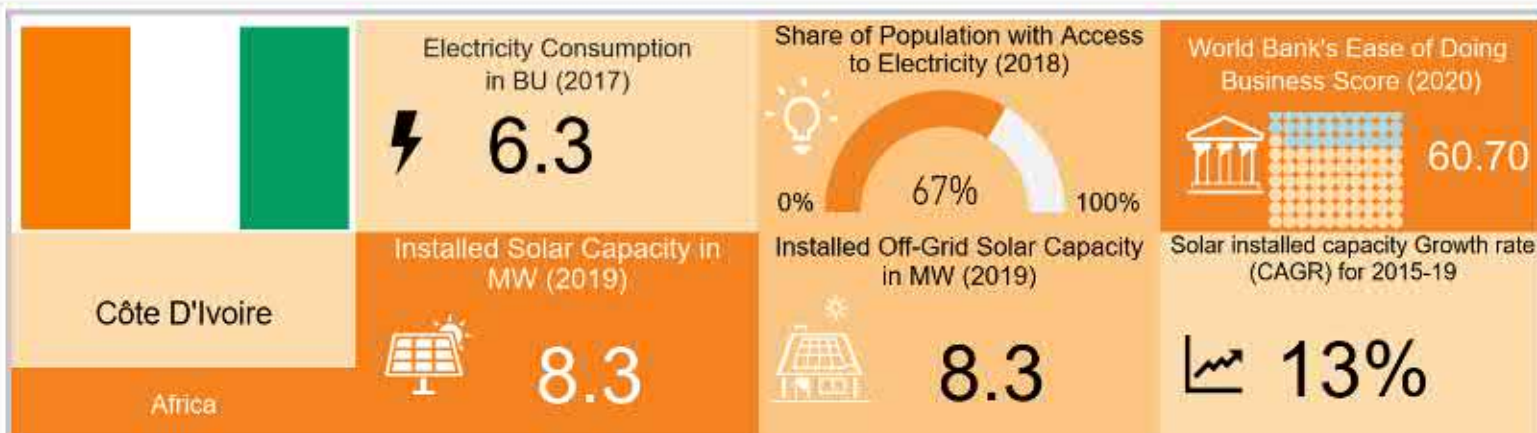
Performance against 7 Drivers



Sub-regional standing

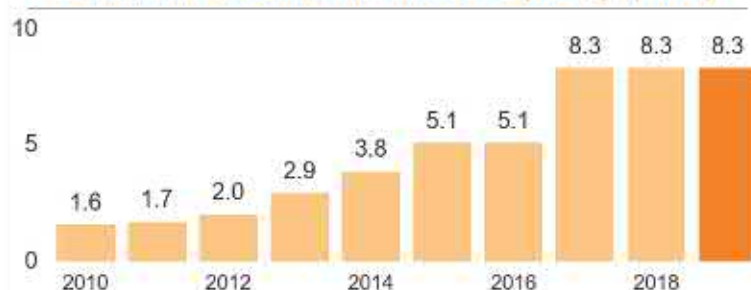




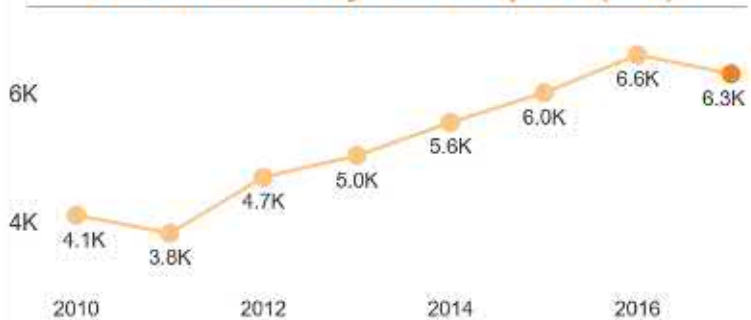


Power Trends

Cumulative Solar installed Capacity (MW)

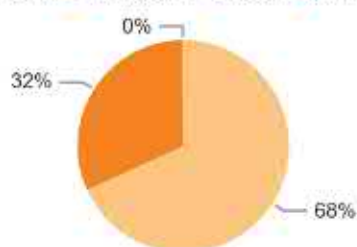


Overall Electricity Consumption (MU)



Consumer Mix

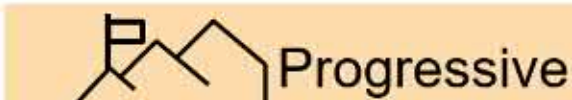
Commercial & Industrial Residential Others Agricultural



Access to Electricity



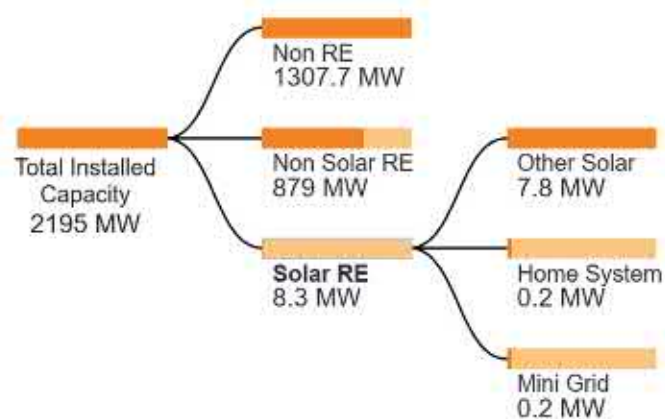
Ease of Doing Solar Classification



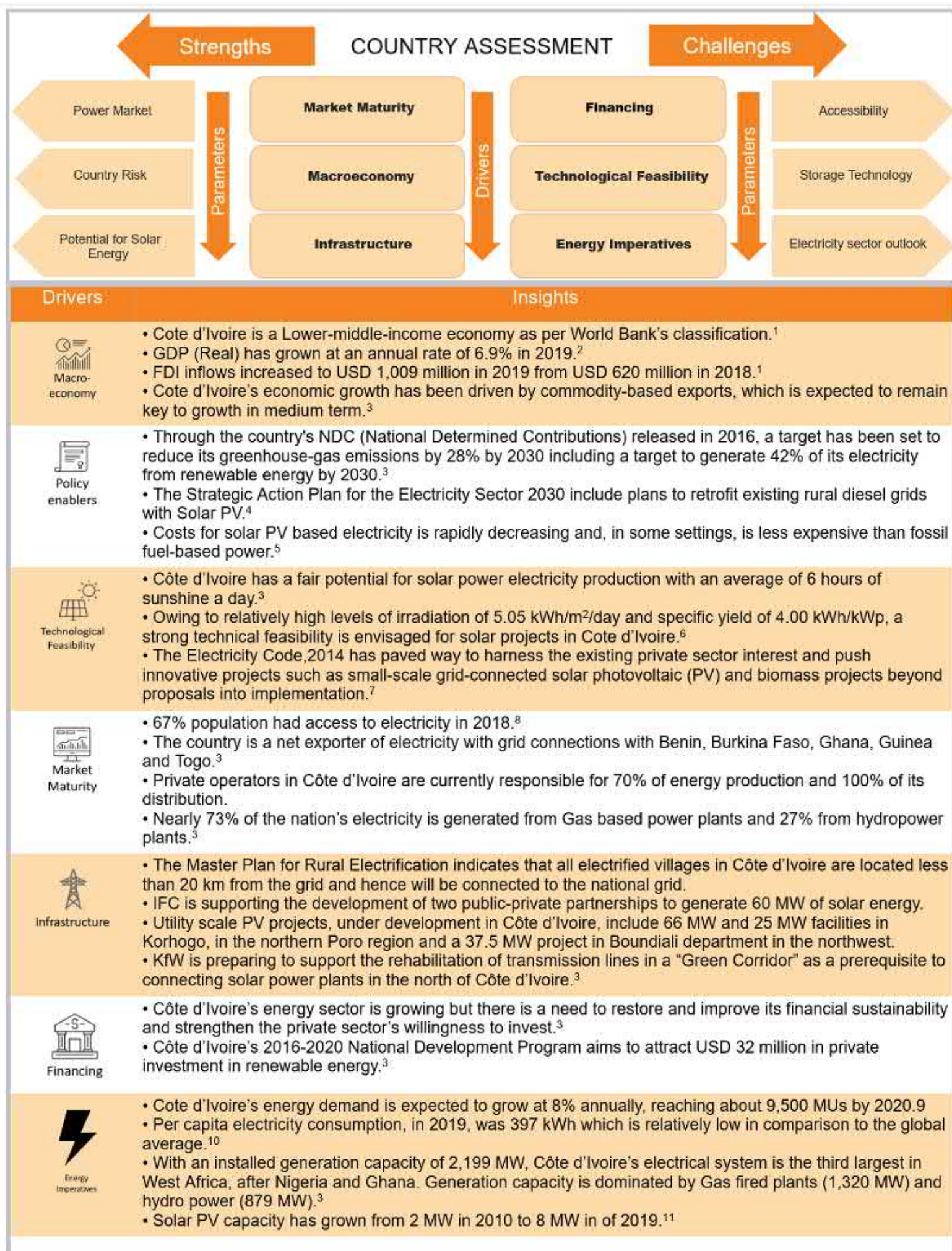
Performance against 7 Drivers



Installed Generation Capacity by Source



Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
 Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
 Other Solar includes Utility Scale Solar, Rooftop etc.;
 Year: 2017.





Cuba

Latin America & Caribbean

Electricity Consumption
in BU (2017)

⚡ 15.5

Installed Solar Capacity in
MW (2019)



159.3

Share of Population with Access
to Electricity (2018)



0% 100% 100%

Installed Off-Grid Solar Capacity
in MW (2019)



7.0

World Bank's Ease of Doing
Business Score (2020)



-

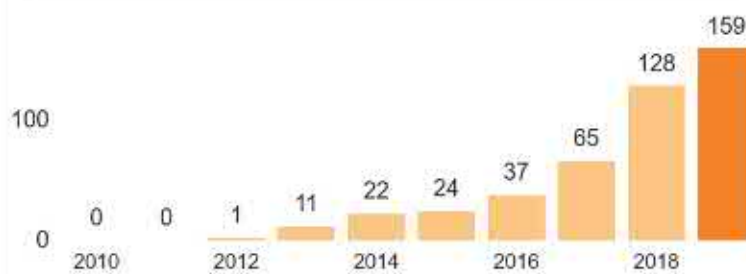
Solar installed capacity Growth rate
(CAGR) for 2015-19



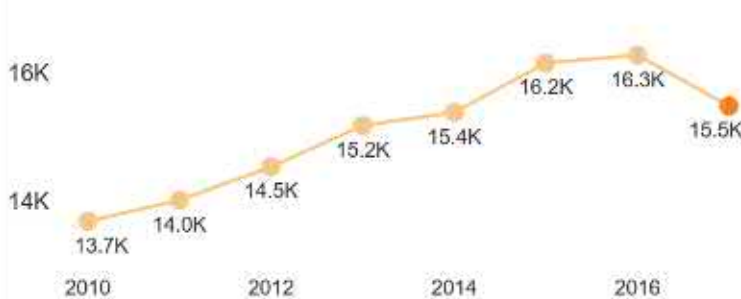
61%

Power Trends

Cumulative Solar installed Capacity (MW)

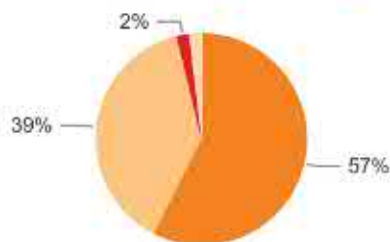


Overall Electricity Consumption (MU)

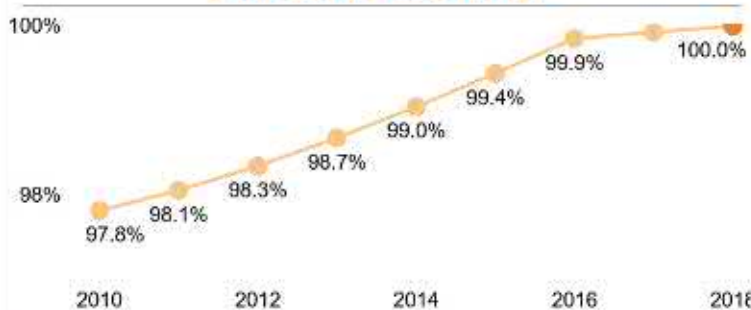


Consumer Mix

● Residential ● Commercial & Industrial ● Agricultural ● Others



Access to Electricity

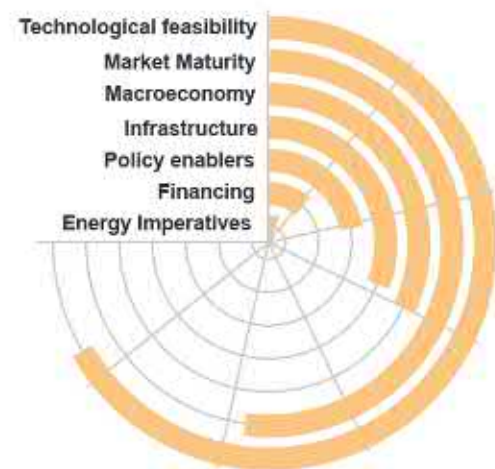


Ease of Doing Solar Classification

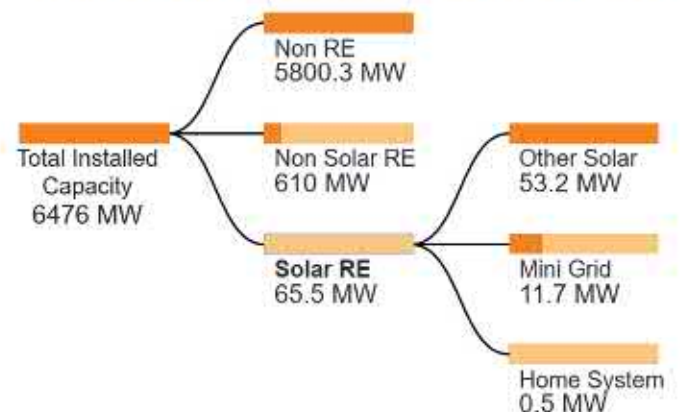


Potential

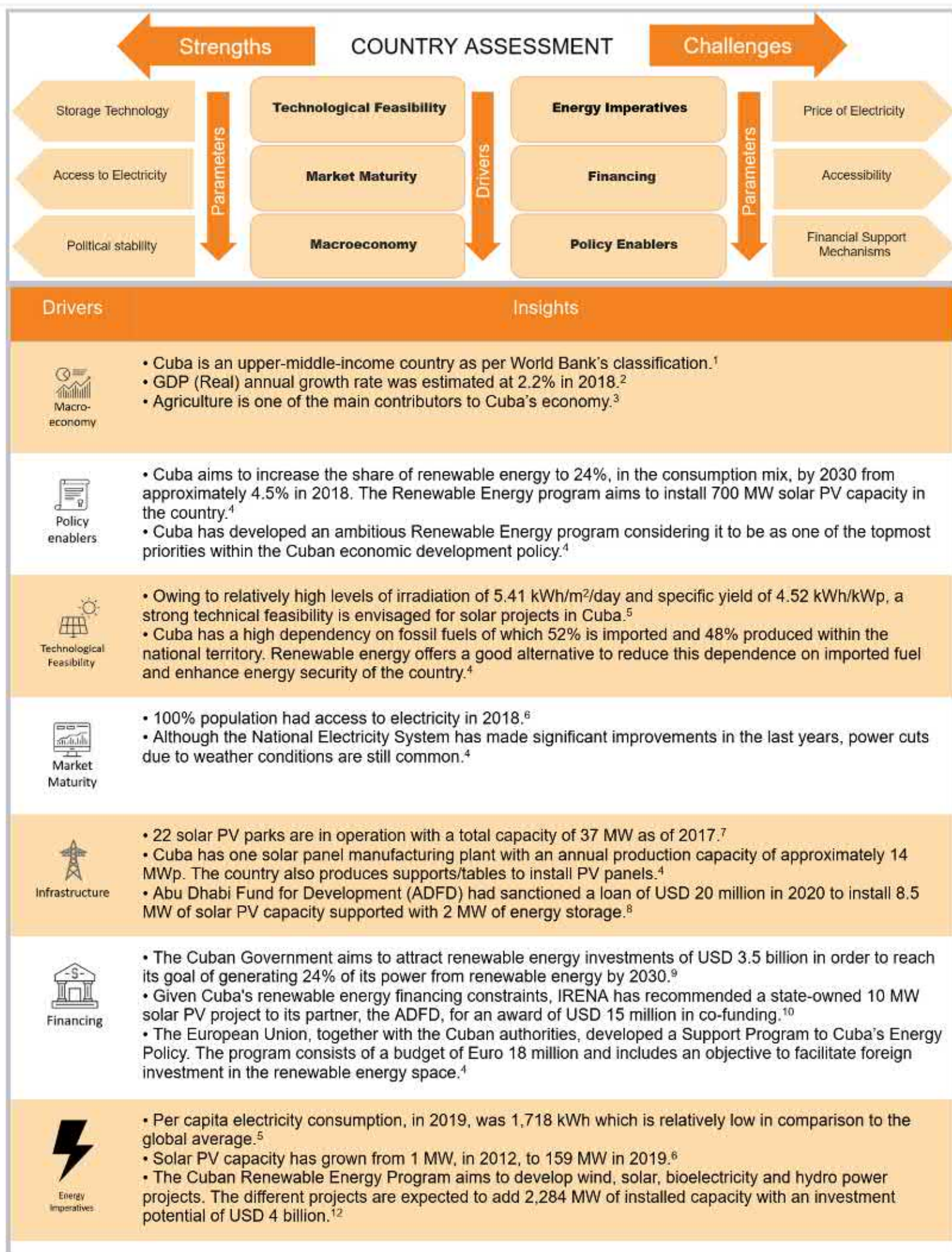
Performance against 7 Drivers



Installed Generation Capacity by Source



Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.

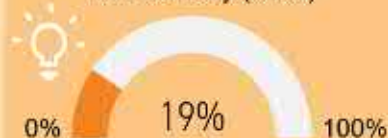




Electricity Consumption
in BU (2017)

7.2

Share of Population with Access
to Electricity (2018)



World Bank's Ease of Doing
Business Score (2020)



36.20

Democratic Republic
of the Congo

Installed Solar Capacity in
MW (2019)



18.9

Installed Off-Grid Solar Capacity
in MW (2019)



18.9

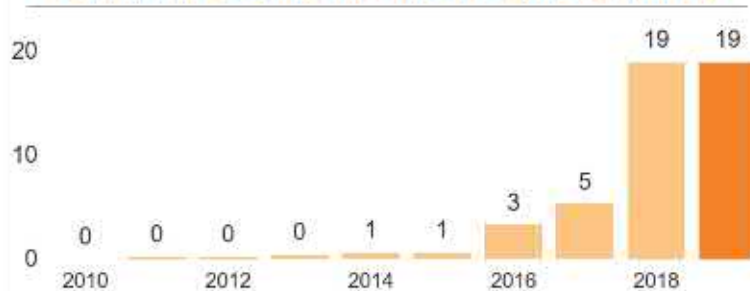
Solar installed capacity Growth rate
(CAGR) for 2015-19

130%

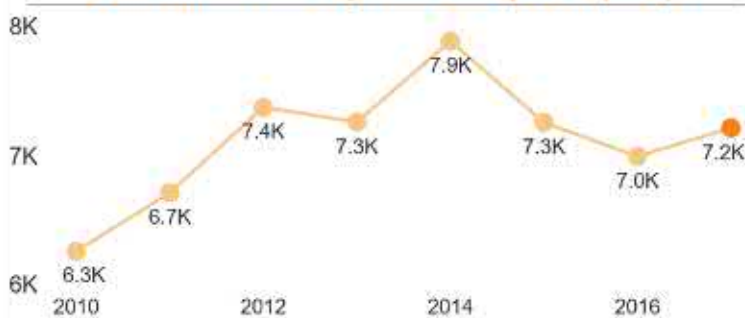
Africa

Power Trends

Cumulative Solar installed Capacity (MW)

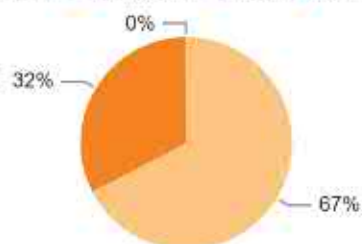


Overall Electricity Consumption (MU)

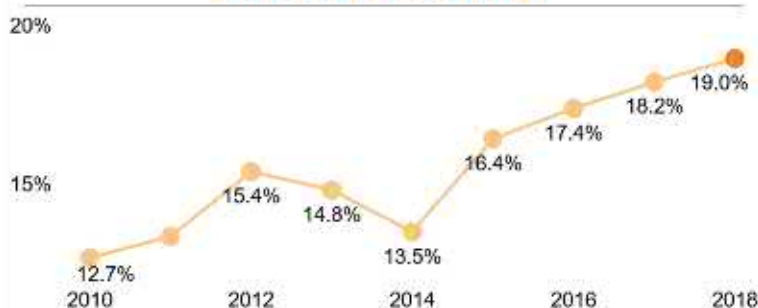


Consumer Mix

Commercial & Industrial Residential Others Agricultural



Access to Electricity

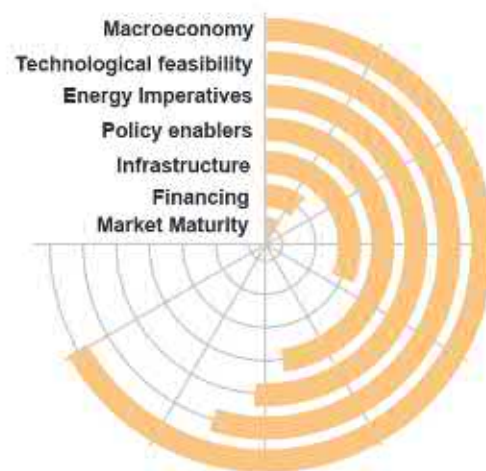


Ease of Doing Solar Classification

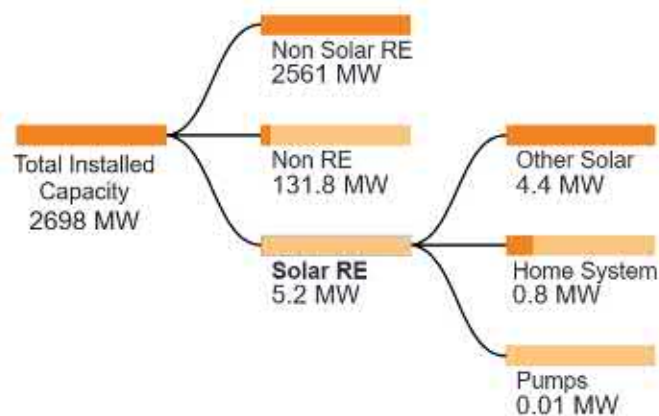


Potential

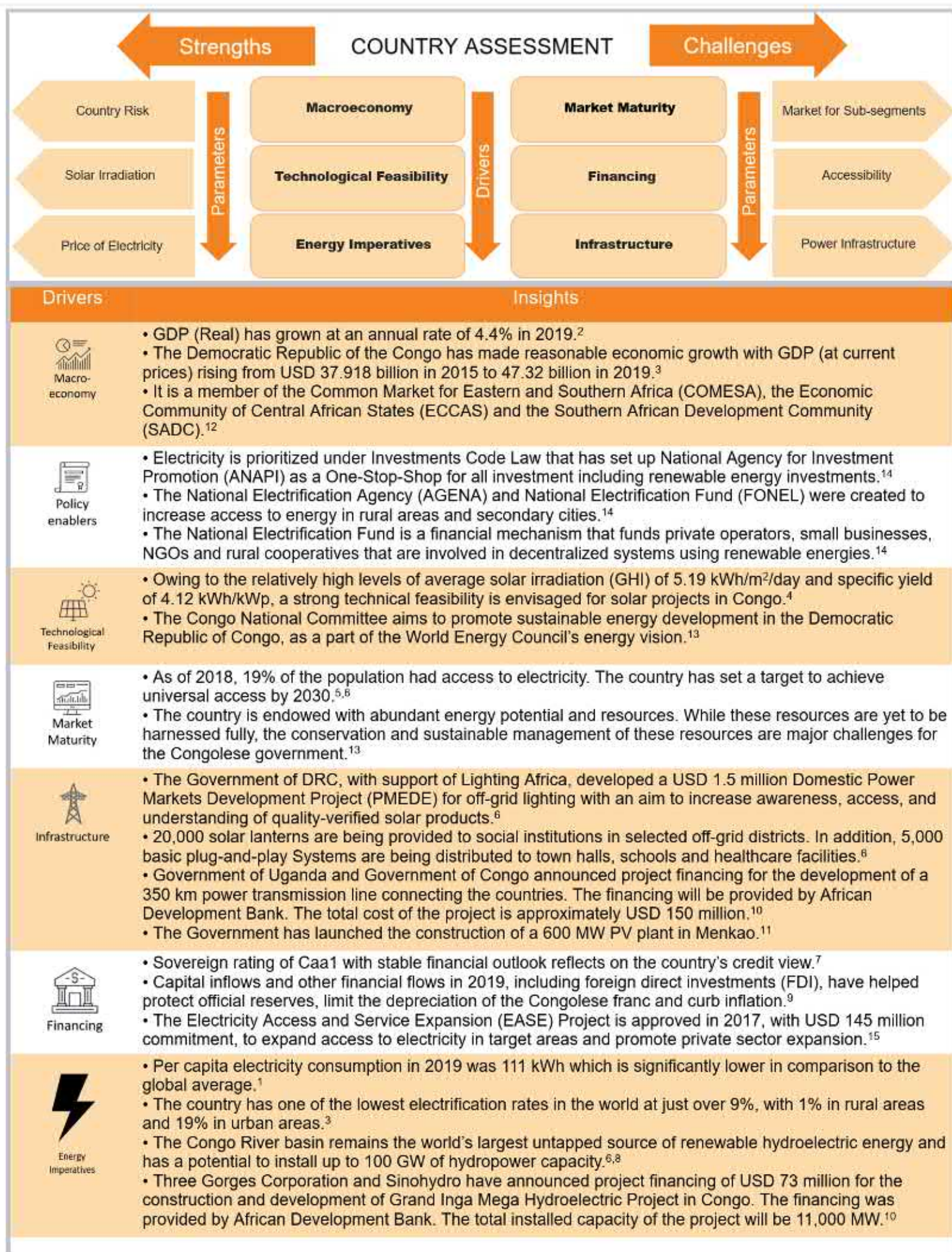
Performance against 7 Drivers

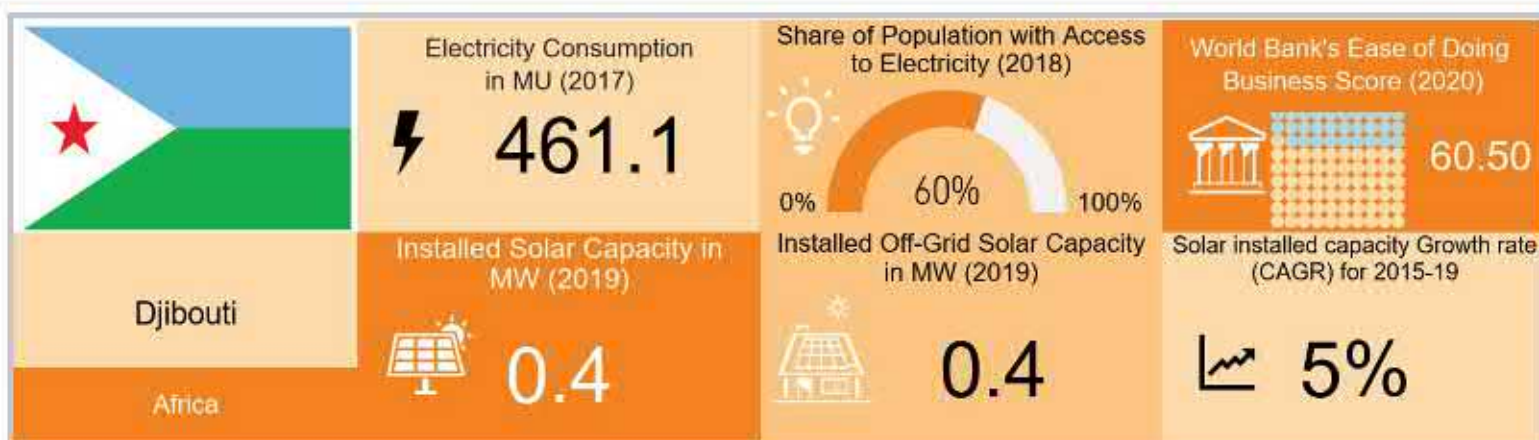


Installed Generation Capacity by Source



Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



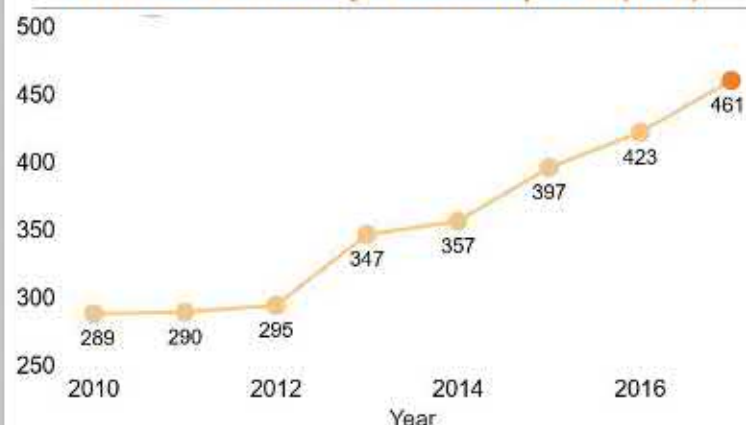


Power Trends

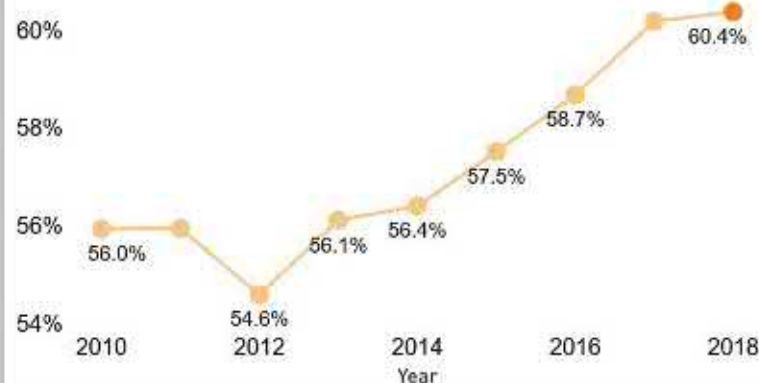
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



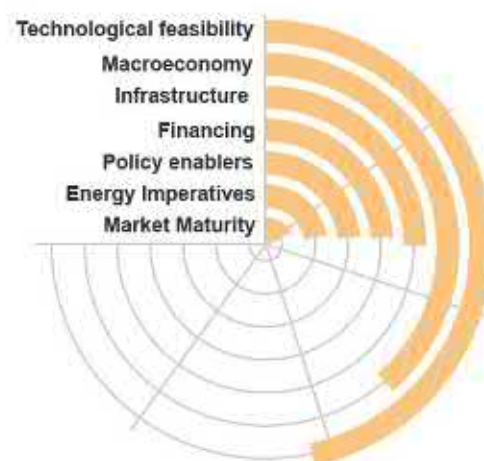
Access to Electricity



Ease of Doing Solar Classification

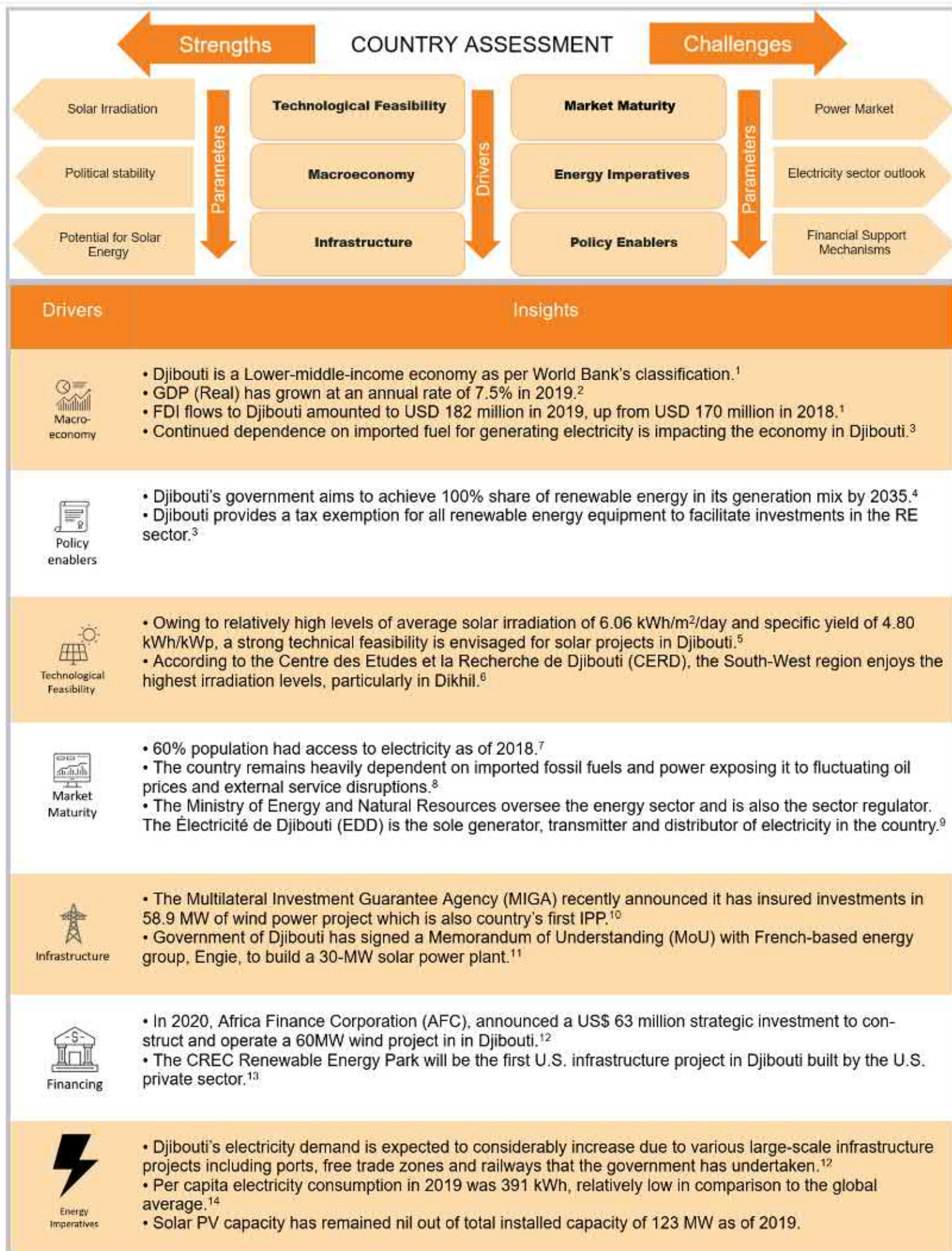


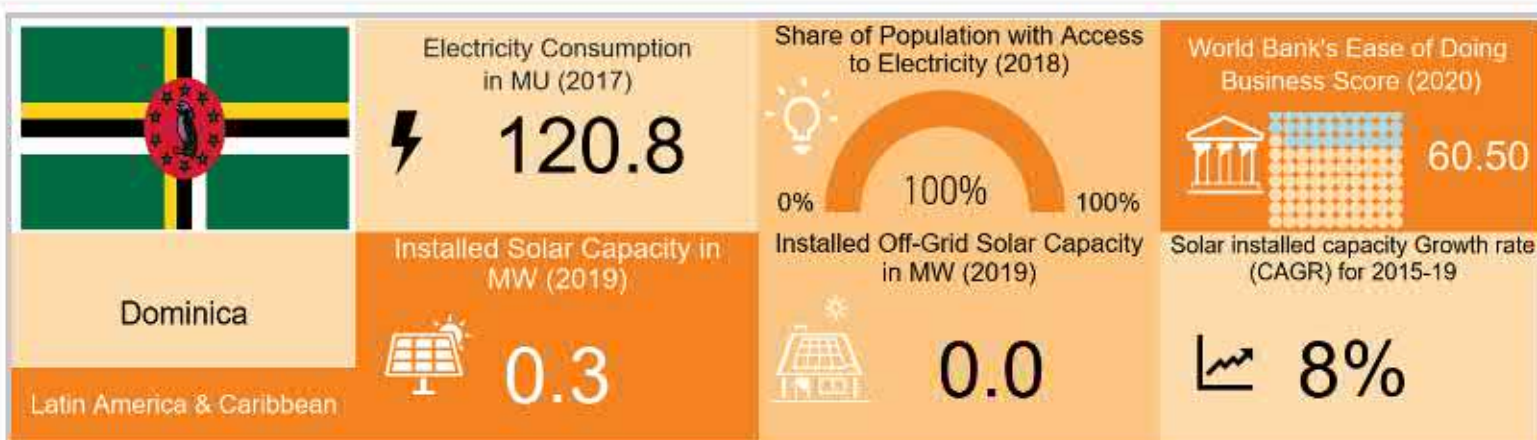
Performance against 7 Drivers



Sub-regional standing

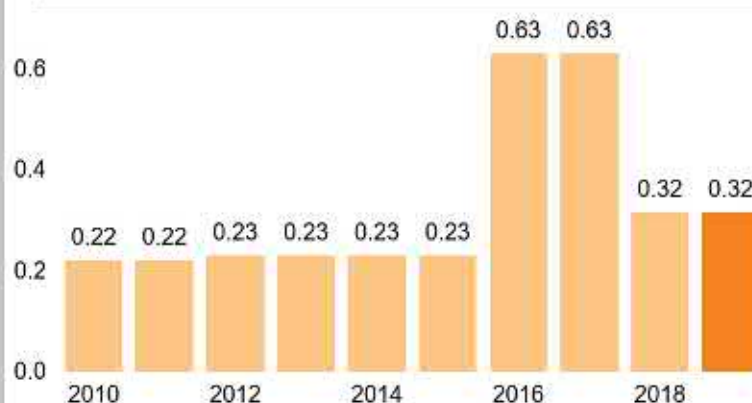






Power Trends

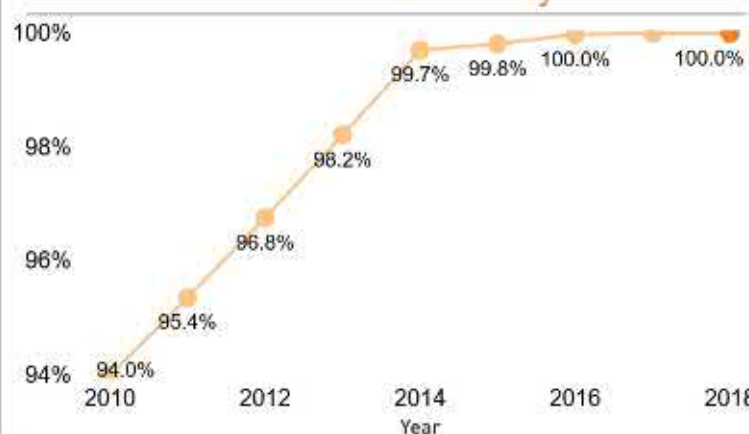
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



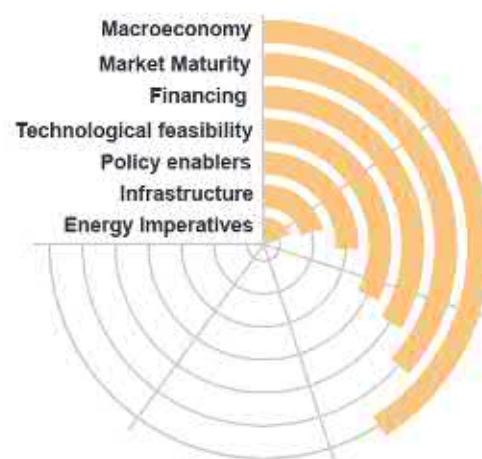
Access to Electricity



Ease of Doing Solar Classification

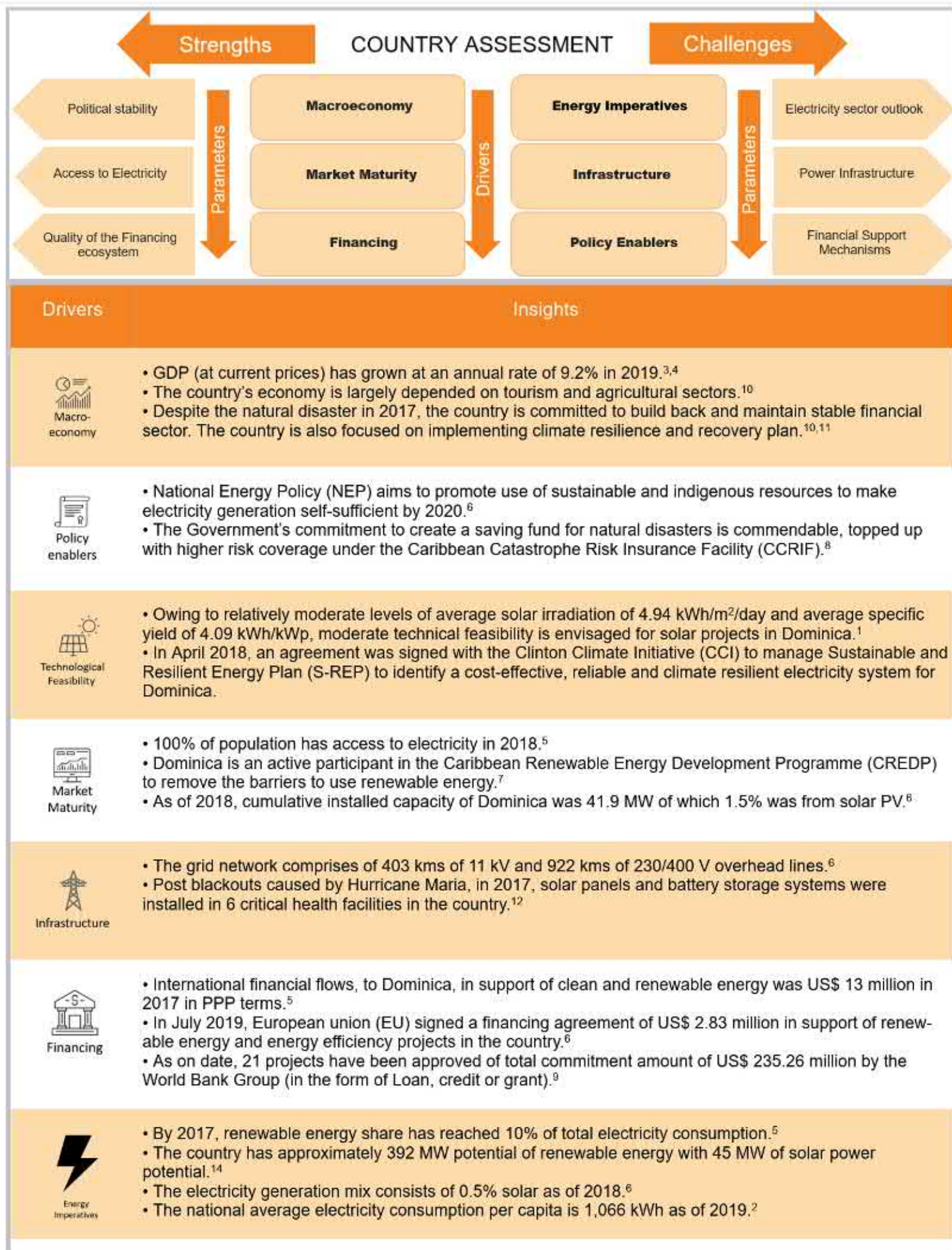


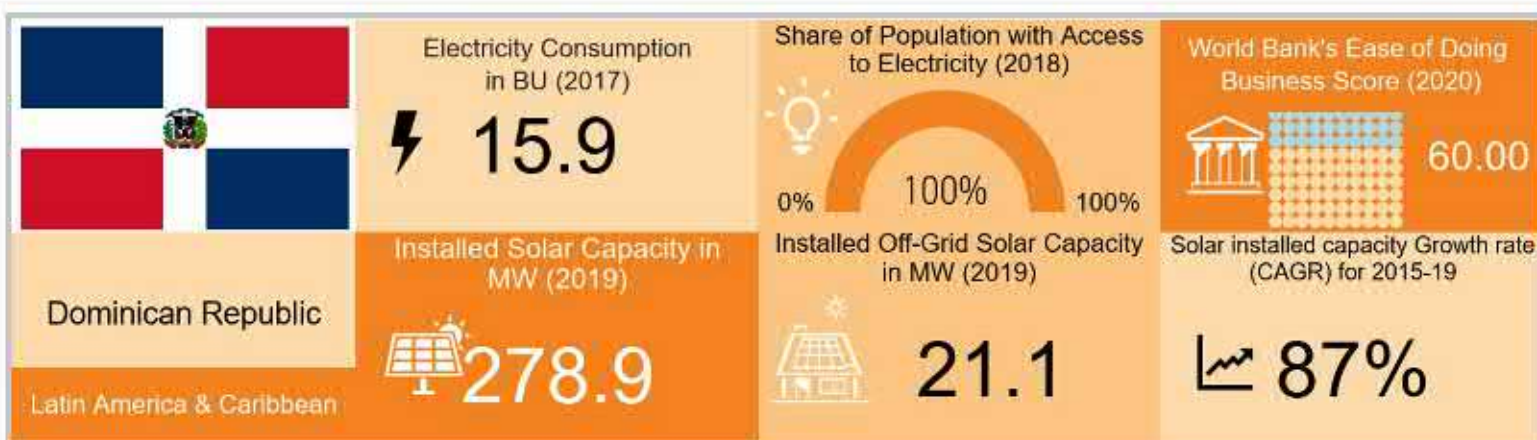
Performance against 7 Drivers



Sub-regional standing

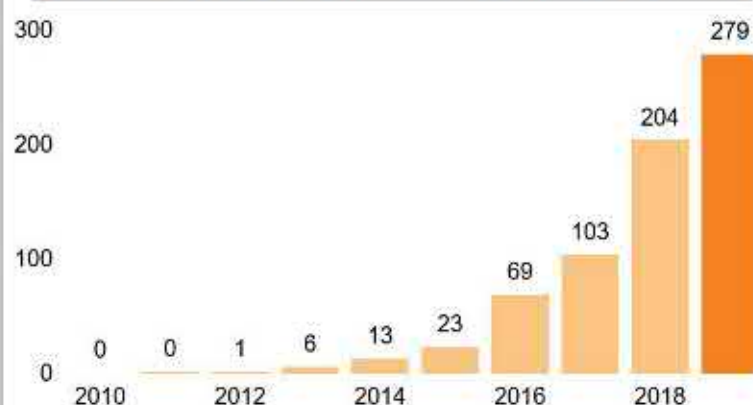




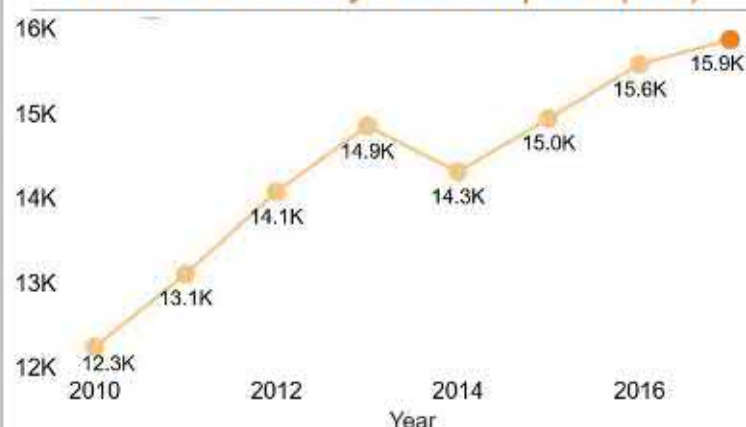


Power Trends

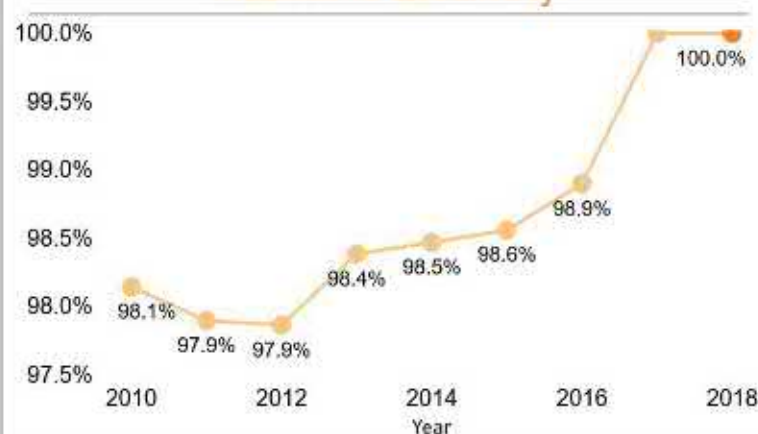
Cumulative Solar installed Capacity (MW)



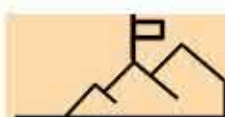
Overall Electricity Consumption (MU)



Access to Electricity

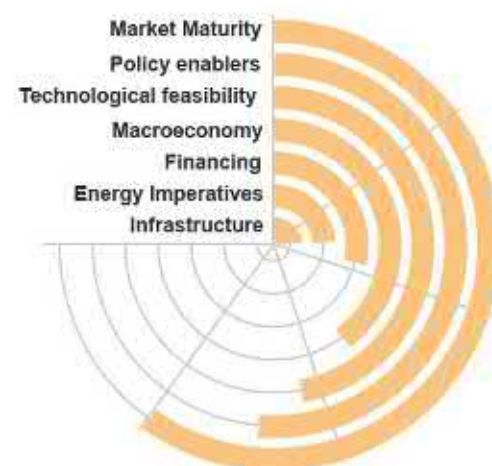


Ease of Doing Solar Classification



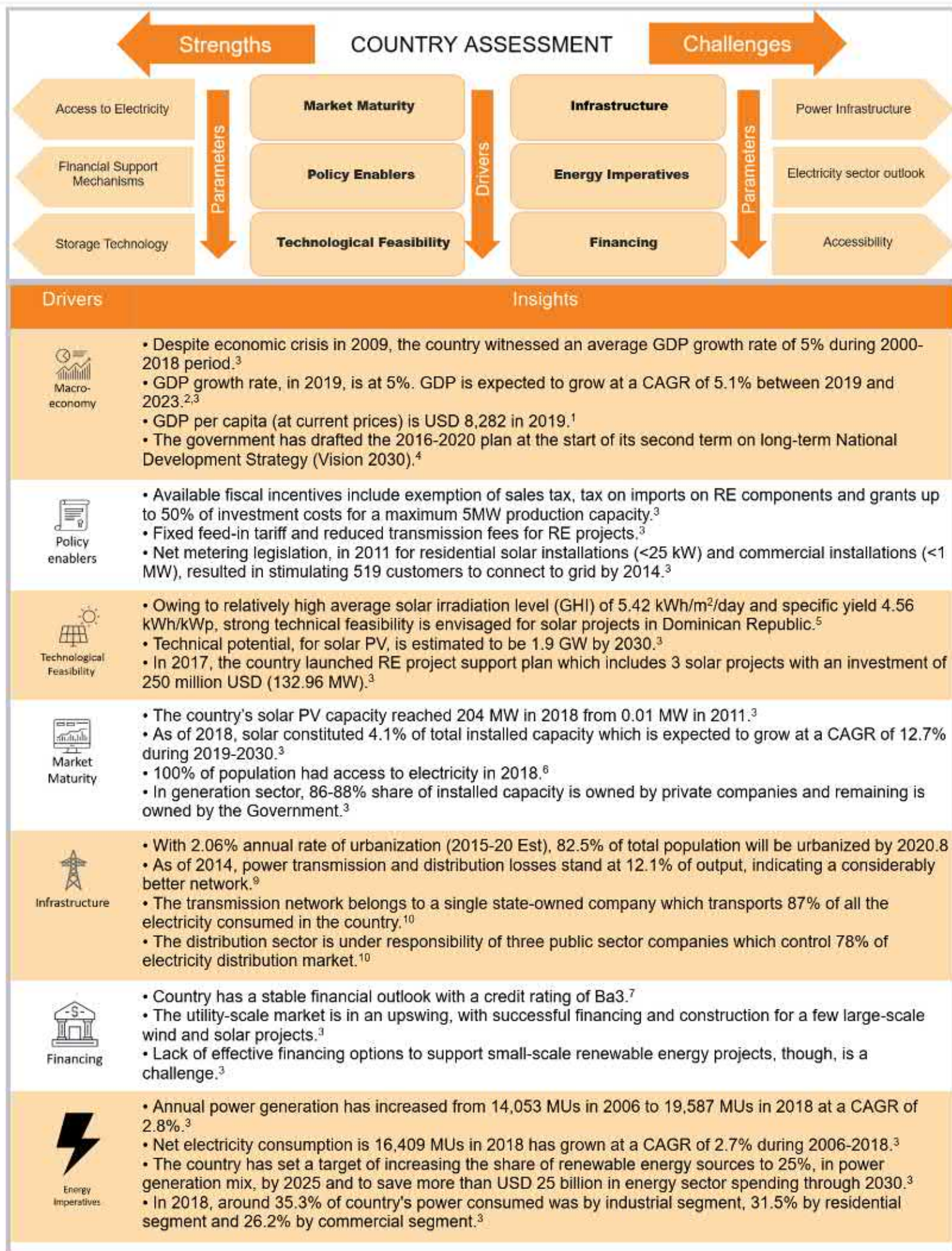
Influencer

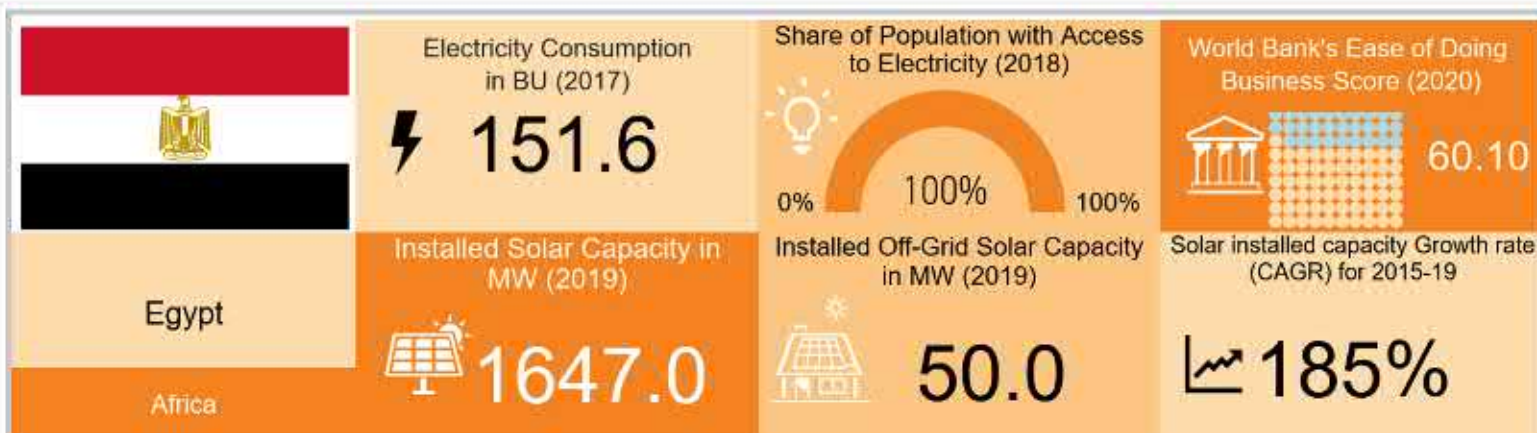
Performance against 7 Drivers



Sub-regional standing

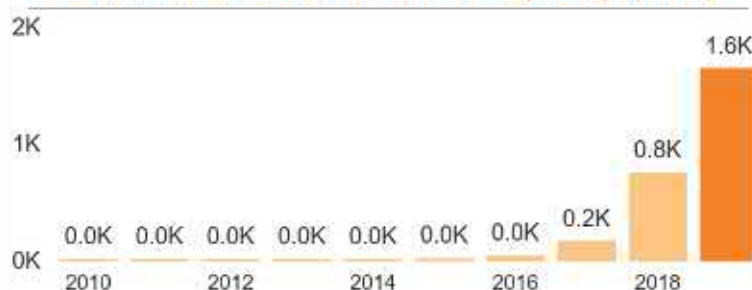




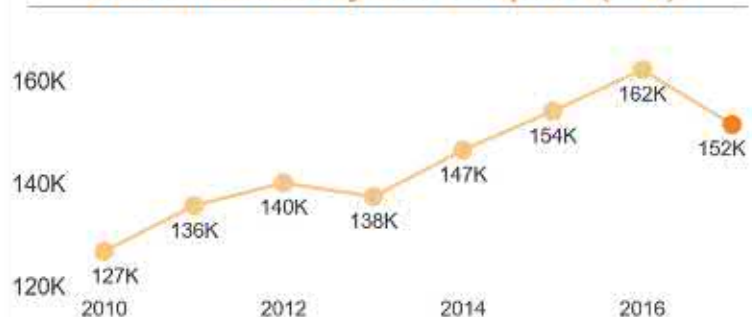


Power Trends

Cumulative Solar installed Capacity (MW)

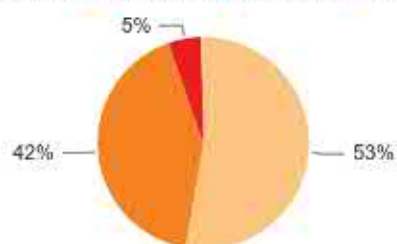


Overall Electricity Consumption (MU)

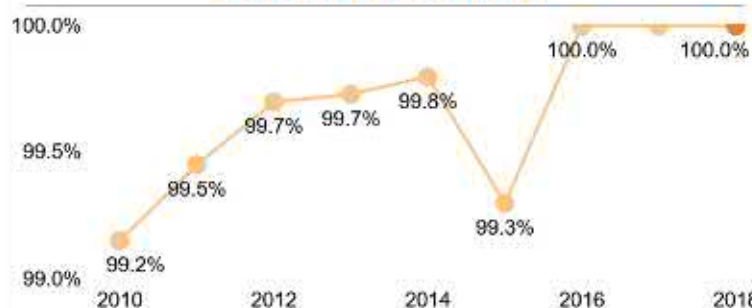


Consumer Mix

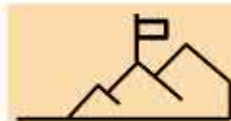
Commercial & Industrial Residential Agricultural Others



Access to Electricity

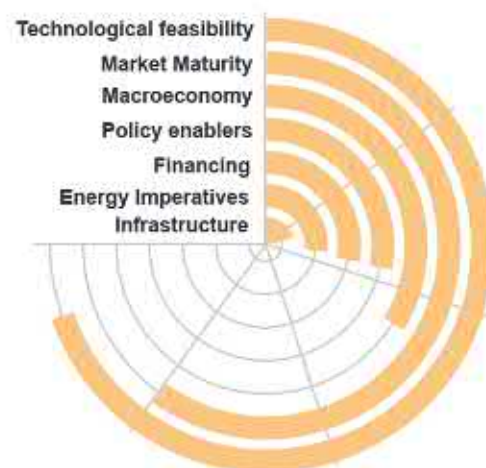


Ease of Doing Solar Classification

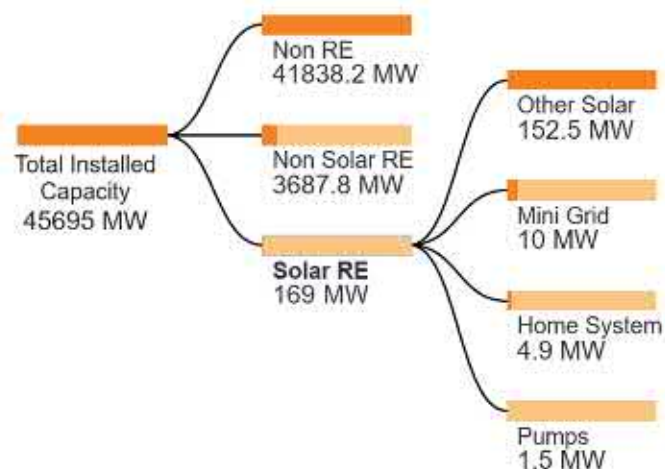


Influencer

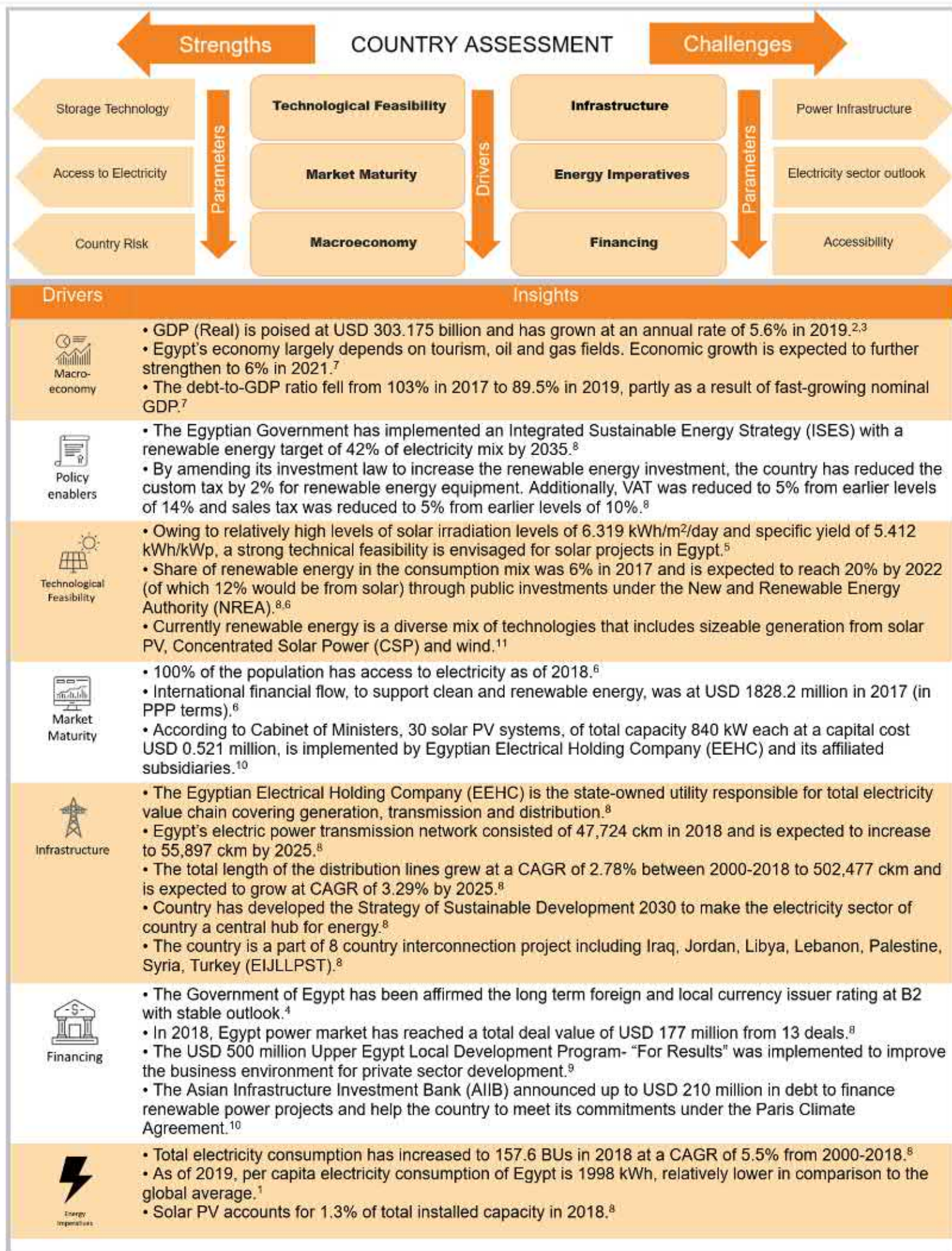
Performance against 7 Drivers

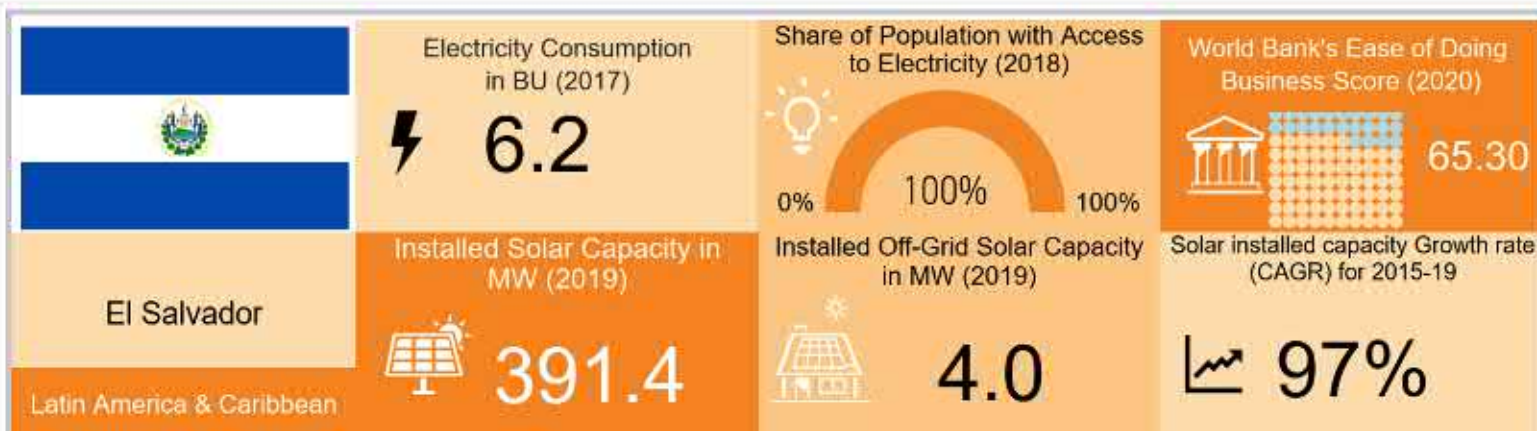


Installed Generation Capacity by Source



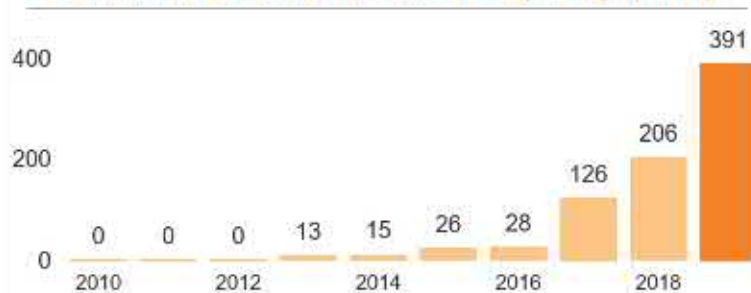
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
 Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
 Other Solar includes Utility Scale Solar, Rooftop etc.;
 Year: 2017.



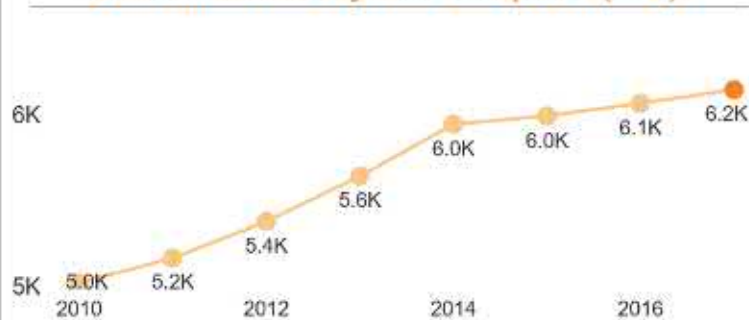


Power Trends

Cumulative Solar installed Capacity (MW)

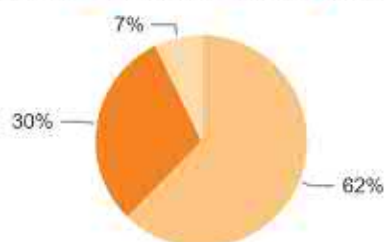


Overall Electricity Consumption (MU)



Consumer Mix

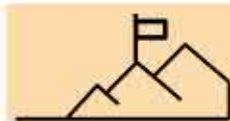
Commercial & Industrial Residential Others Agricultural



Access to Electricity

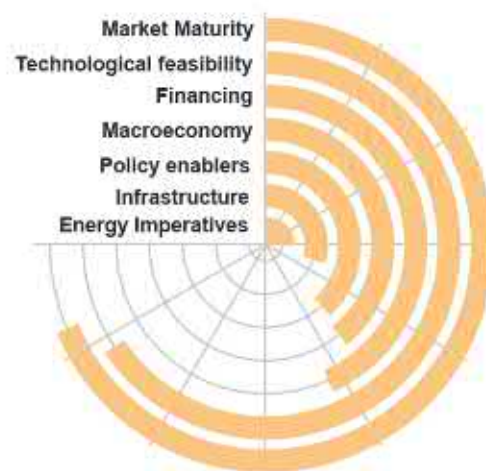


Ease of Doing Solar Classification

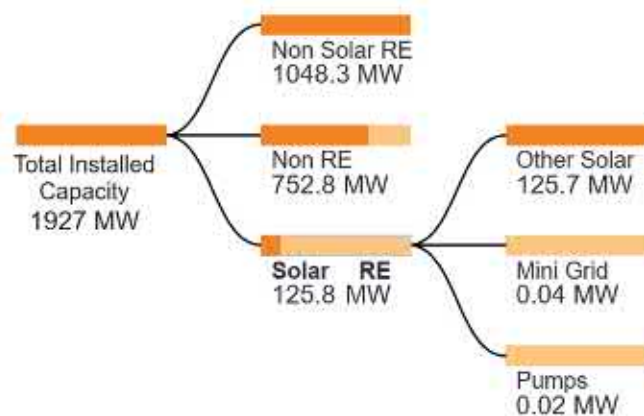


Influencer

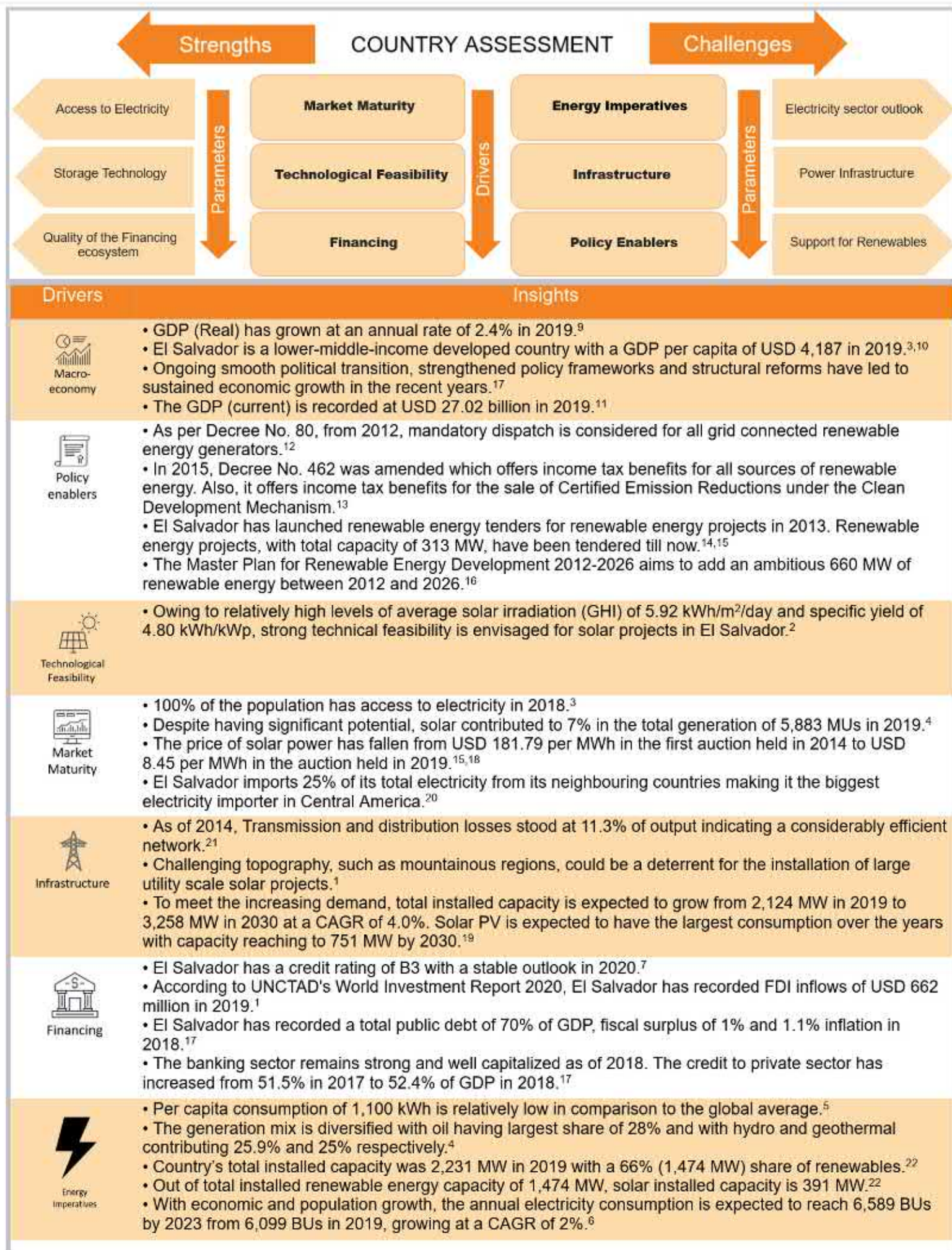
Performance against 7 Drivers

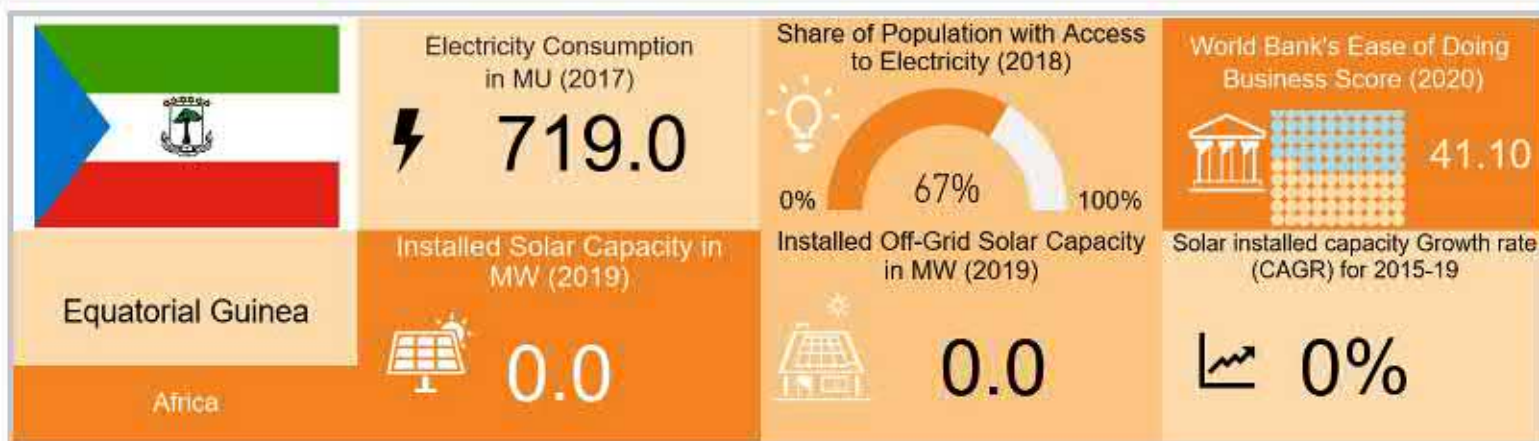


Installed Generation Capacity by Source



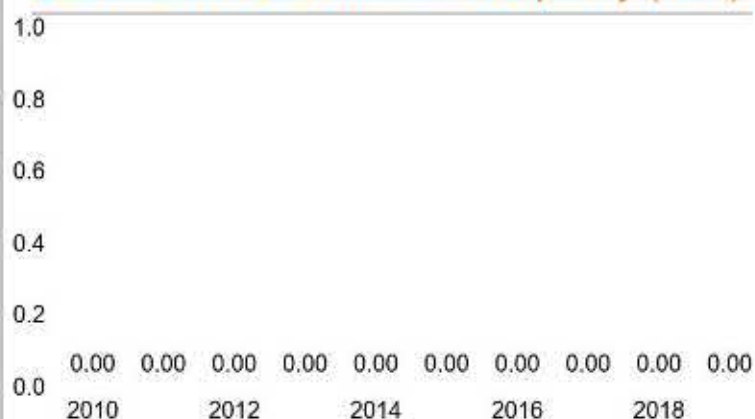
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 Year: 2017.



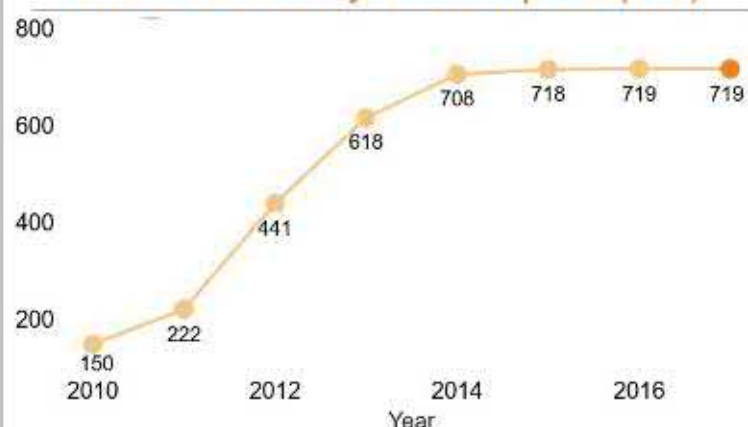


Power Trends

Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

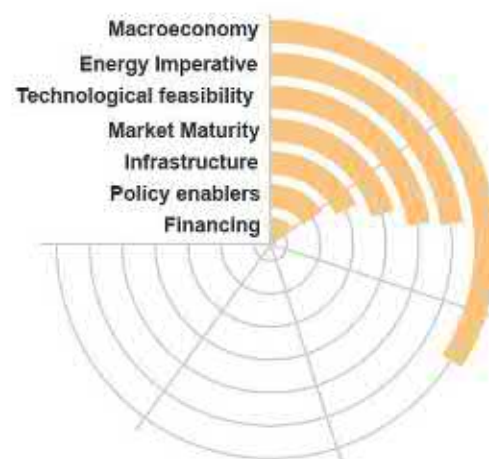


Ease of Doing Solar Classification



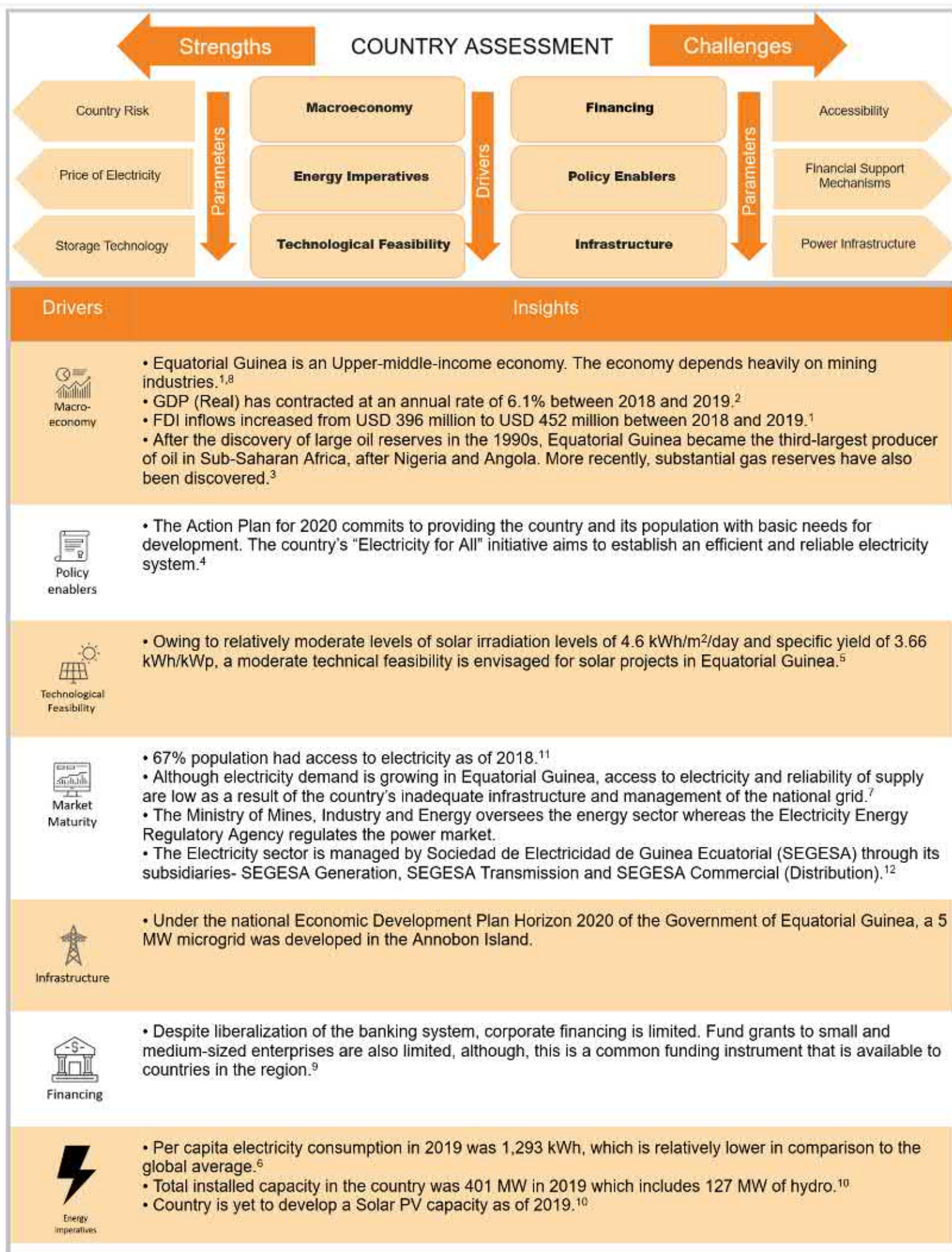
Potential

Performance against 7 Drivers



Sub-regional standing







Eritrea

Africa

Electricity Consumption
in MU (2017)

327.0

Share of Population with Access
to Electricity (2018)



World Bank's Ease of Doing
Business Score (2020)

21.60

Installed Solar Capacity in
MW (2019)

12.5

Installed Off-Grid Solar Capacity
in MW (2019)

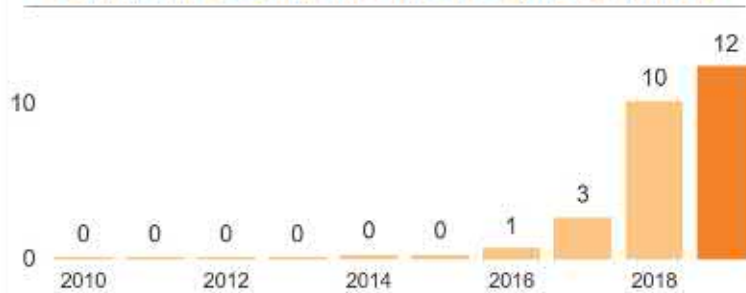
12.5

Solar installed capacity Growth rate
(CAGR) for 2015-19

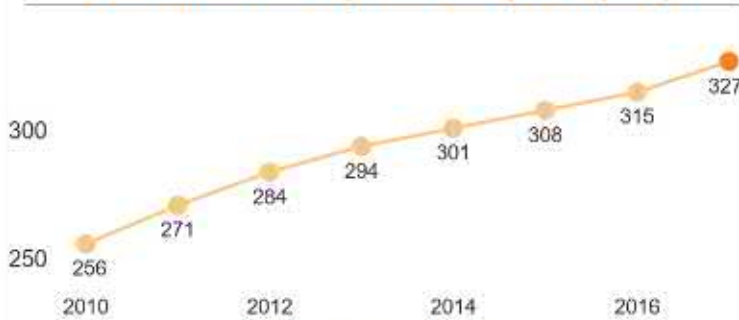
151%

Power Trends

Cumulative Solar installed Capacity (MW)

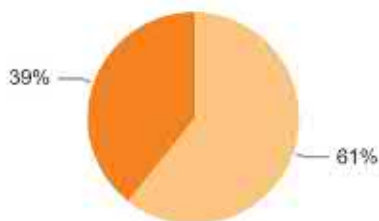


Overall Electricity Consumption (MU)

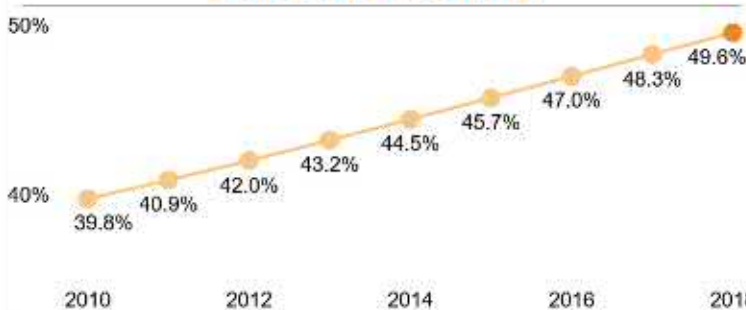


Consumer Mix

Commercial & Industrial Residential Agricultural Others



Access to Electricity



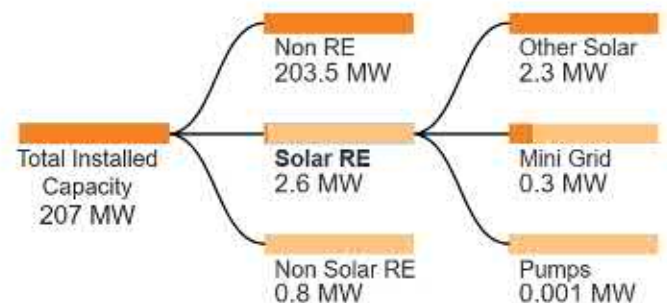
Ease of Doing Solar Classification



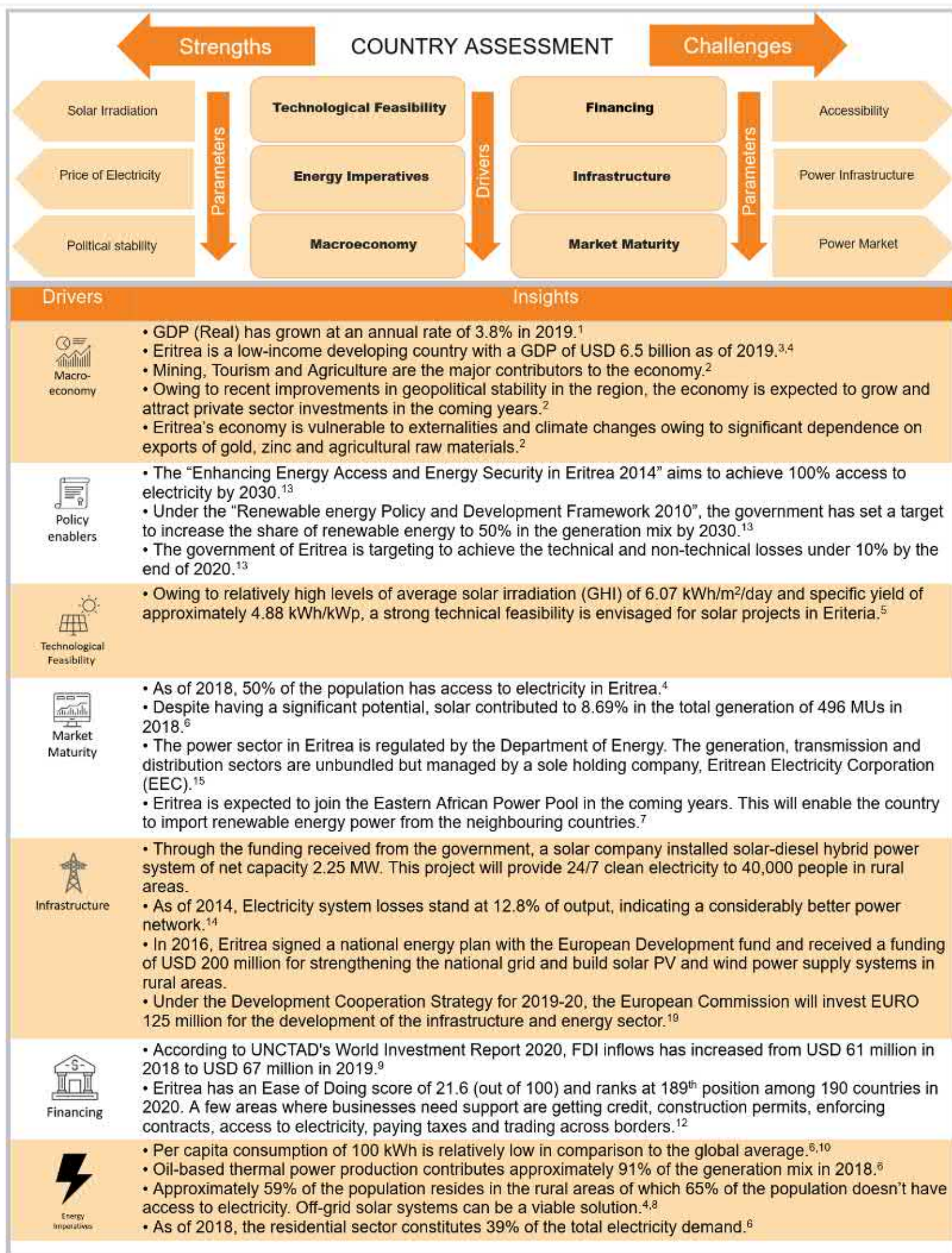
Performance against 7 Drivers

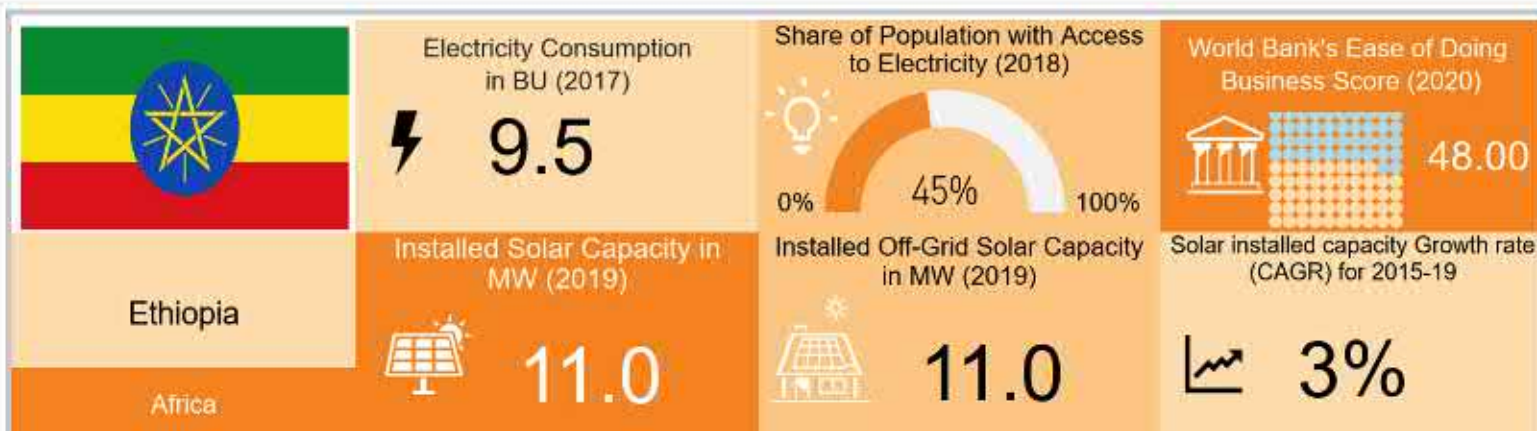


Installed Generation Capacity by Source



Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



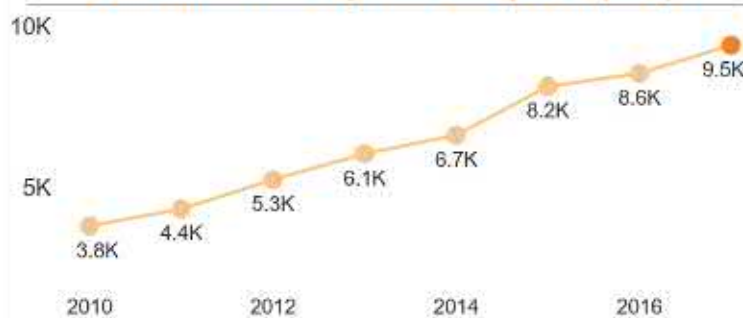


Power Trends

Cumulative Solar installed Capacity (MW)

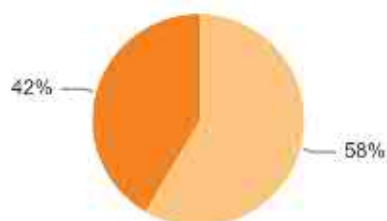


Overall Electricity Consumption (MU)

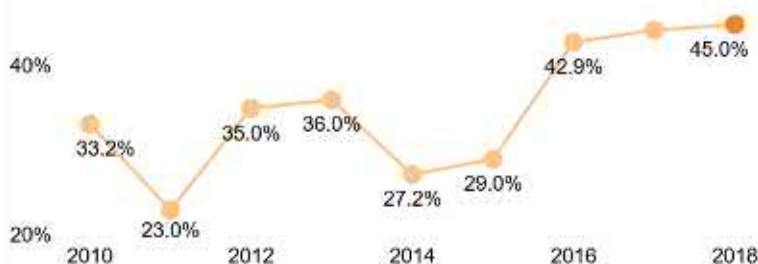


Consumer Mix

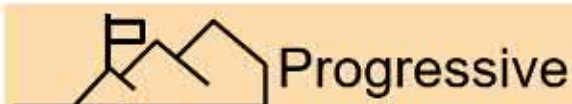
Commercial & Industrial Residential Agricultural Others



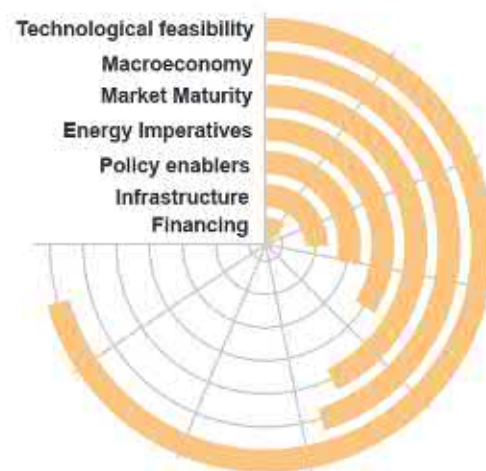
Access to Electricity



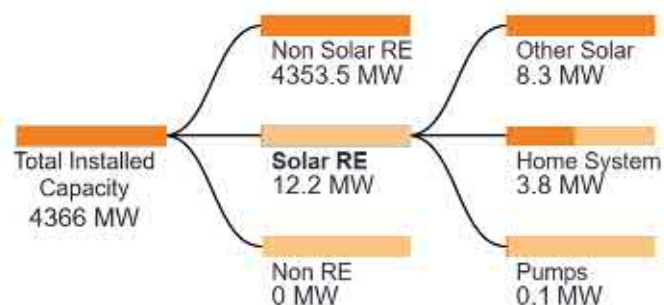
Ease of Doing Solar Classification



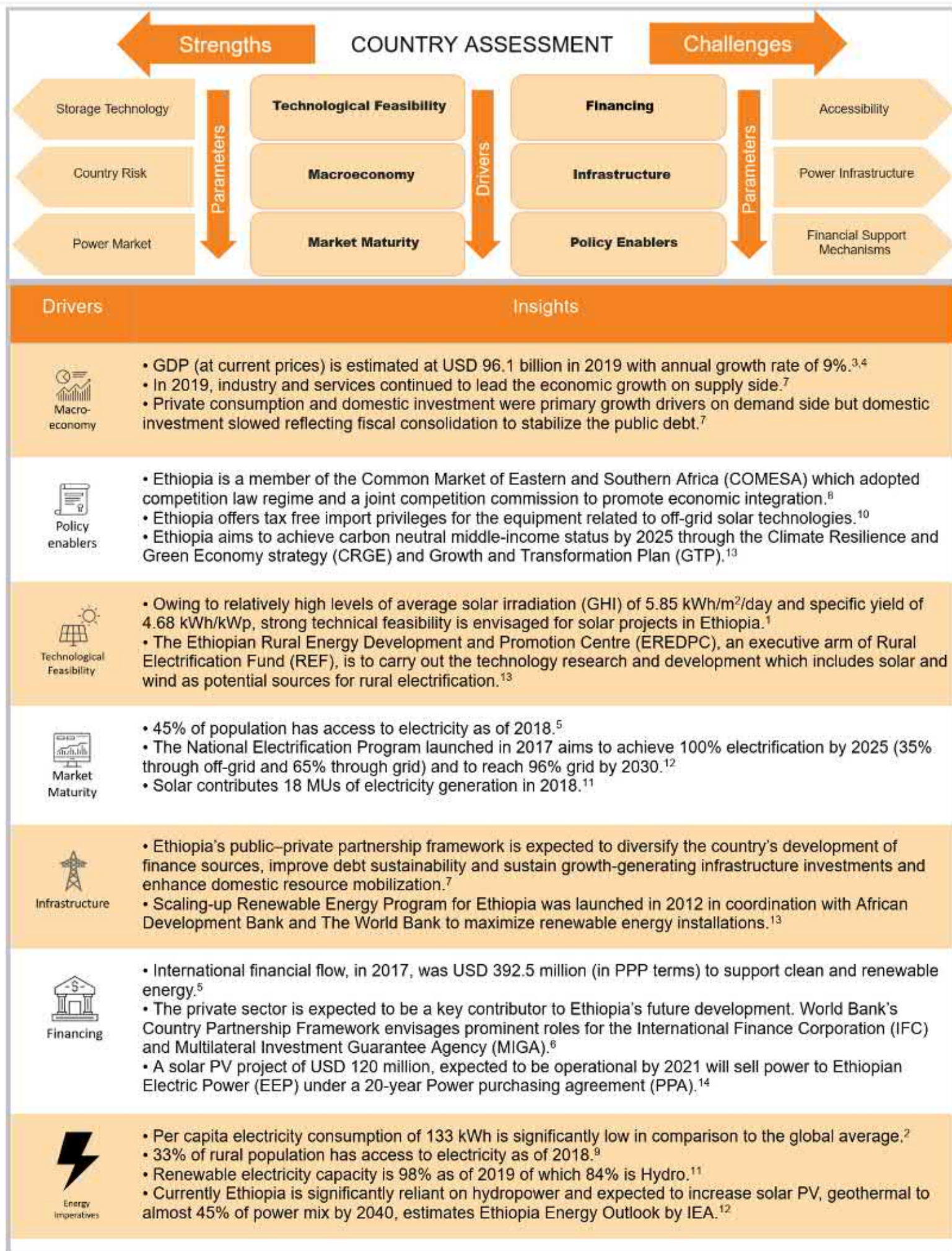
Performance against 7 Drivers

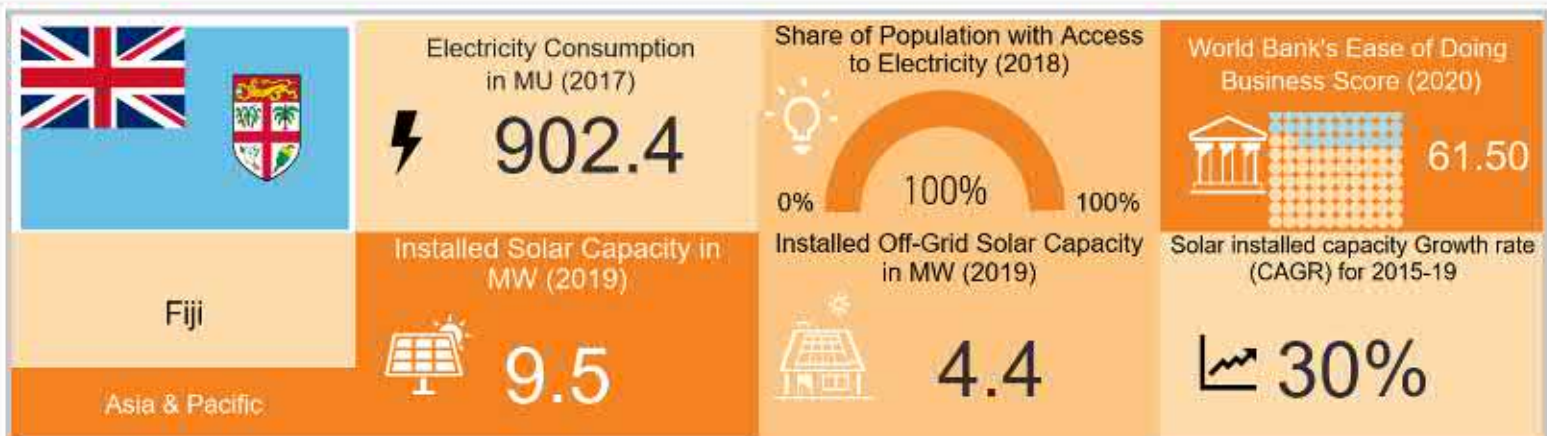


Installed Generation Capacity by Source



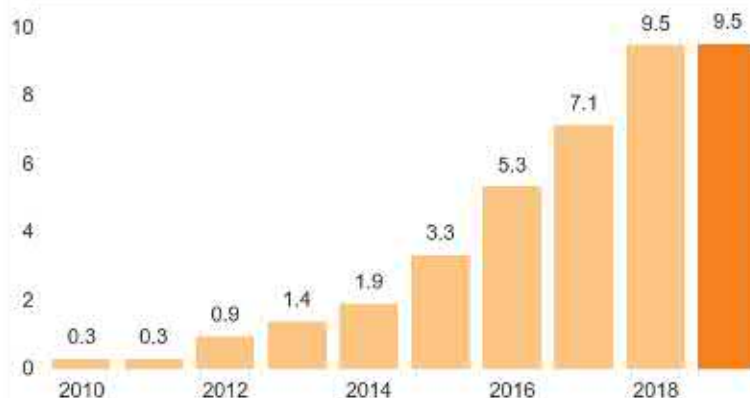
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
 Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
 Other Solar includes Utility Scale Solar, Rooftop etc.;
 Year: 2017.





Power Trends

Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

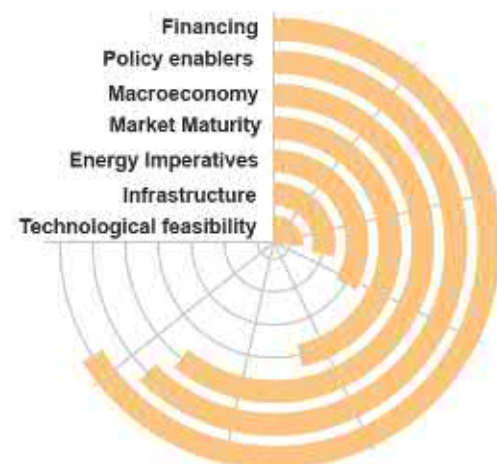


Ease of Doing Solar Classification

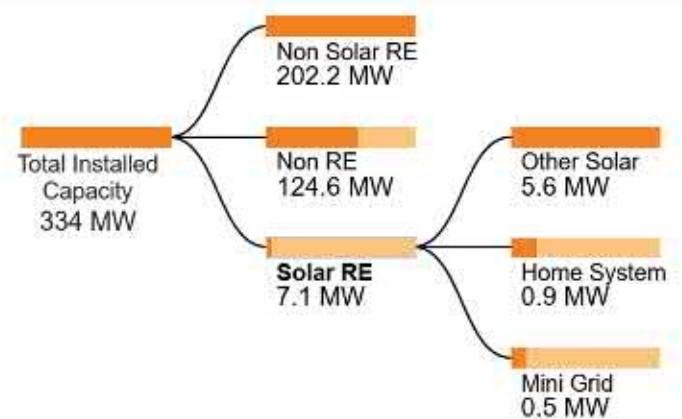


Influencer

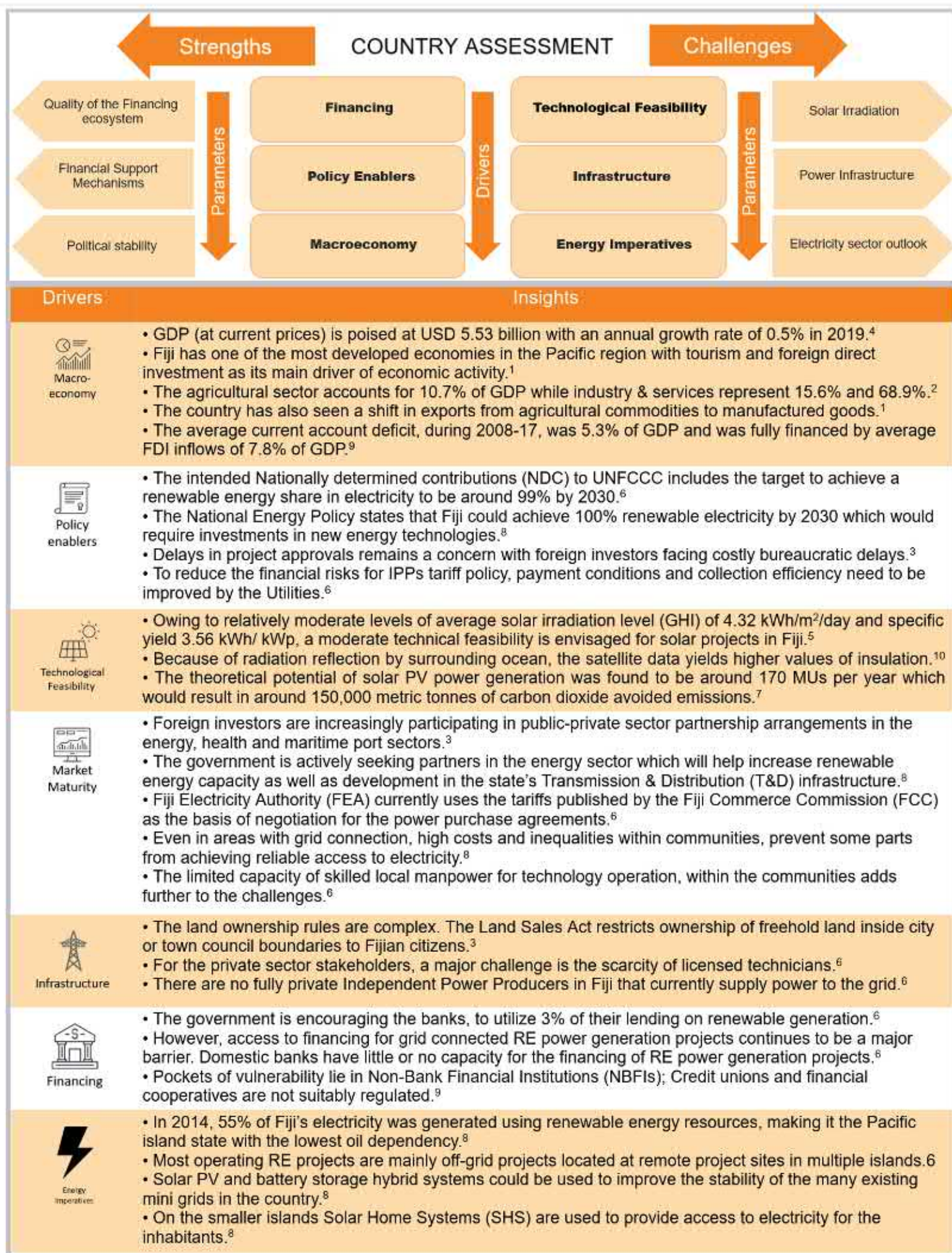
Performance against 7 Drivers

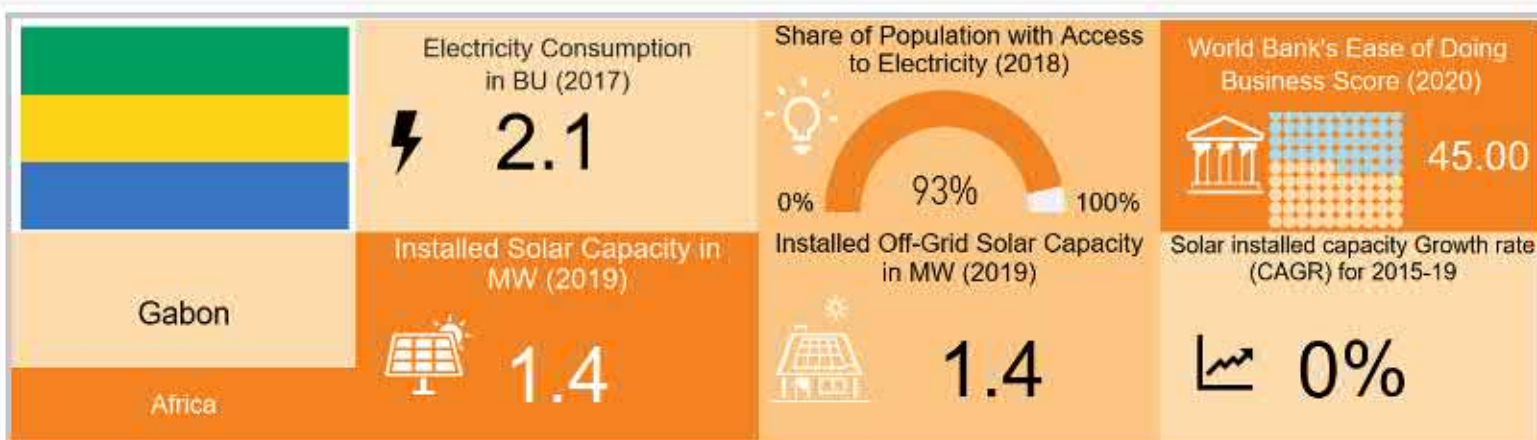


Installed Generation Capacity by Source



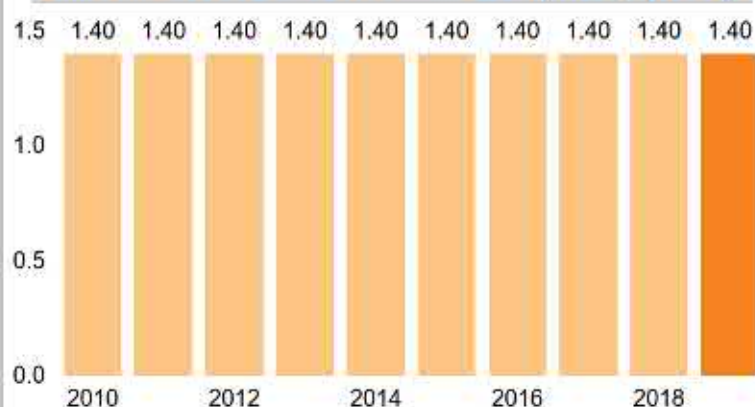
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
 Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
 Other Solar includes Utility Scale Solar, Rooftop etc.;
 Year: 2017.



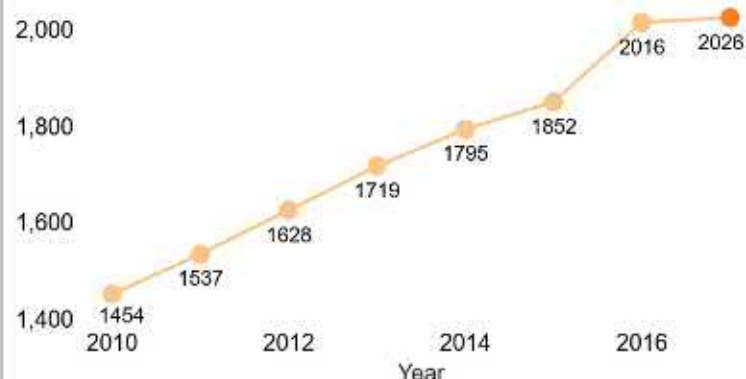


Power Trends

Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity



Ease of Doing Solar Classification



Potential

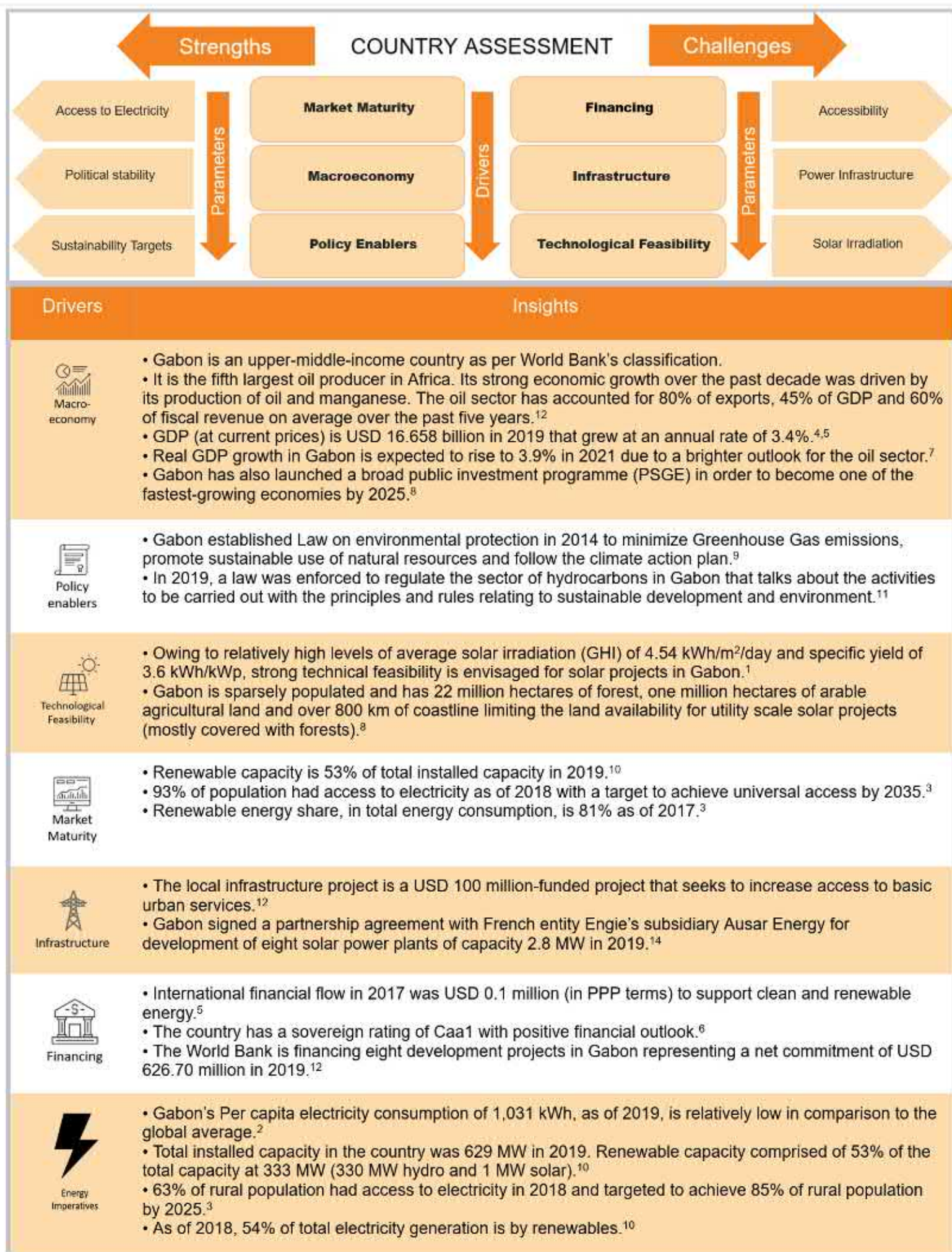
Performance against 7 Drivers



Sub-regional standing



● Neutral
 ● Beginner
 ● Progressive
 ● Influencer

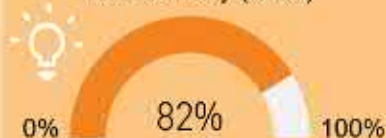




Electricity Consumption
in BU (2017)

⚡ 12.2

Share of Population with Access
to Electricity (2018)



World Bank's Ease of Doing
Business Score (2020)



Ghana

Installed Solar Capacity in
MW (2019)

☀️ 63.3

Installed Off-Grid Solar Capacity
in MW (2019)

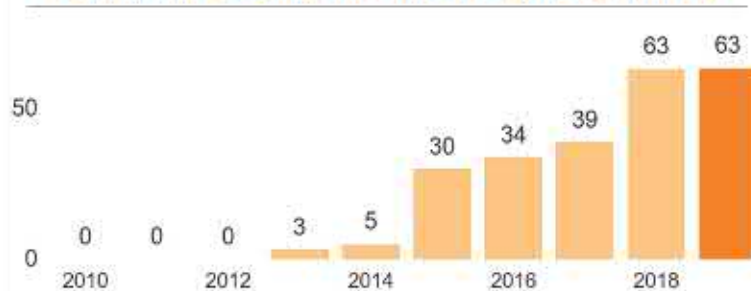
🏠 8.0

Solar installed capacity Growth rate
(CAGR) for 2015-19

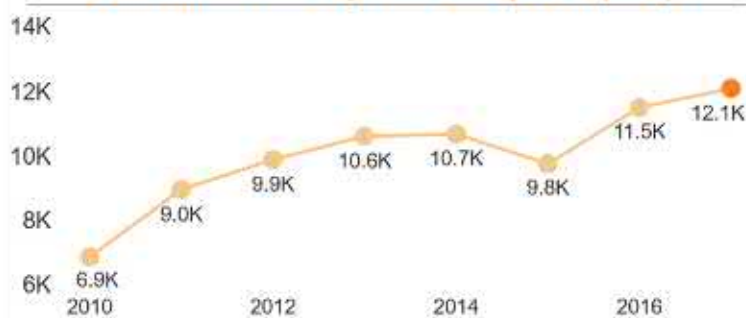
📈 21%

Power Trends

Cumulative Solar installed Capacity (MW)

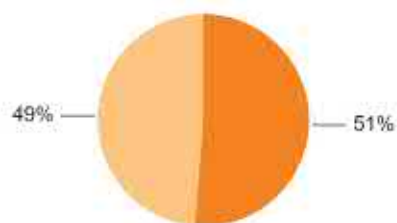


Overall Electricity Consumption (MU)

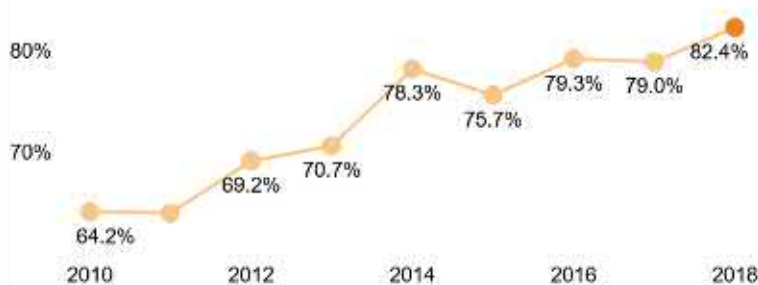


Consumer Mix

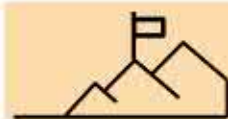
● Residential ● Commercial & Industrial ● Agricultural ● Others



Access to Electricity

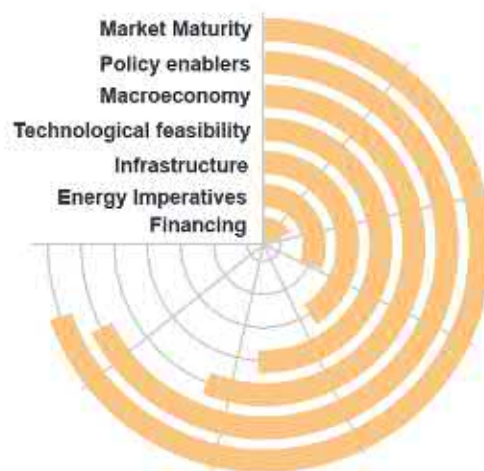


Ease of Doing Solar Classification

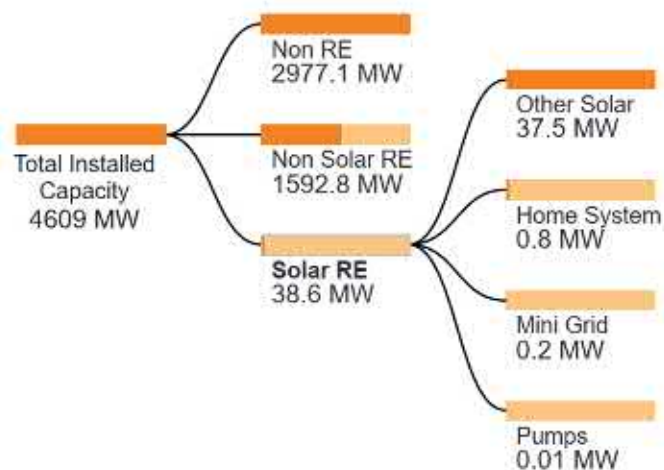


Influencer

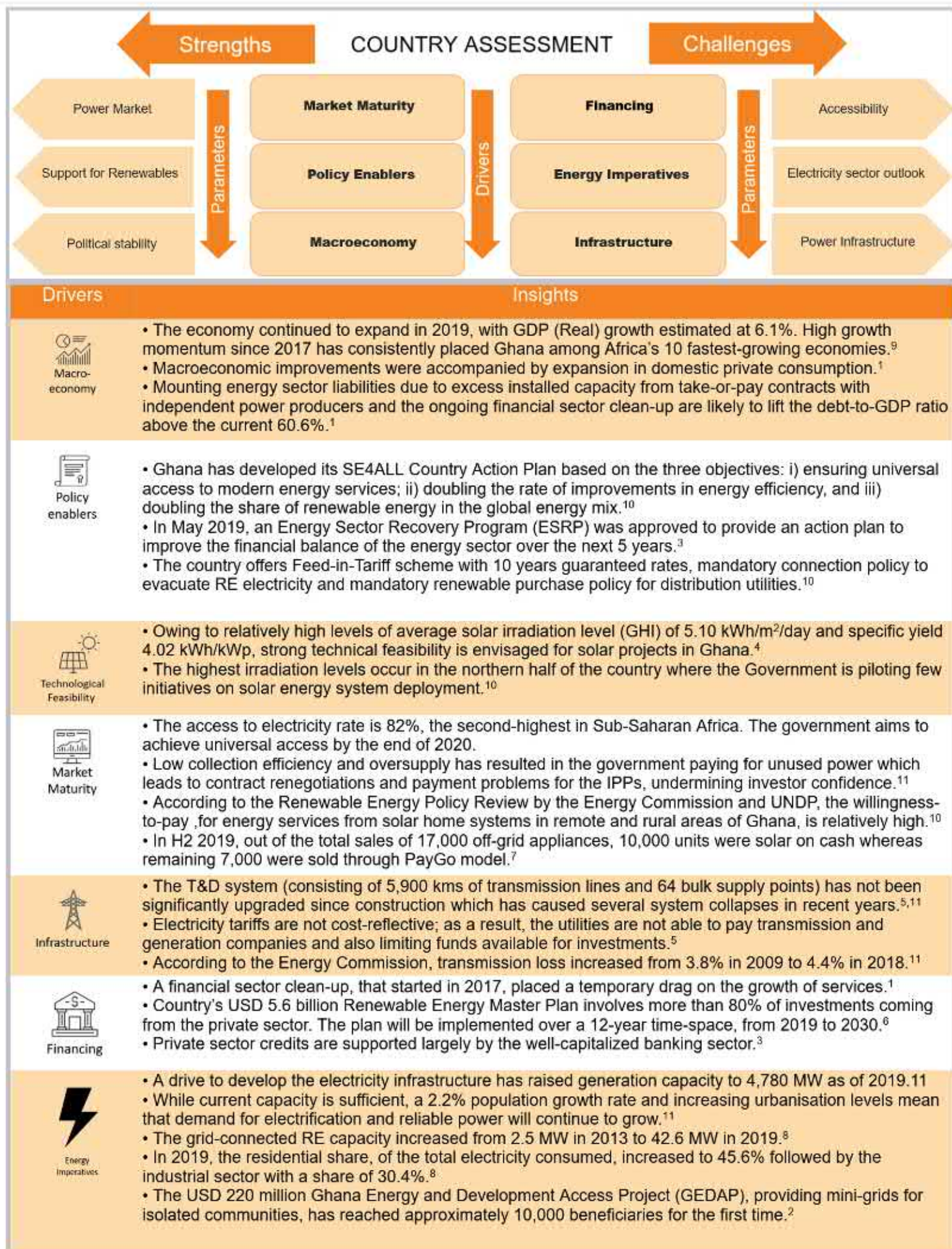
Performance against 7 Drivers



Installed Generation Capacity by Source



Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.





Grenada

Latin America & Caribbean

Electricity Consumption
in MU (2017)

196.1

Installed Solar Capacity in
MW (2019)



3.2

Share of Population with Access
to Electricity (2018)



0% 95% 100%

Installed Off-Grid Solar Capacity
in MW (2019)



-

World Bank's Ease of Doing
Business Score (2020)



53.40

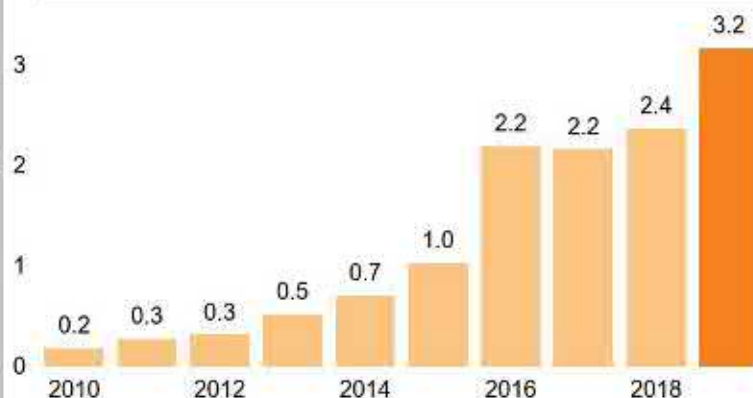
Solar installed capacity Growth rate
(CAGR) for 2015-19



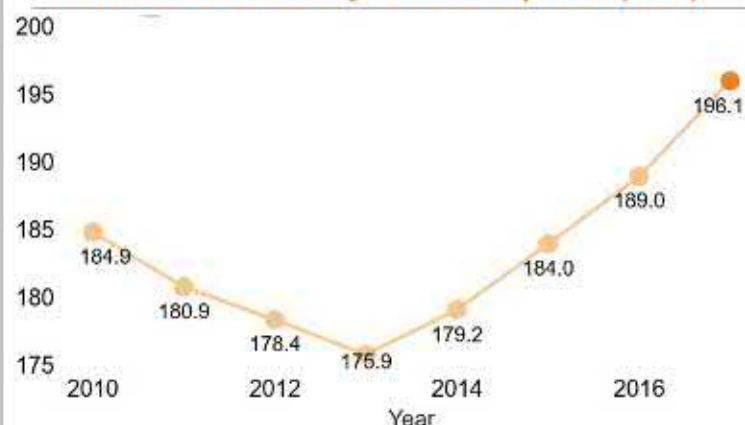
33%

Power Trends

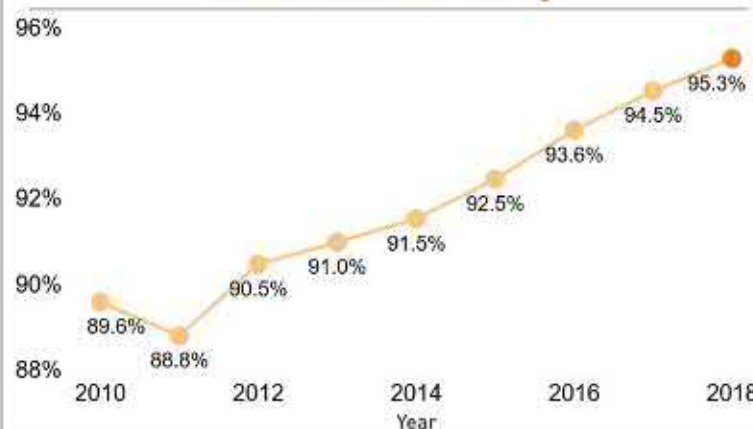
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity



Ease of Doing Solar Classification



Progressive

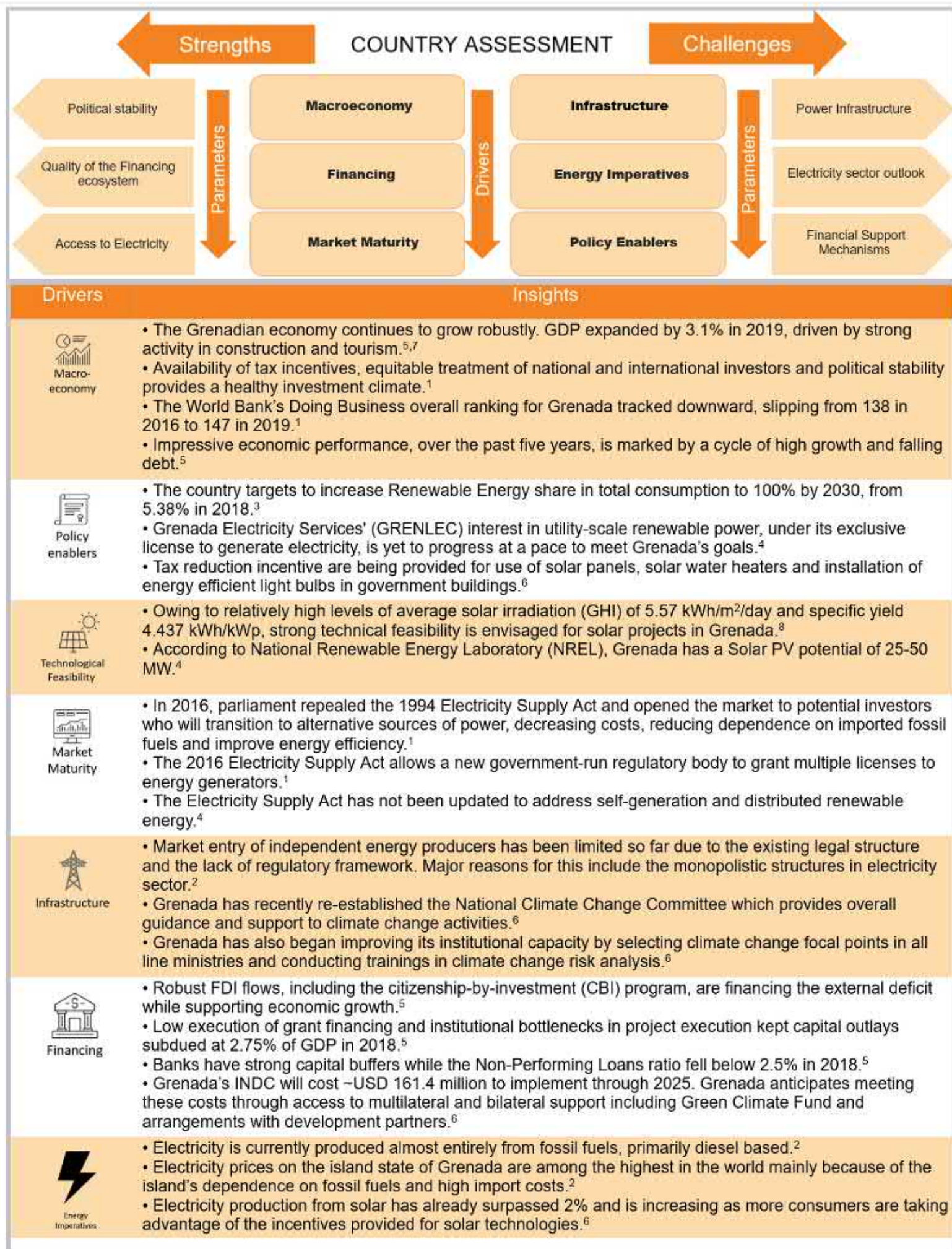
Performance against 7 Drivers

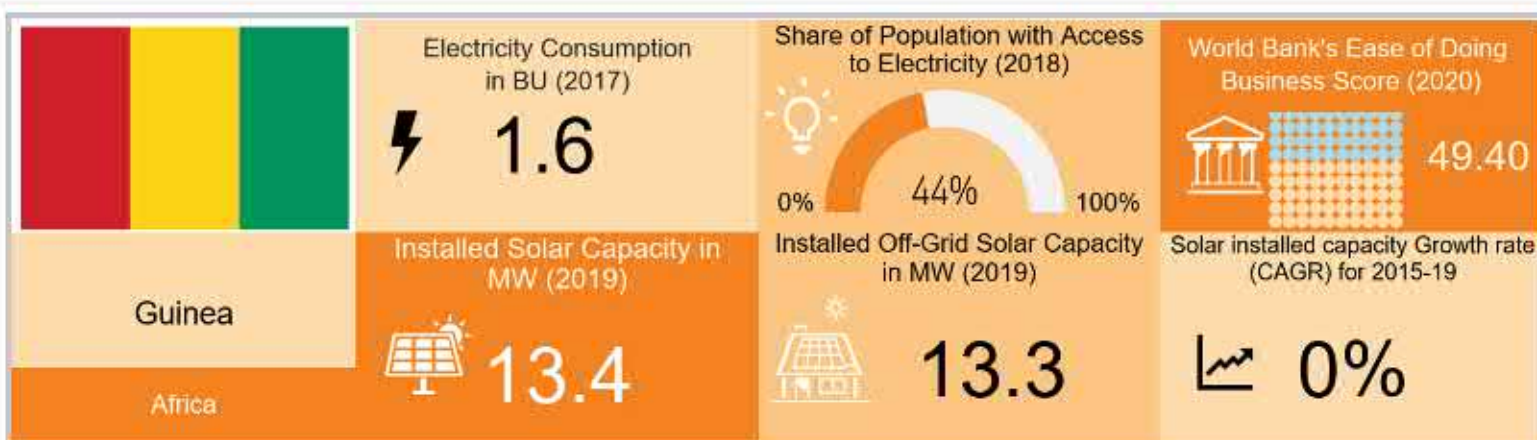


Sub-regional standing



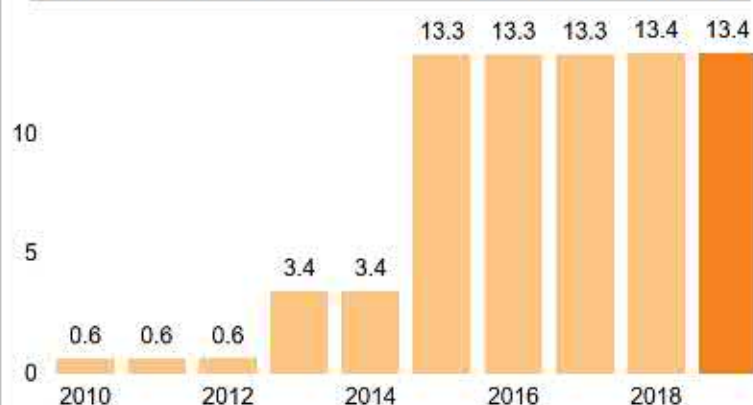
Neutral Beginner Progressive Influencer



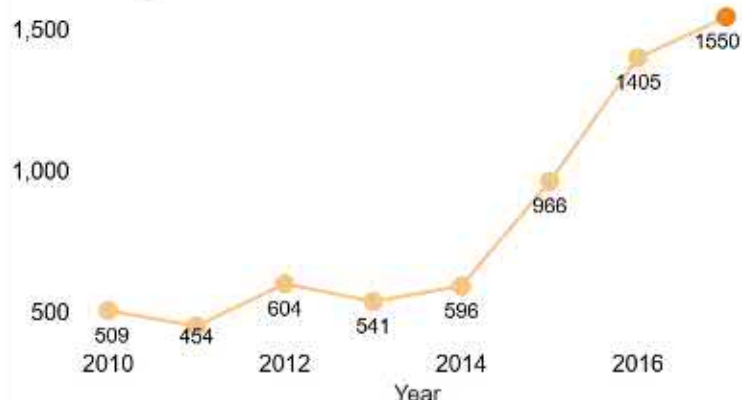


Power Trends

Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

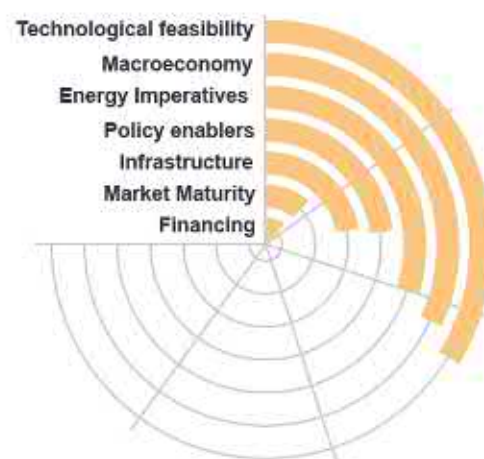


Ease of Doing Solar Classification



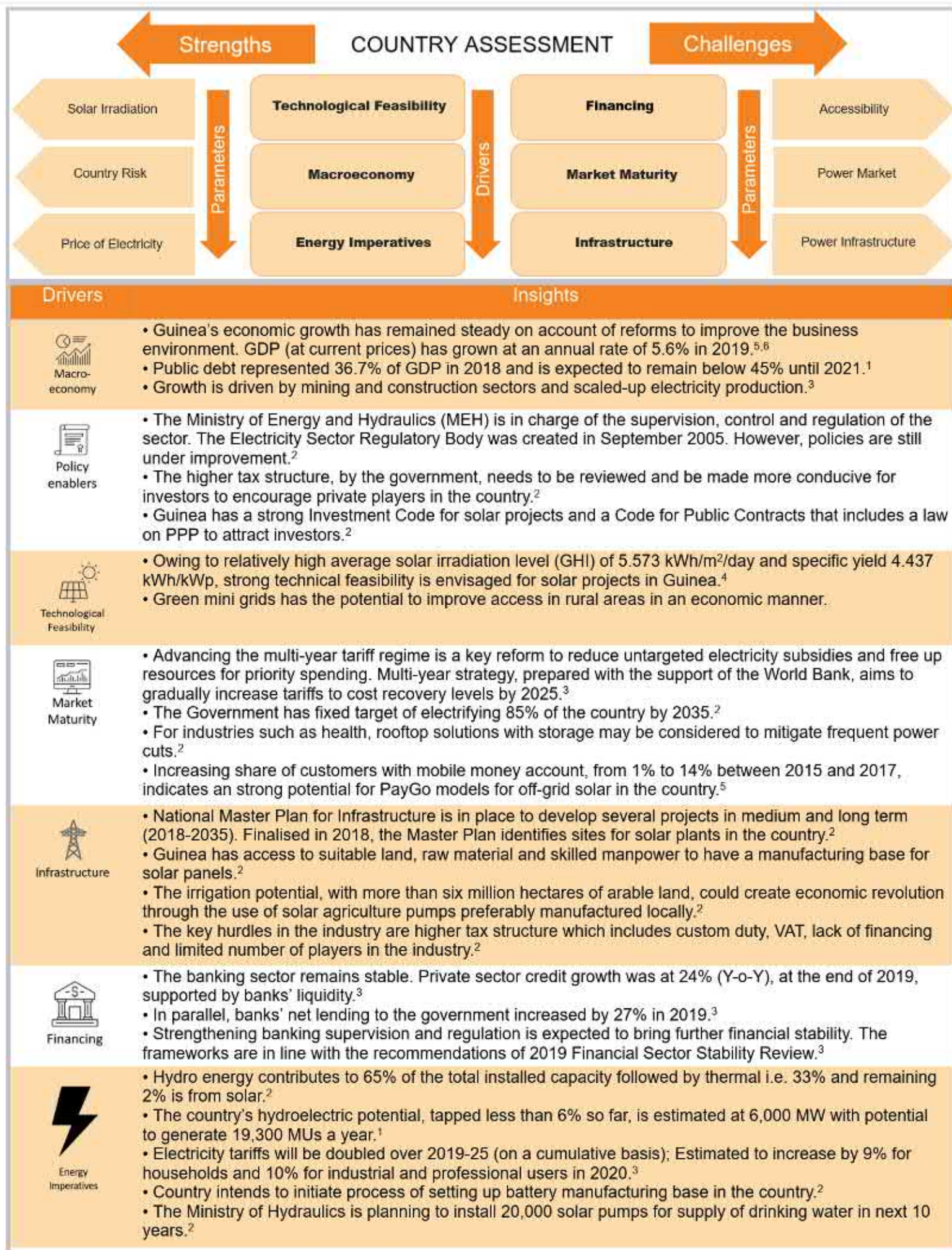
Potential

Performance against 7 Drivers



Sub-regional standing







Guinea-Bissau

Africa

Electricity Consumption
in MU (2017)

⚡ 38.6

Installed Solar Capacity in
MW (2019)



1.2

Share of Population with Access
to Electricity (2018)



0% 29% 100%

Installed Off-Grid Solar Capacity
in MW (2019)



1.2

World Bank's Ease of Doing
Business Score (2020)



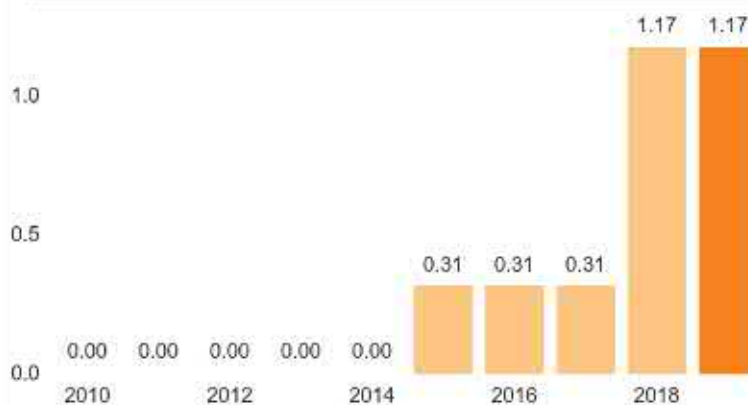
43.20

Solar installed capacity Growth rate
(CAGR) for 2015-19

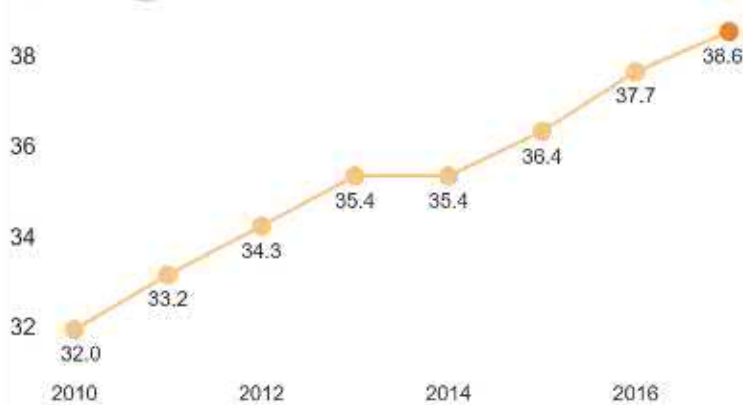
📈 39%

Power Trends

Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

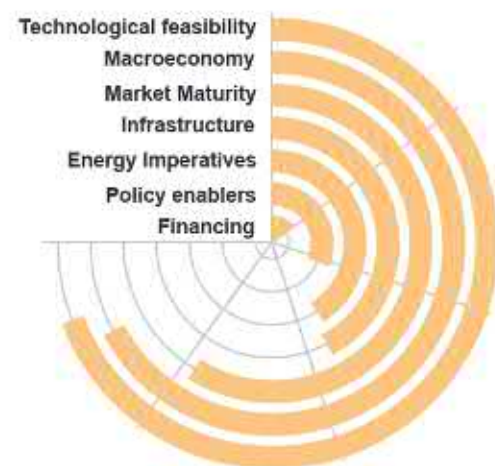


Ease of Doing Solar Classification

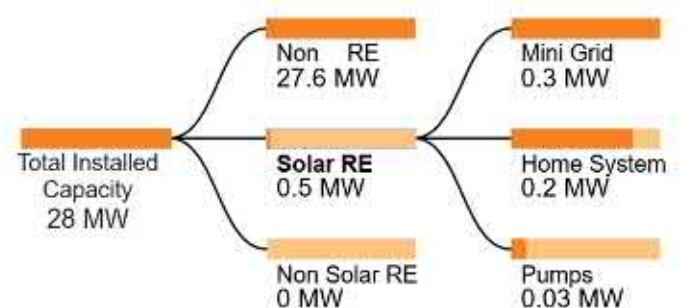


Potential

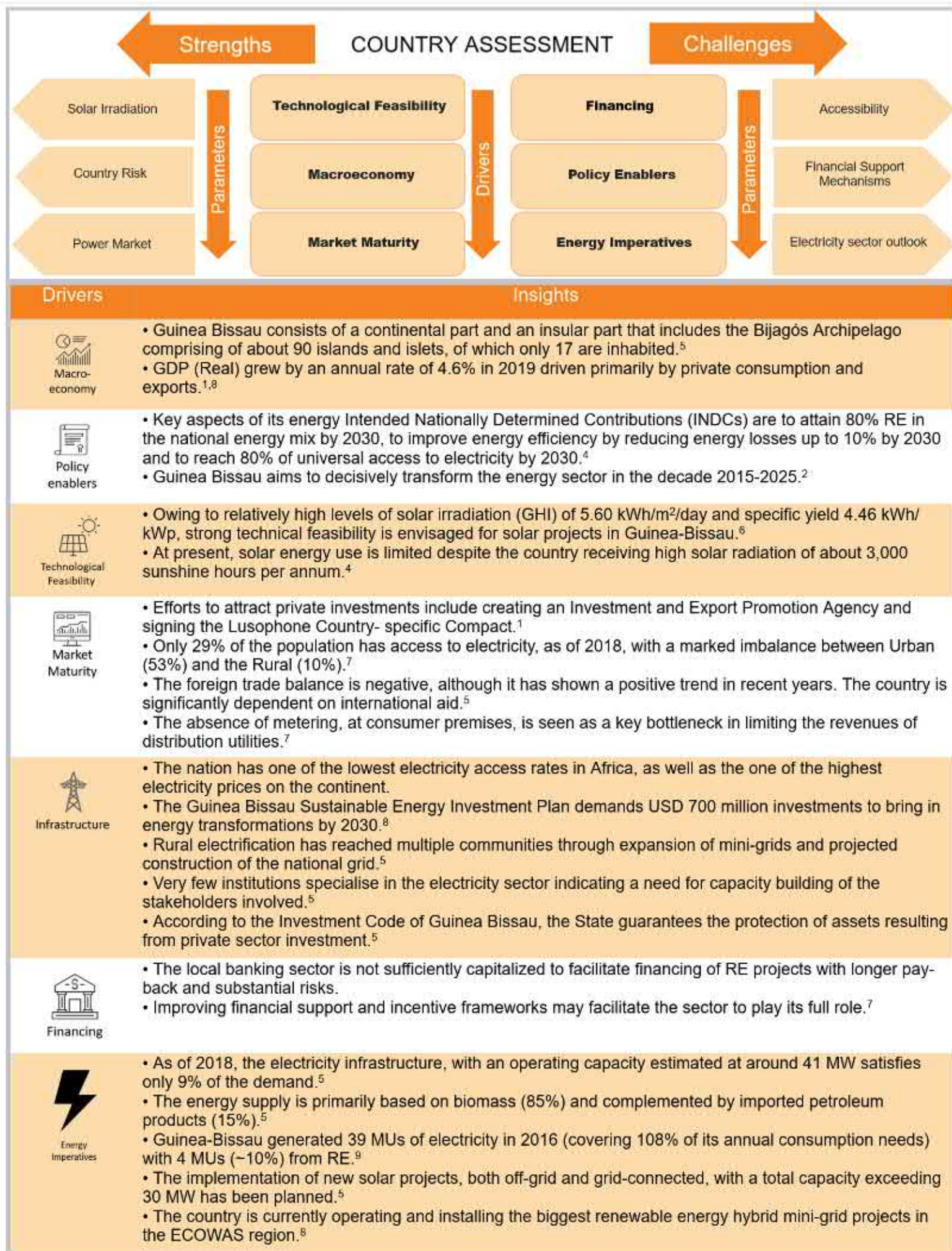
Performance against 7 Drivers

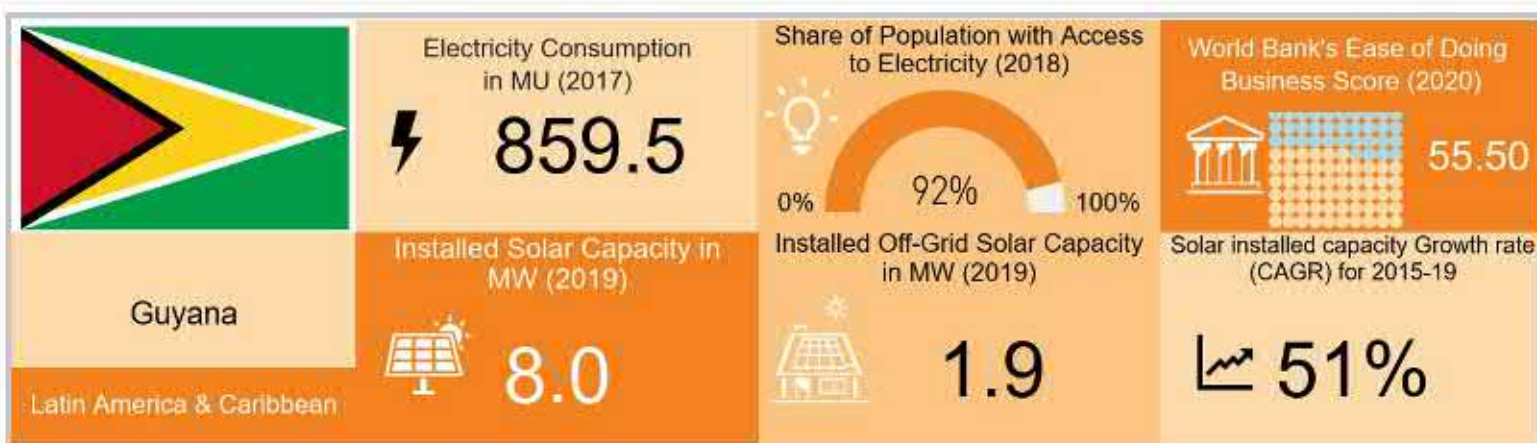


Installed Generation Capacity by Source



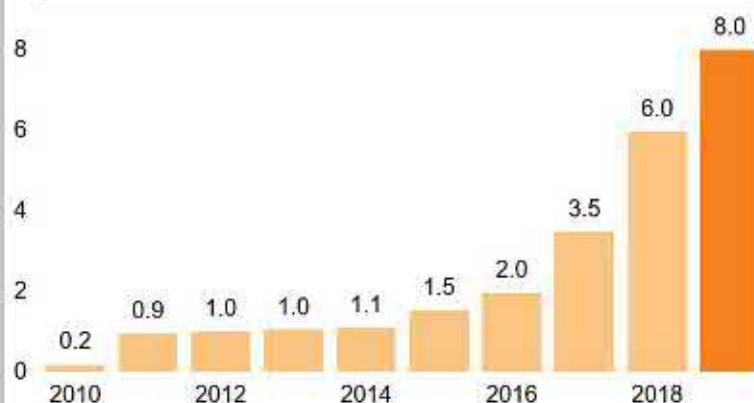
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



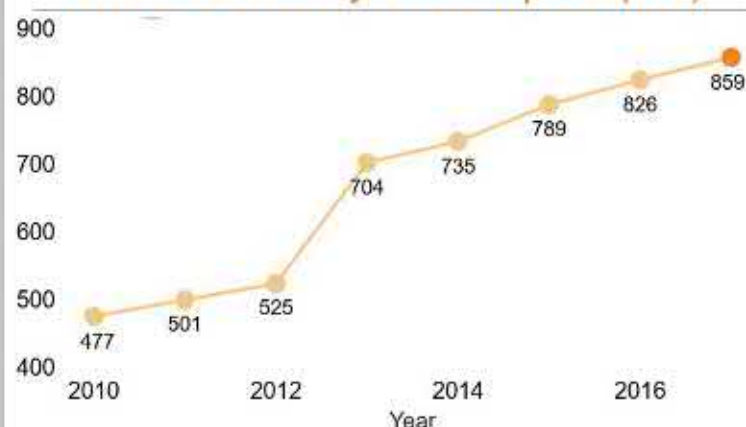


Power Trends

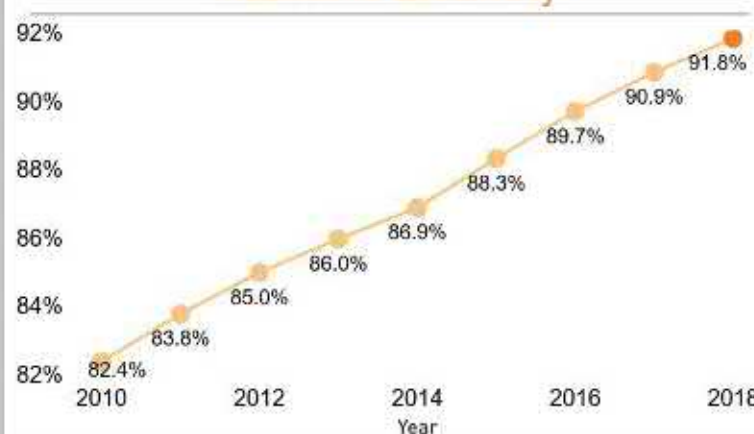
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

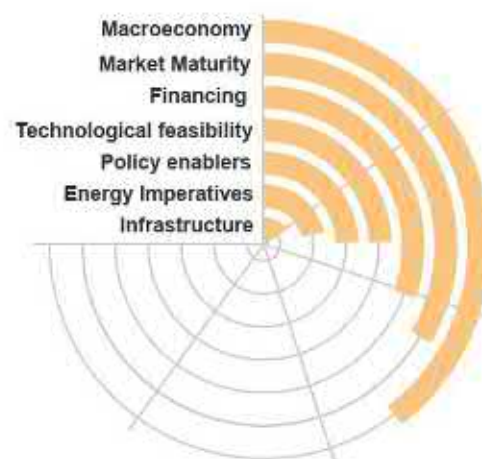


Ease of Doing Solar Classification



Potential

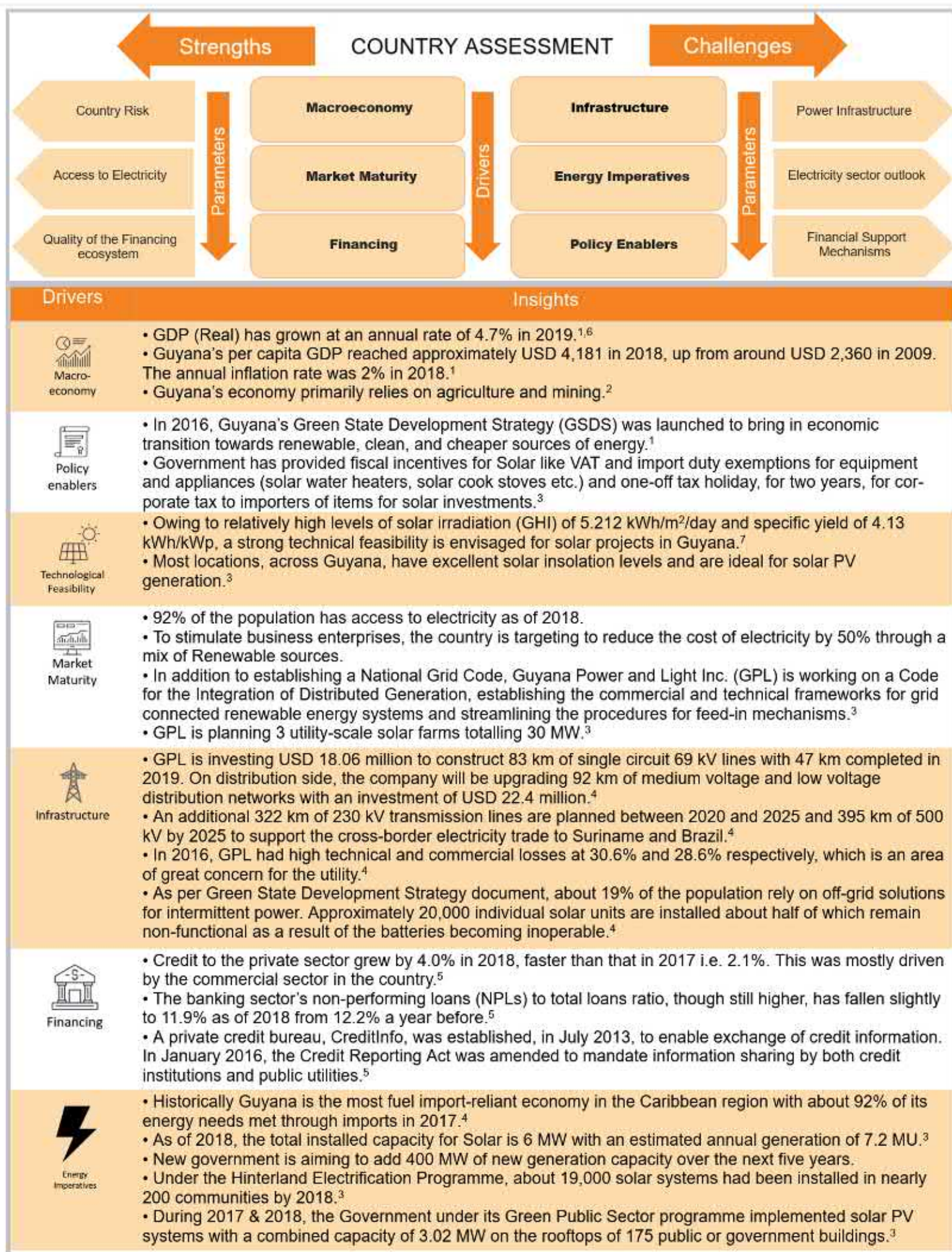
Performance against 7 Drivers



Sub-regional standing



● Neutral ● Beginner ● Progressive ● Influencer





Haiti

Latin America & Caribbean

Electricity Consumption
in MU (2017)

⚡ 422.0

Installed Solar Capacity in
MW (2019)



2.6

Share of Population with Access
to Electricity (2018)



0% 45% 100%

Installed Off-Grid Solar Capacity
in MW (2019)



1.4

World Bank's Ease of Doing
Business Score (2020)



40.70

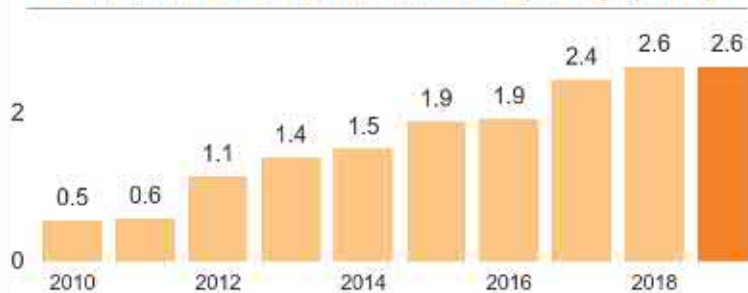
Solar installed capacity Growth rate
(CAGR) for 2015-19



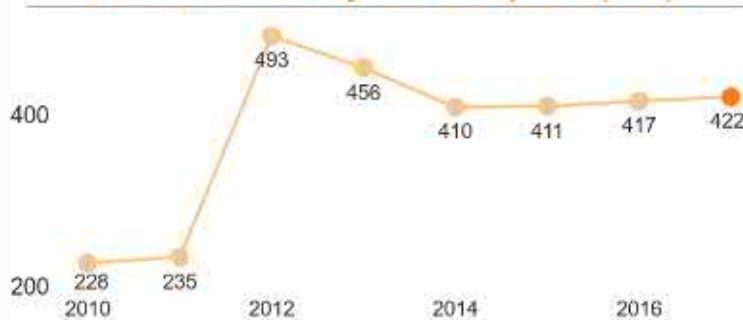
9%

Power Trends

Cumulative Solar installed Capacity (MW)

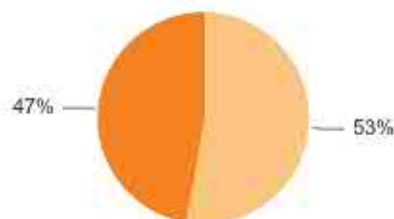


Overall Electricity Consumption (MU)

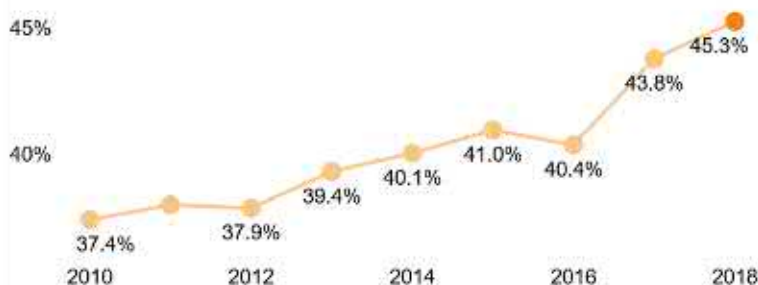


Consumer Mix

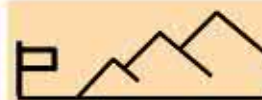
● Commercial & Industrial ● Residential ● Agricultural ● Others



Access to Electricity



Ease of Doing Solar Classification

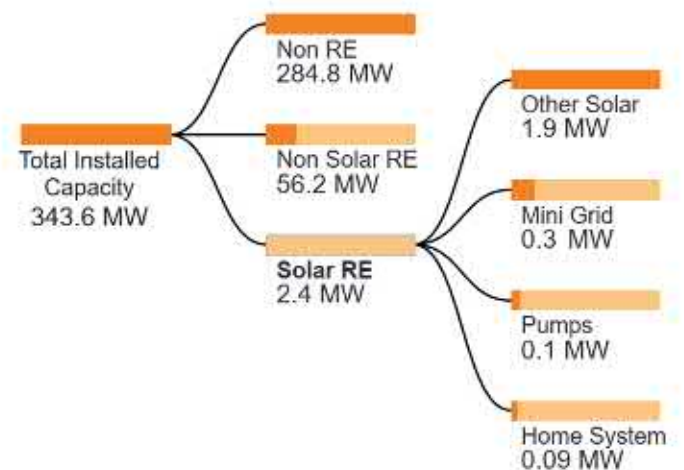


Potential

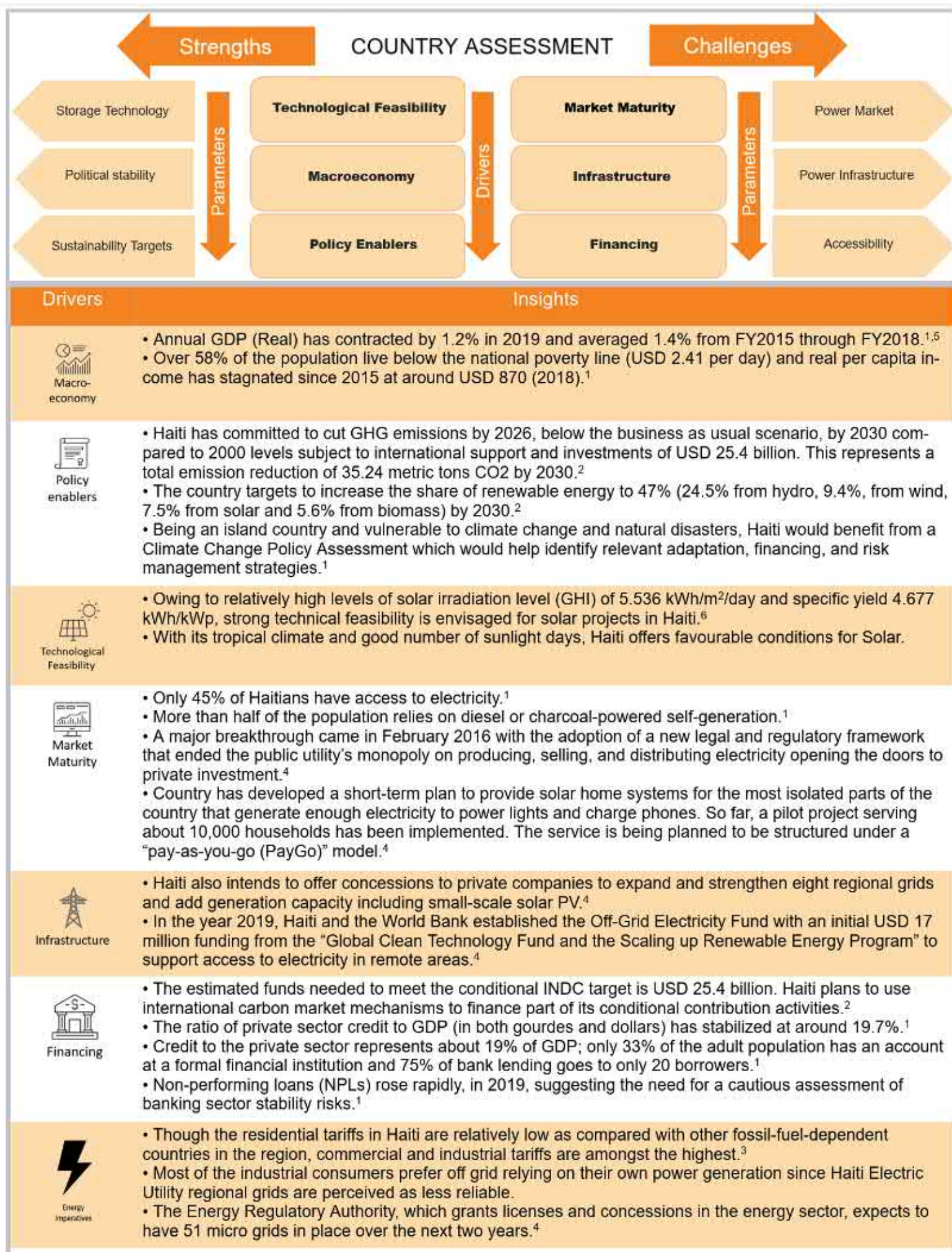
Performance against 7 Drivers

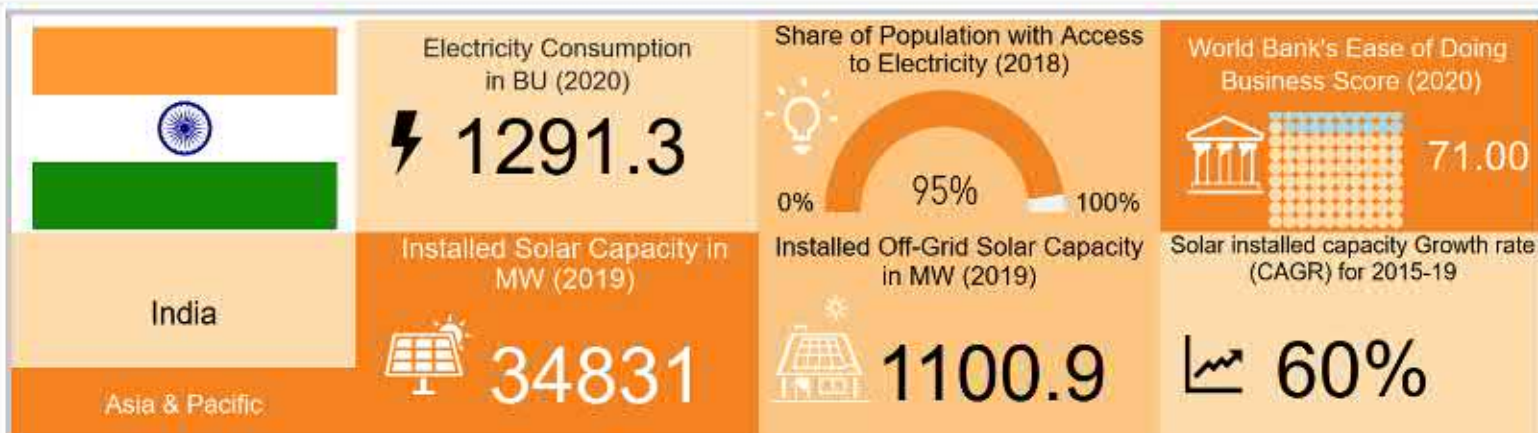


Installed Generation Capacity by Source



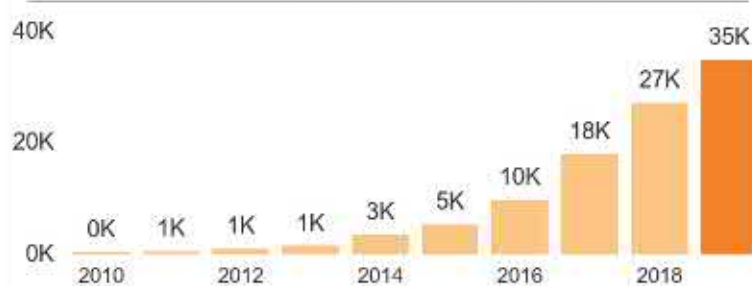
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



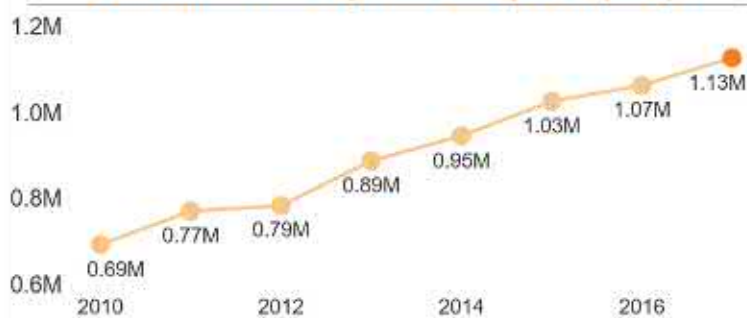


Power Trends

Cumulative Solar installed Capacity (MW)

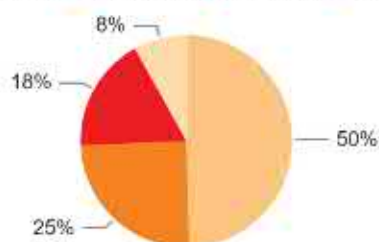


Overall Electricity Consumption (MU)

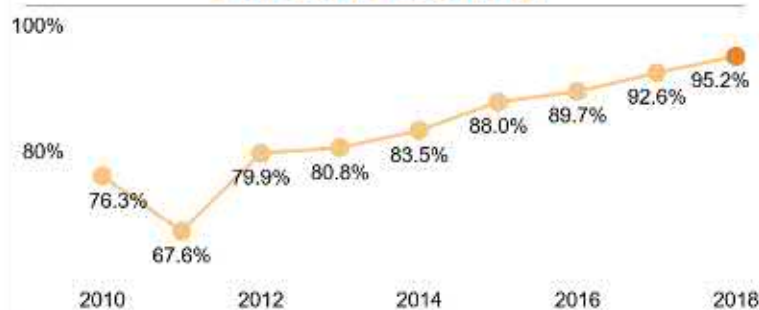


Consumer Mix

Commercial & Industrial Residential Agricultural Others



Access to Electricity



Ease of Doing Solar Classification

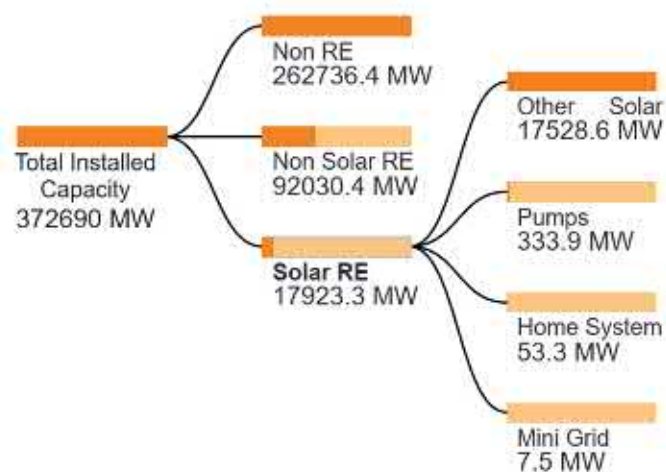


Achiever

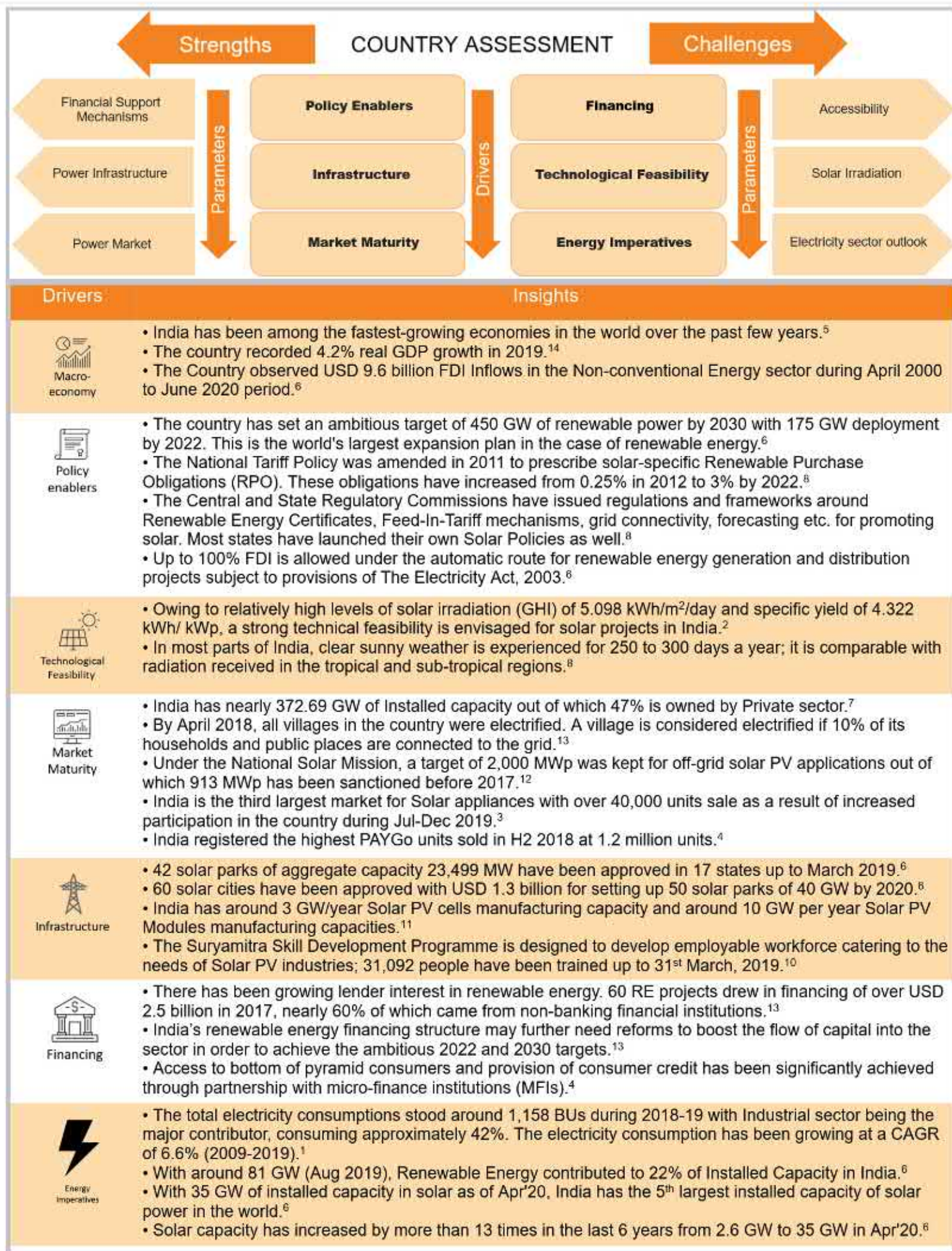
Performance against 7 Drivers

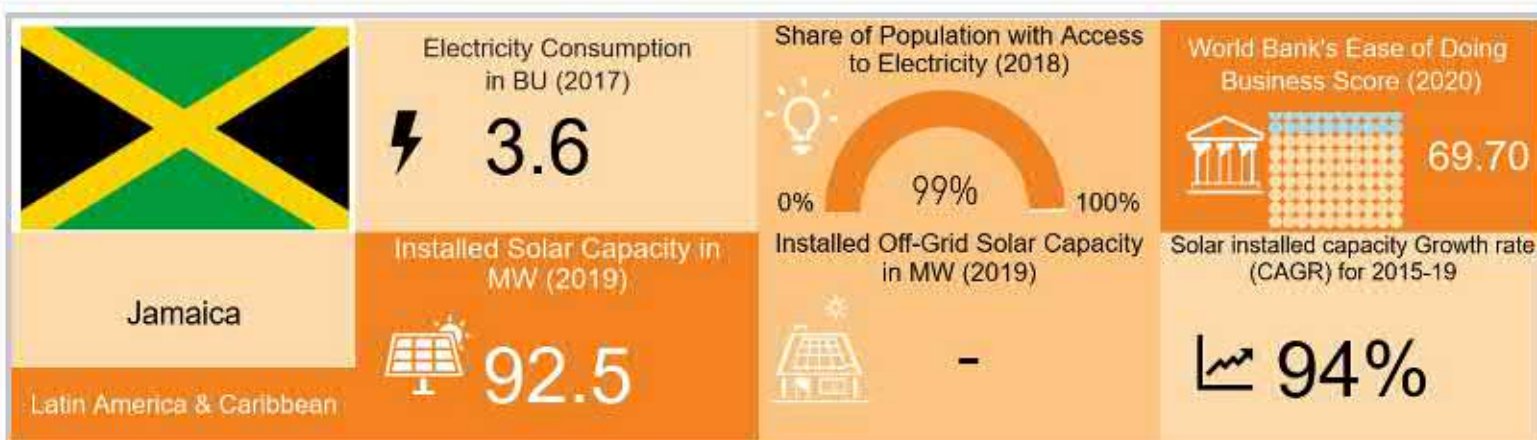


Installed Generation Capacity by Source



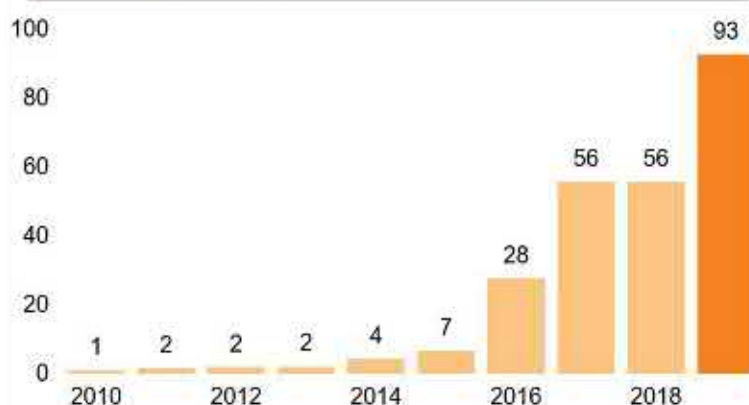
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
 Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
 Other Solar includes Utility Scale Solar, Rooftop etc.;
 Year: 2017.



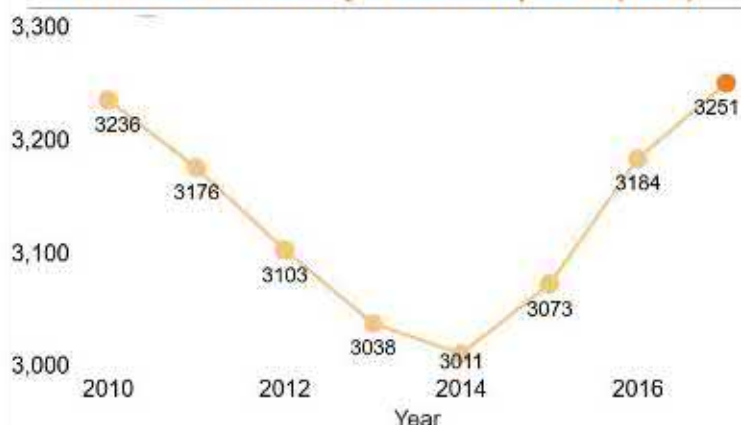


Power Trends

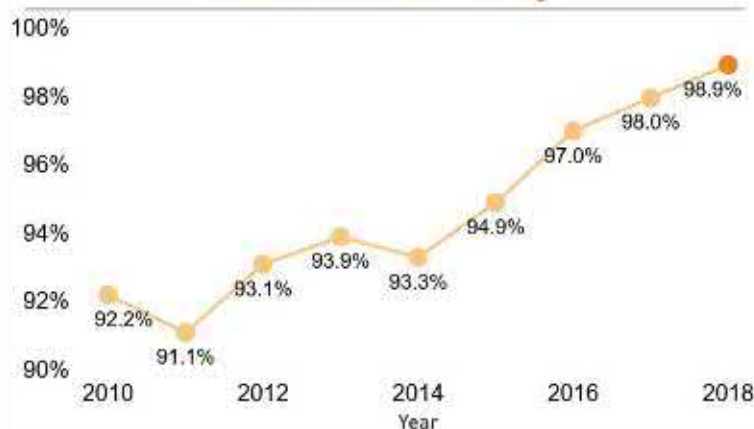
Cumulative Solar installed Capacity (MW)



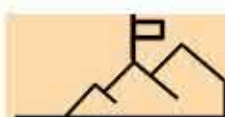
Overall Electricity Consumption (MU)



Access to Electricity



Ease of Doing Solar Classification



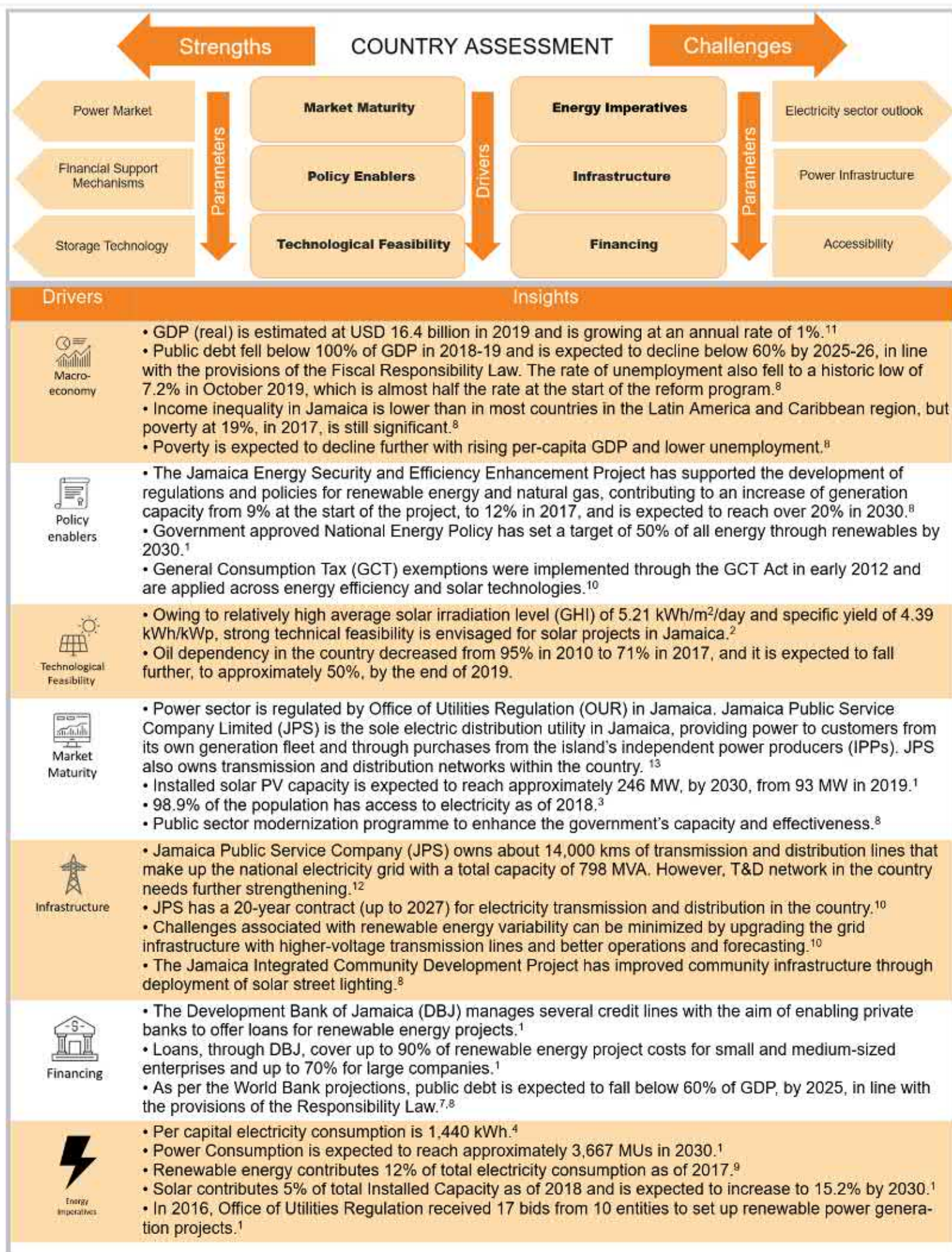
Influencer

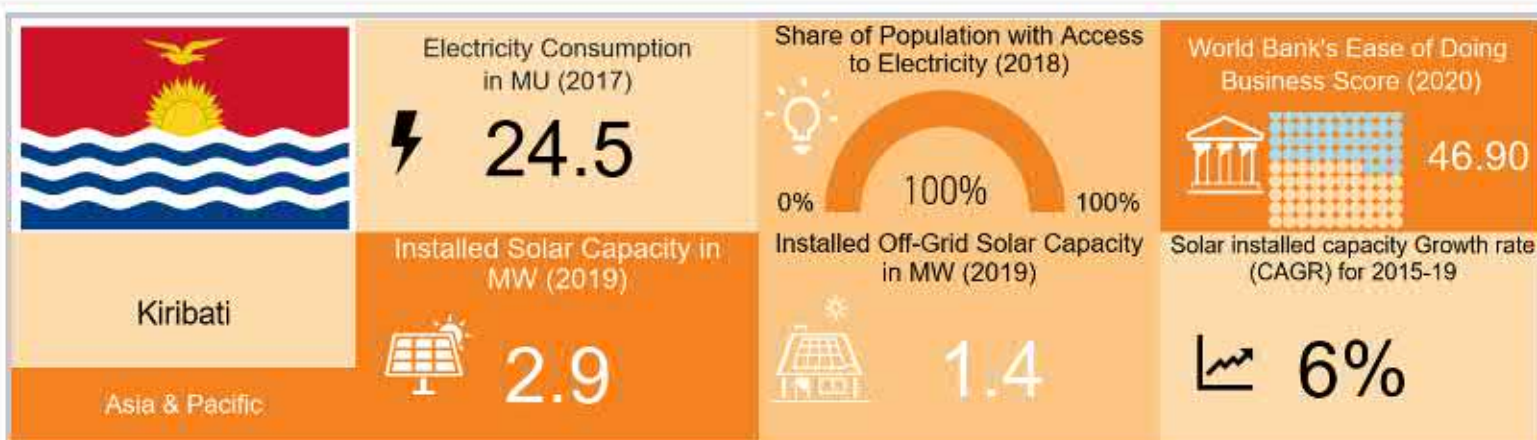
Performance against 7 Drivers



Sub-regional standing

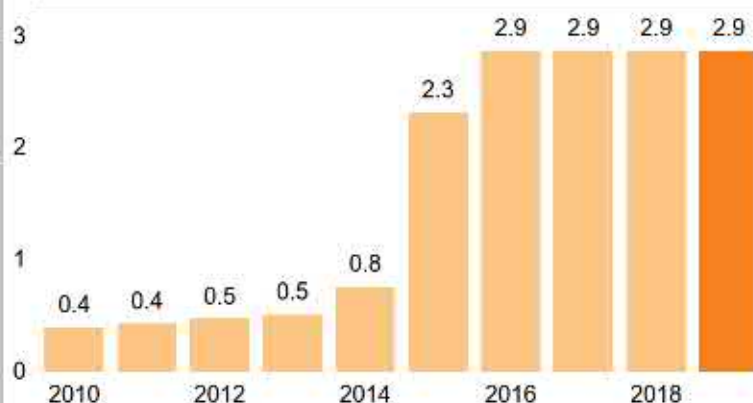




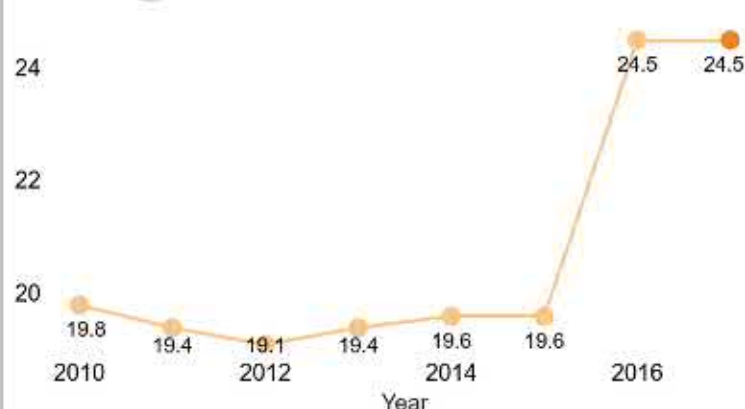


Power Trends

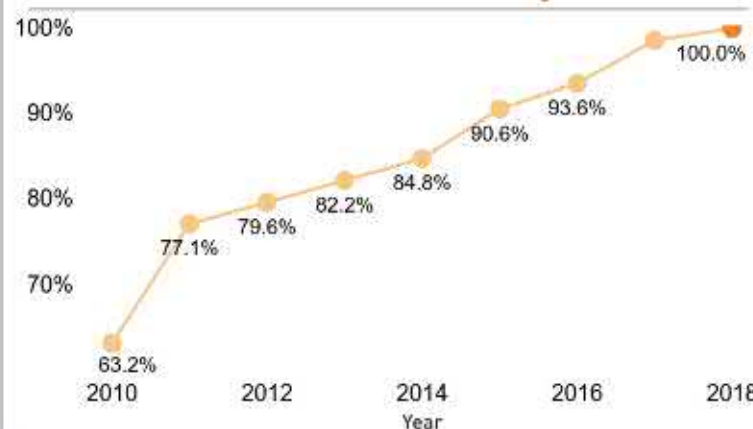
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



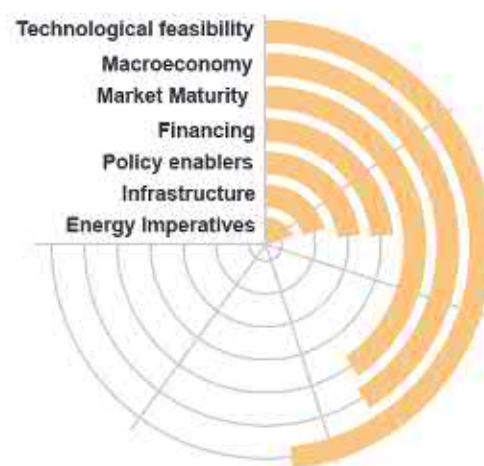
Access to Electricity



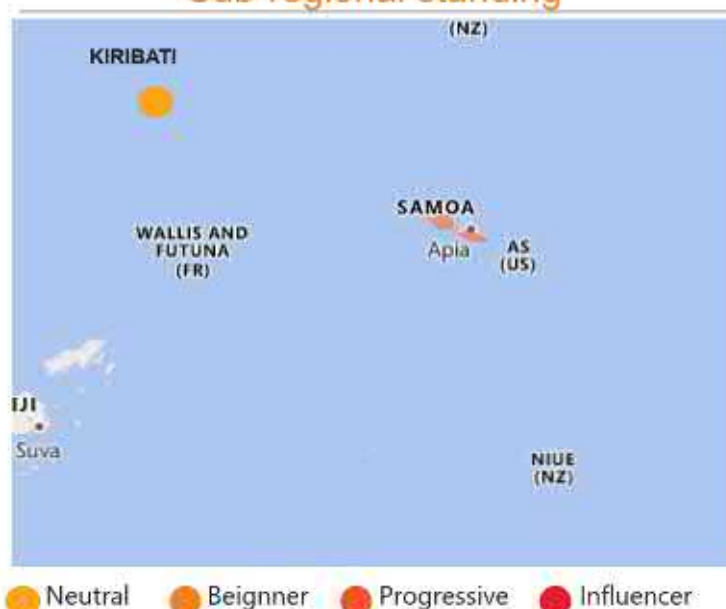
Ease of Doing Solar Classification

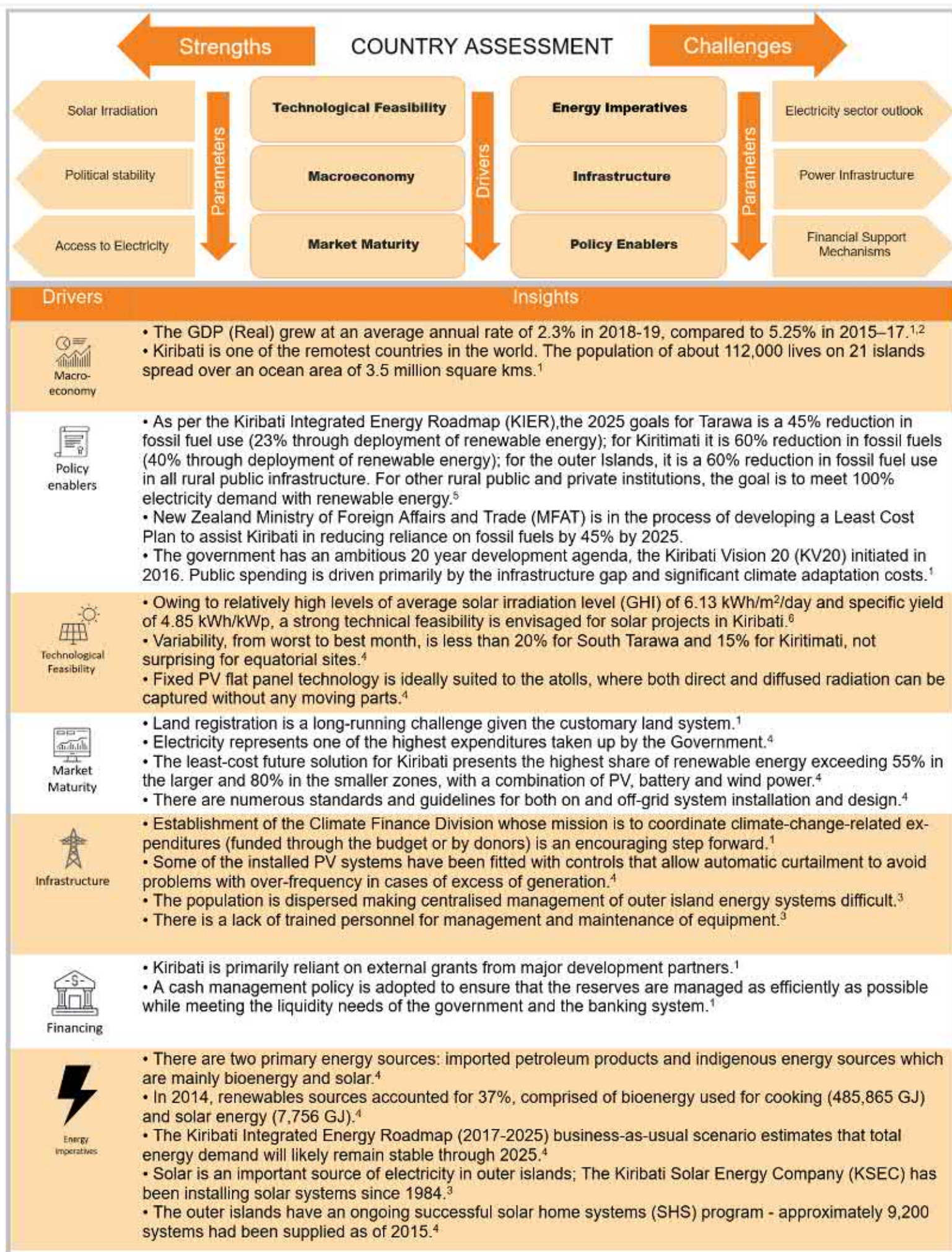


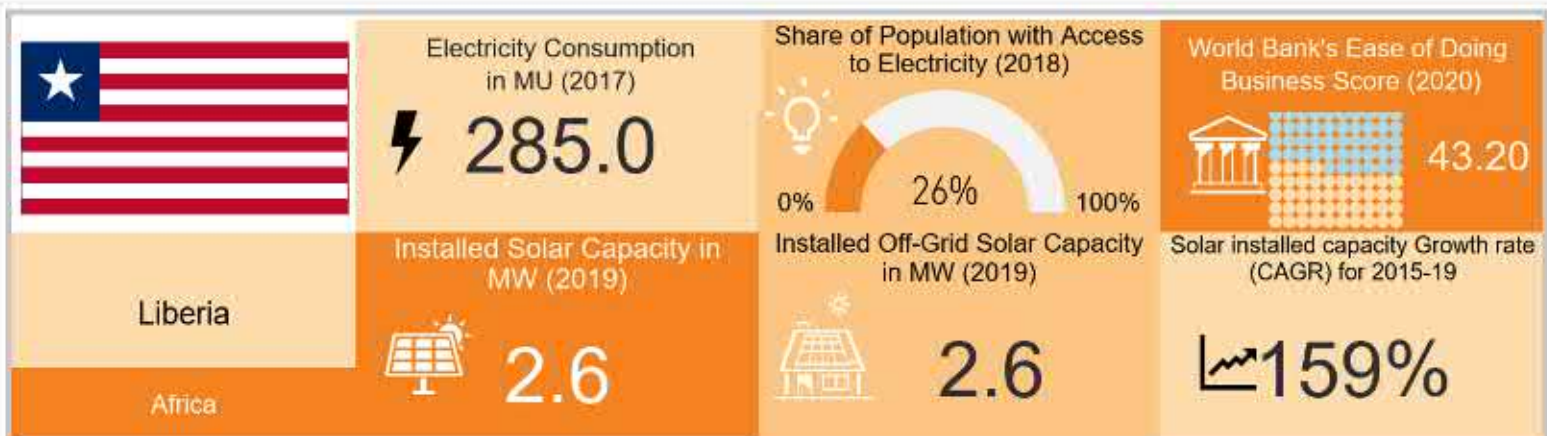
Performance against 7 Drivers



Sub-regional standing

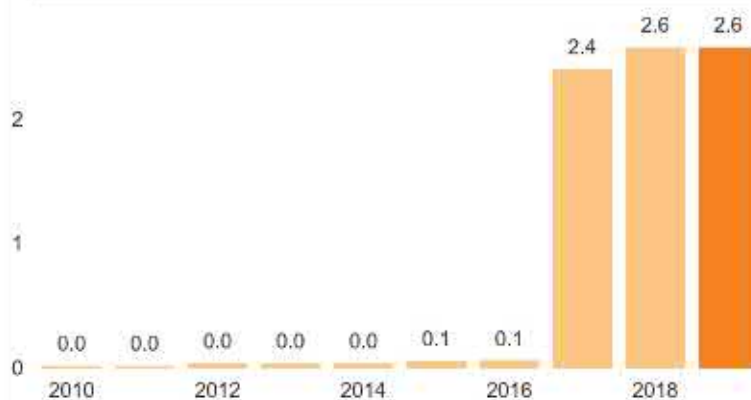




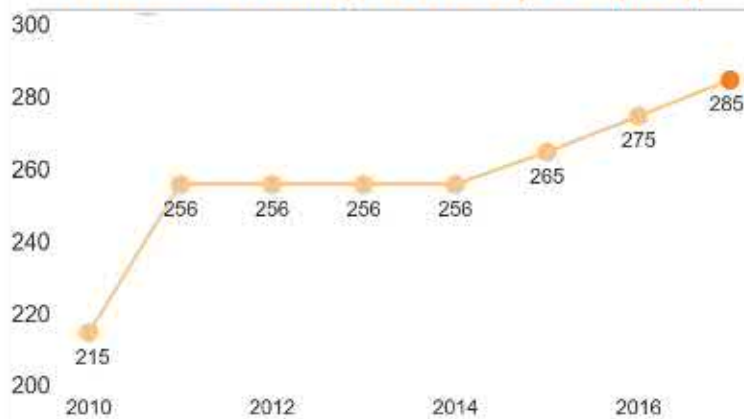


Power Trends

Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity



Ease of Doing Solar Classification

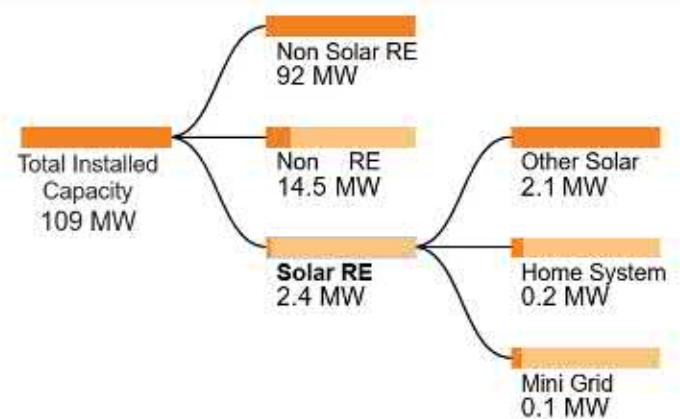


Potential

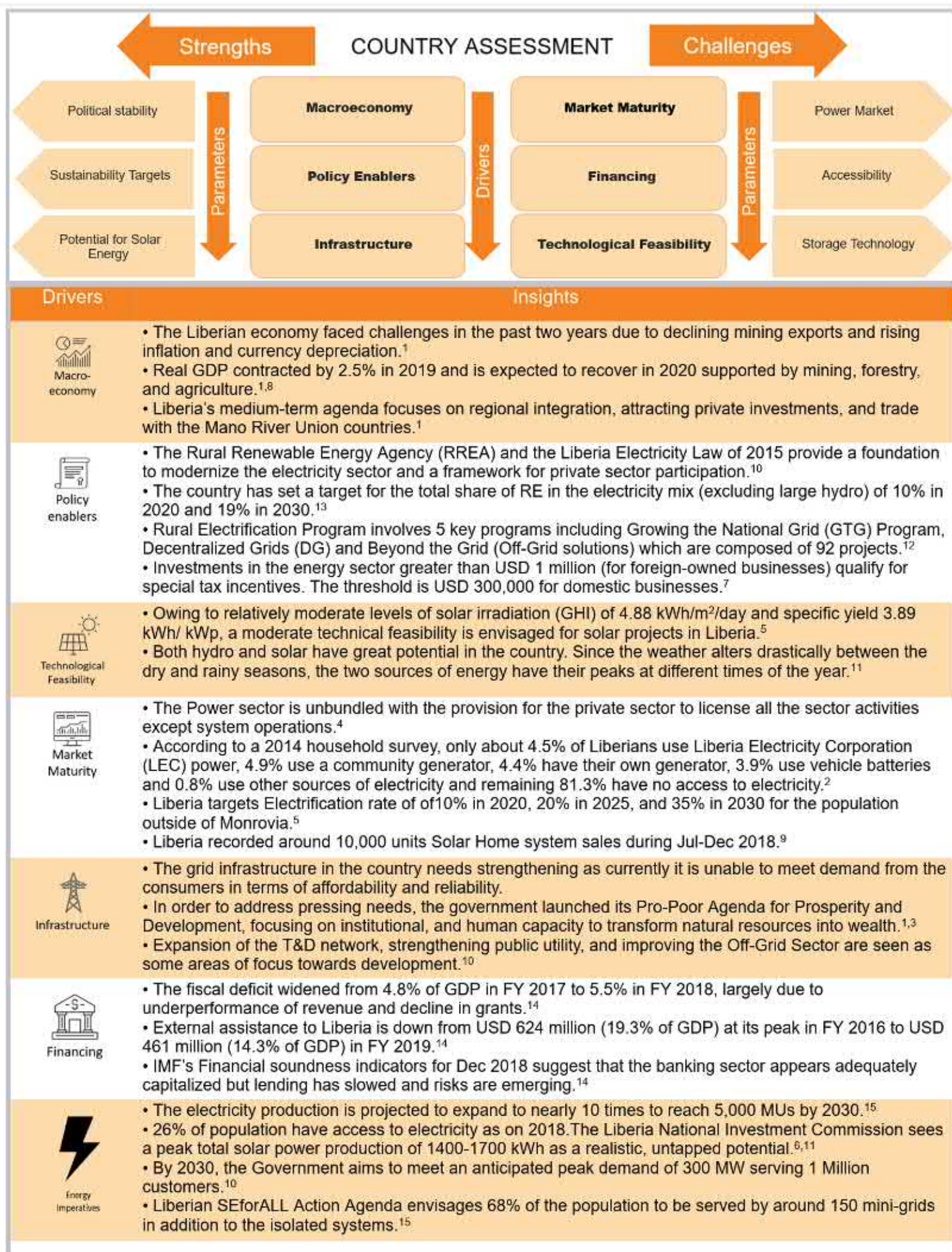
Performance against 7 Drivers

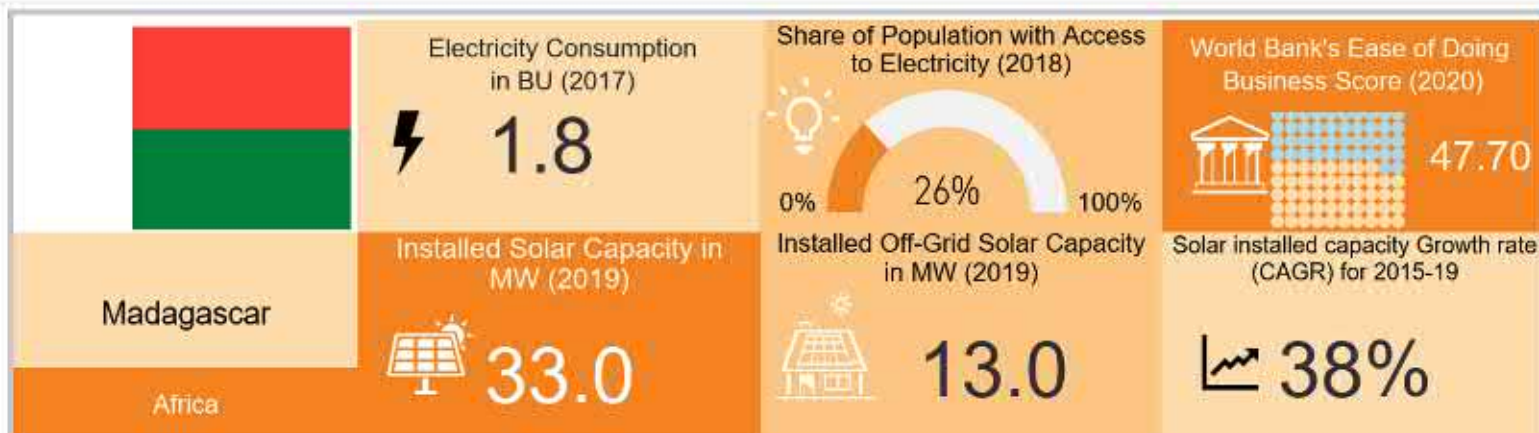


Installed Generation Capacity by Source



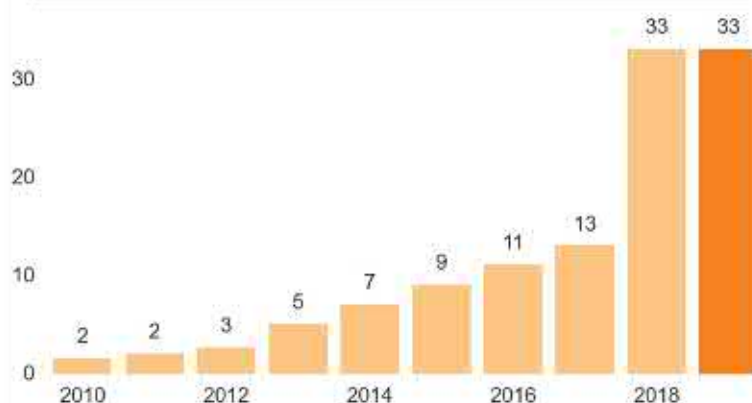
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



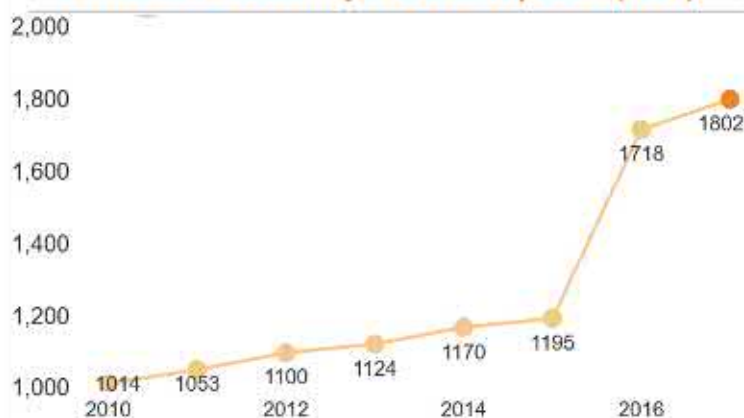


Power Trends

Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity



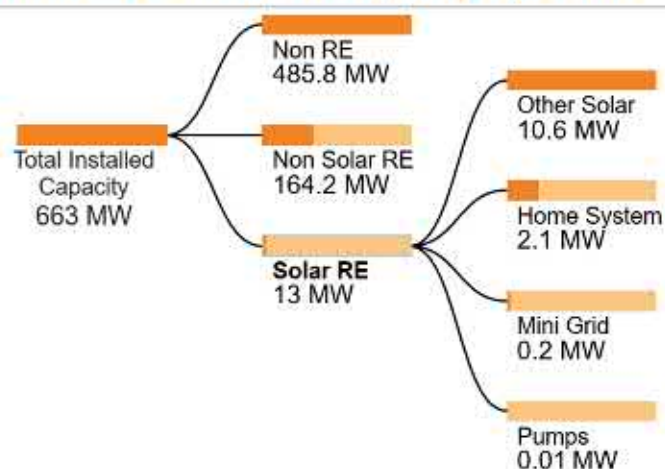
Ease of Doing Solar Classification



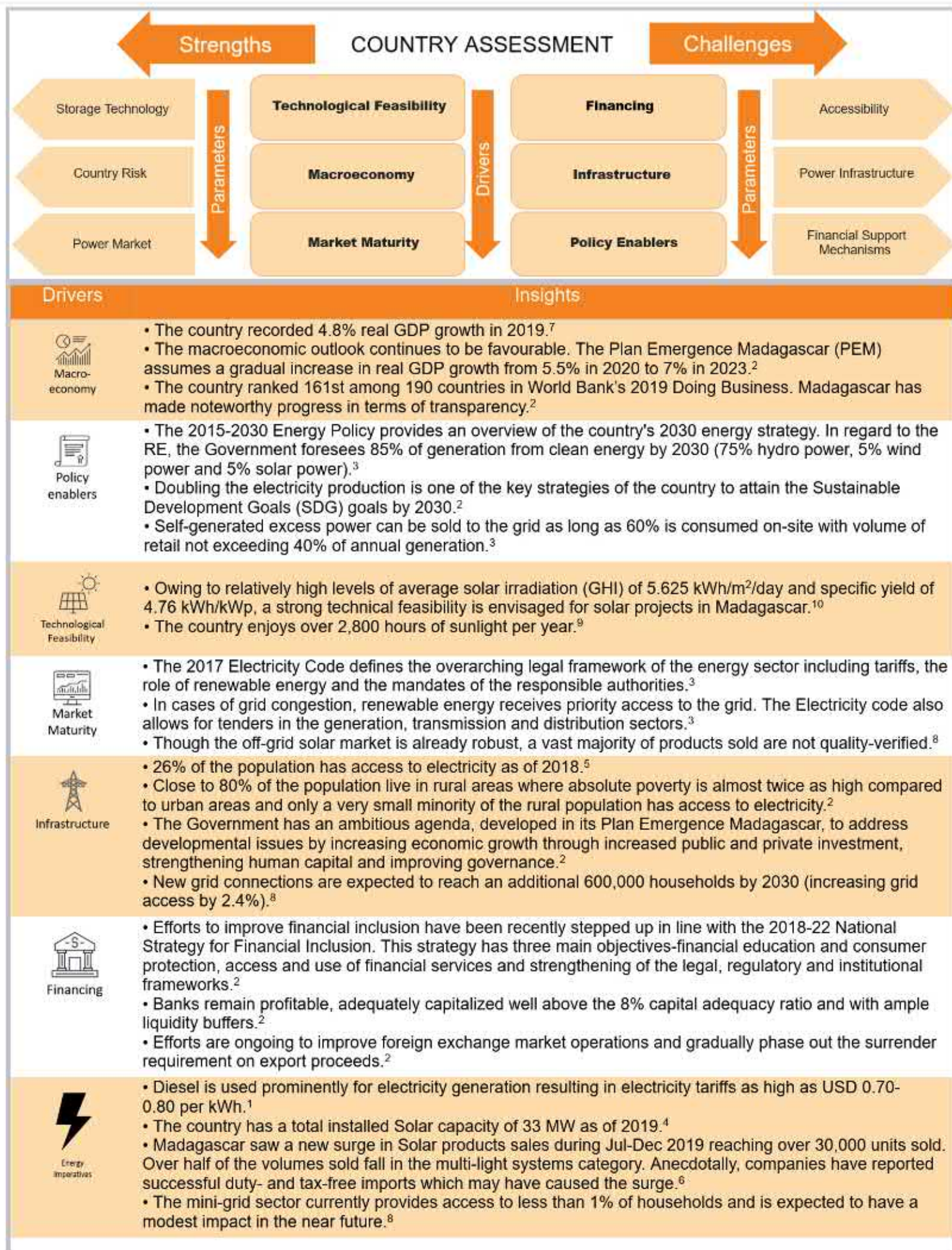
Performance against 7 Drivers



Installed Generation Capacity by Source



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Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.





Malawi

Africa

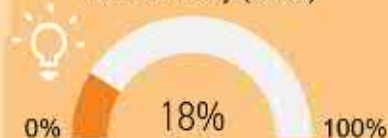
Electricity Consumption
in BU (2017)

⚡ 1.4

Installed Solar Capacity in
MW (2019)

☀️ 22.7

Share of Population with Access
to Electricity (2018)



Installed Off-Grid Solar Capacity
in MW (2019)

🏠 18.4

World Bank's Ease of Doing
Business Score (2020)

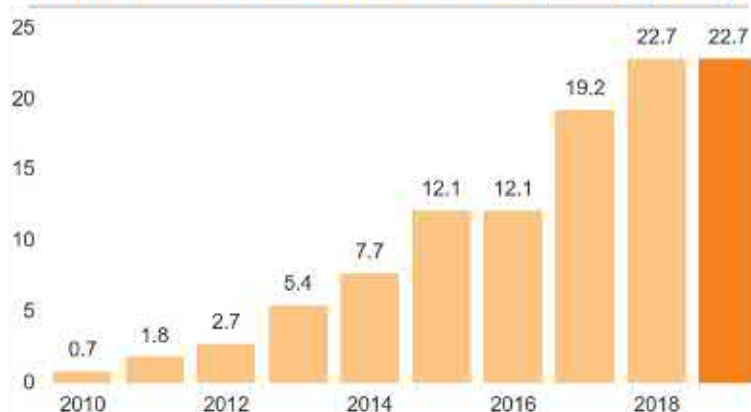
🏛️ 60.90

Solar installed capacity Growth rate
(CAGR) for 2015-19

📈 17%

Power Trends

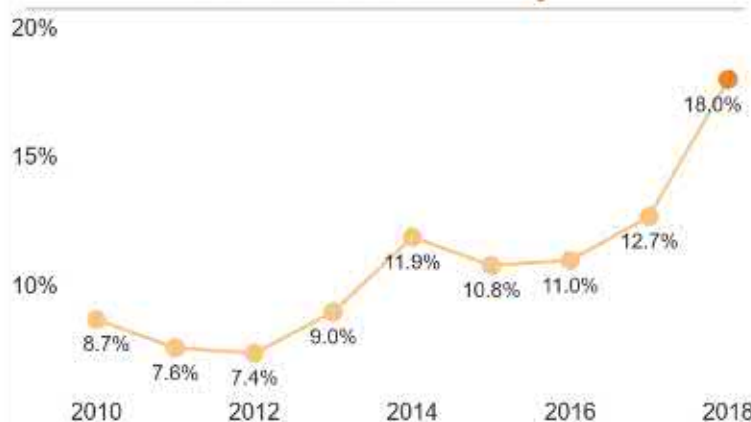
Cumulative Solar installed Capacity (MW)



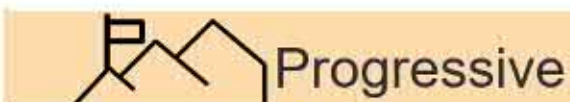
Overall Electricity Consumption (MU)



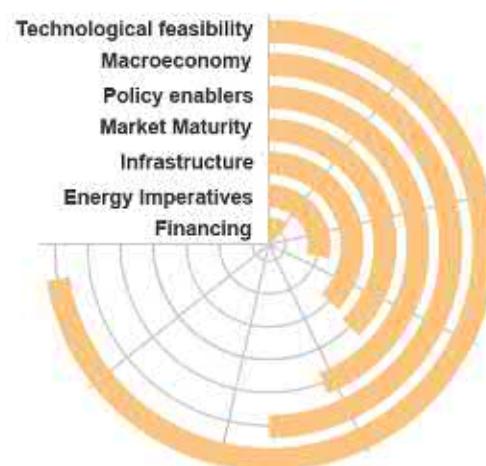
Access to Electricity



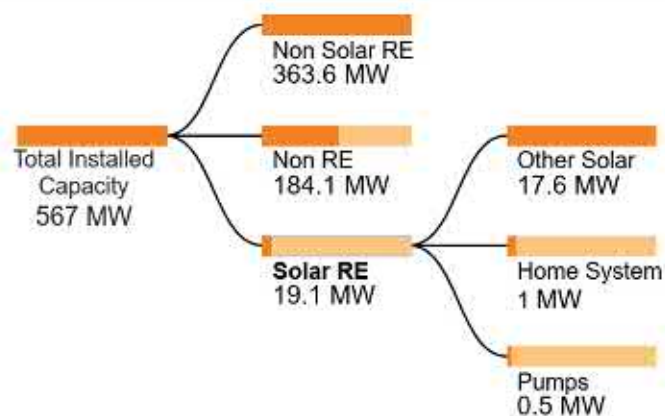
Ease of Doing Solar Classification



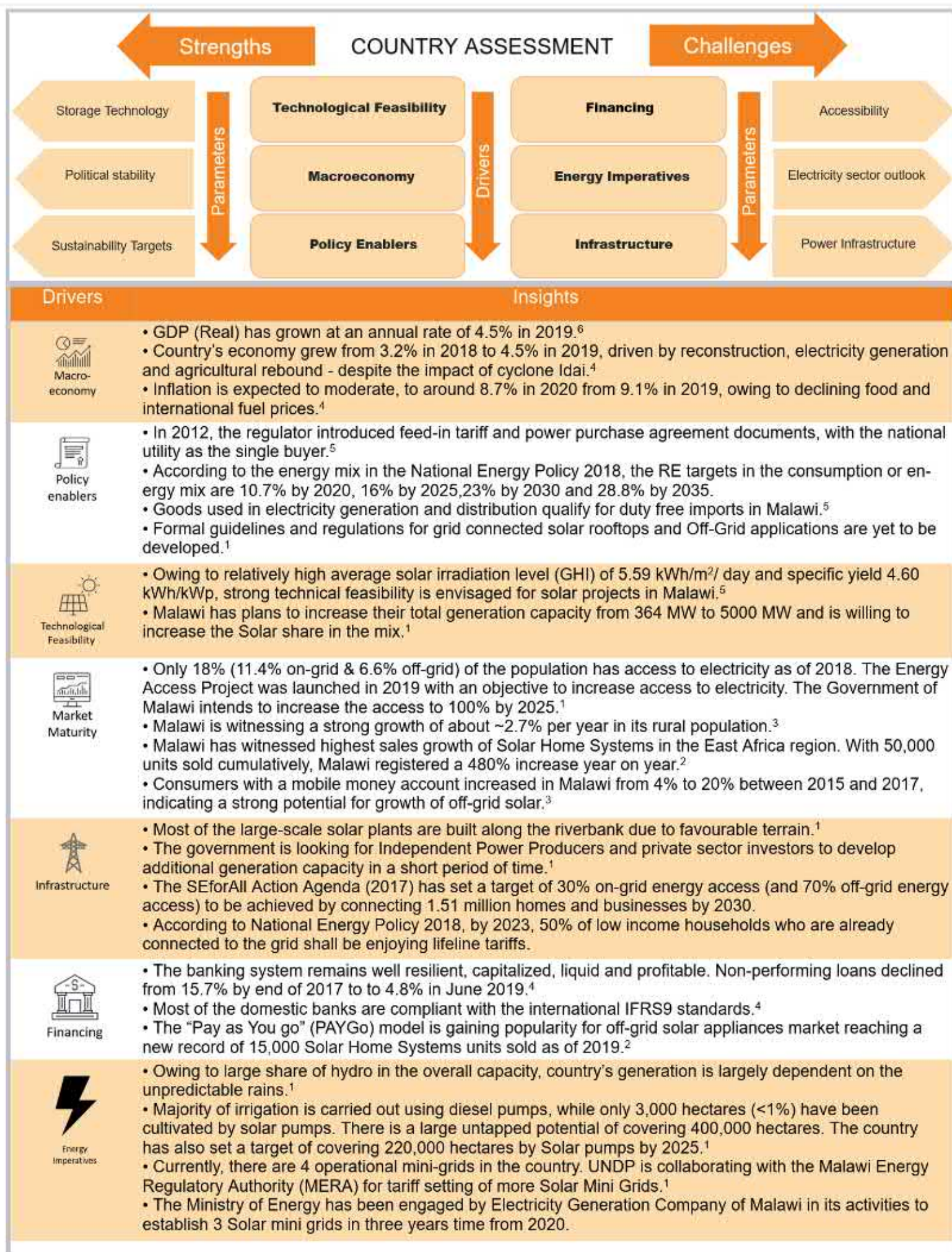
Performance against 7 Drivers

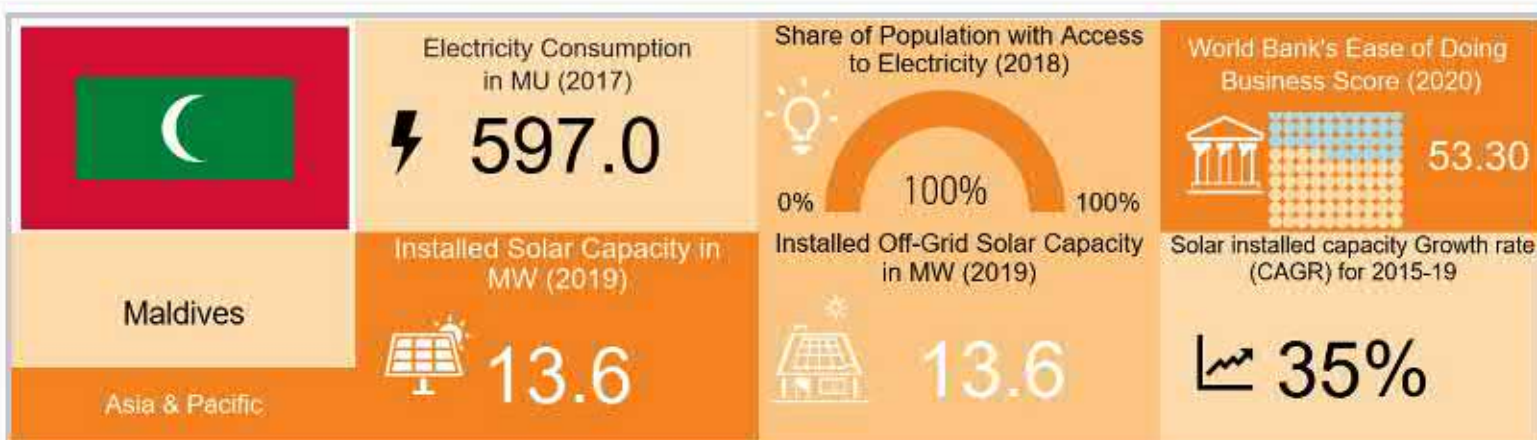


Installed Generation Capacity by Source



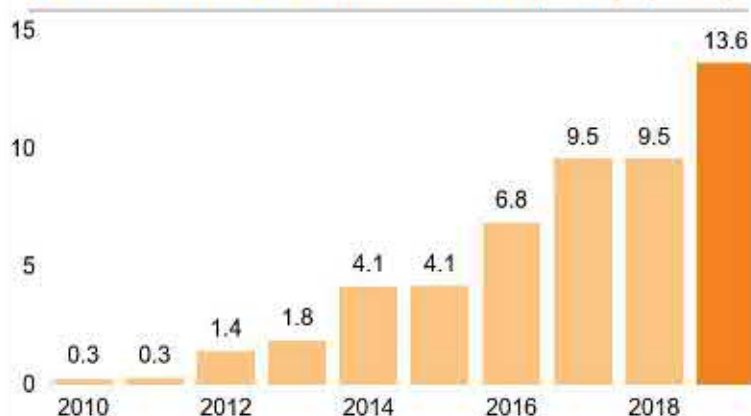
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.





Power Trends

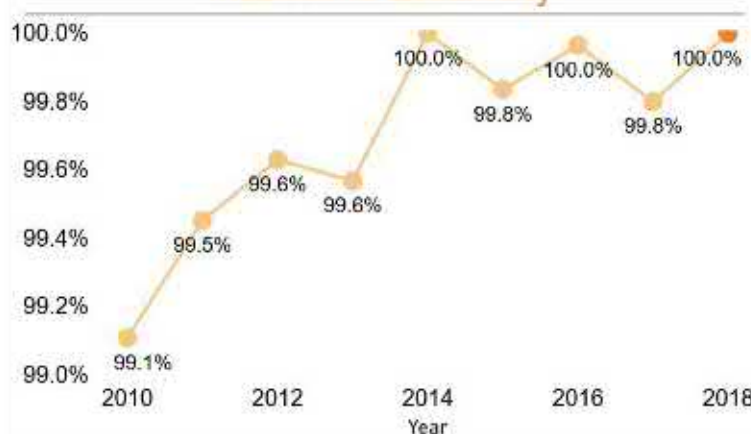
Cumulative Solar installed Capacity (MW)



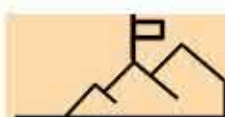
Overall Electricity Consumption (MU)



Access to Electricity



Ease of Doing Solar Classification



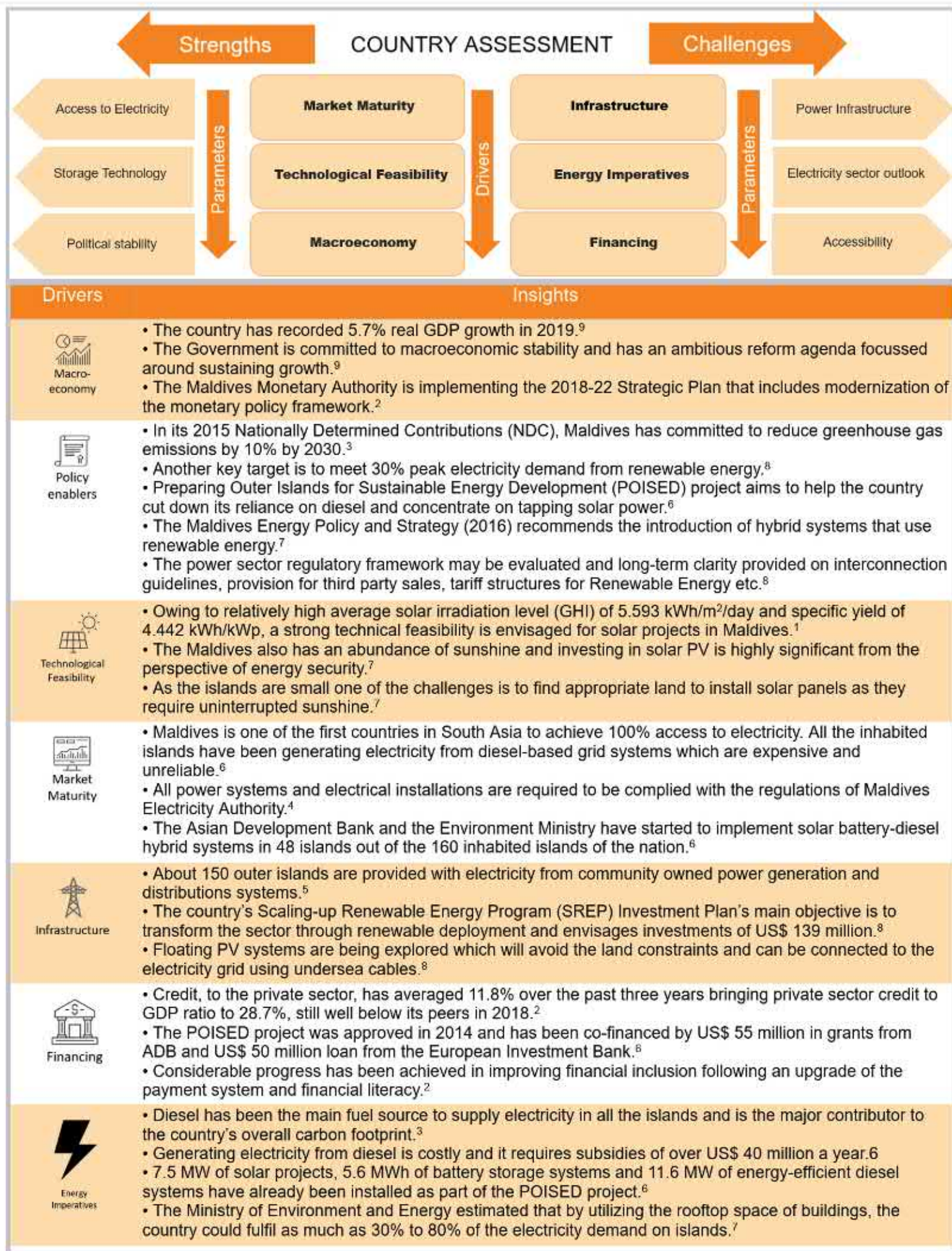
Influencer

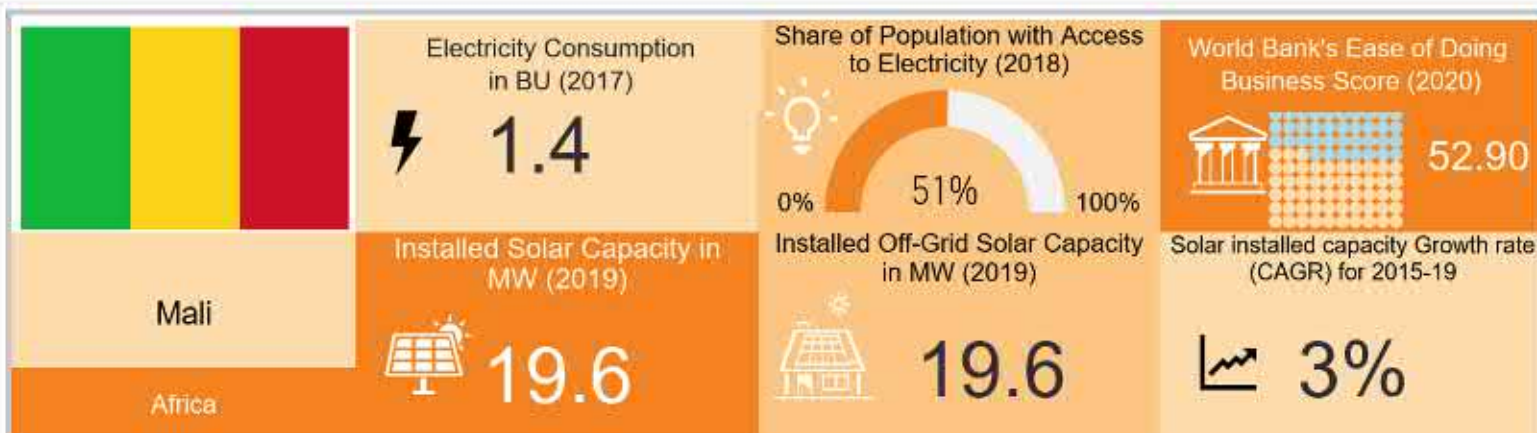
Performance against 7 Drivers



Sub-regional standing

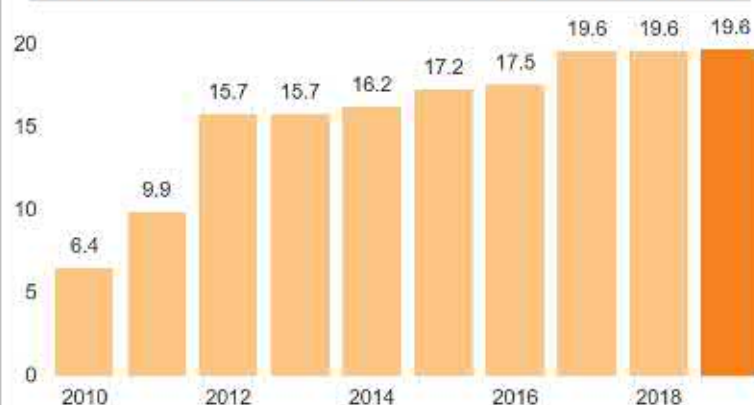






Power Trends

Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

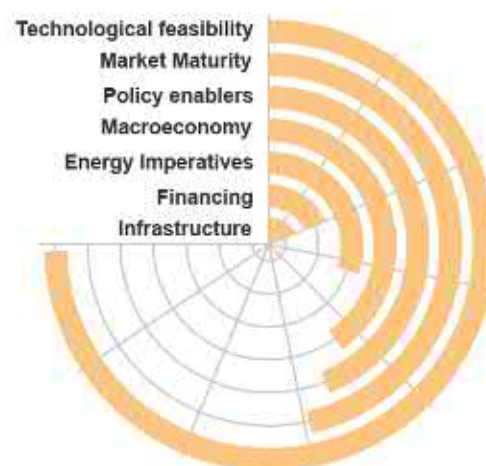


Ease of Doing Solar Classification

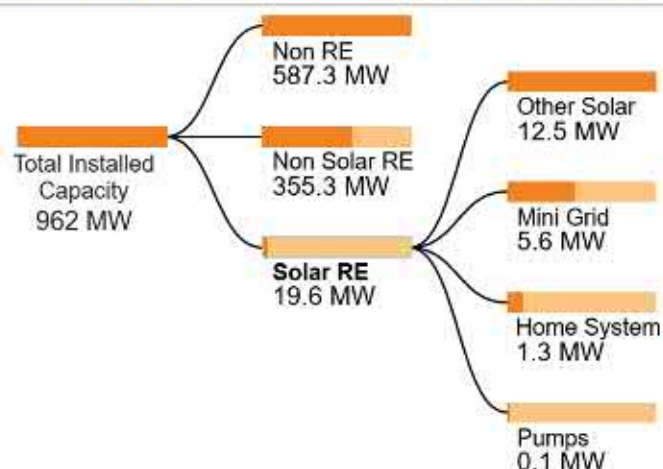


Influencer

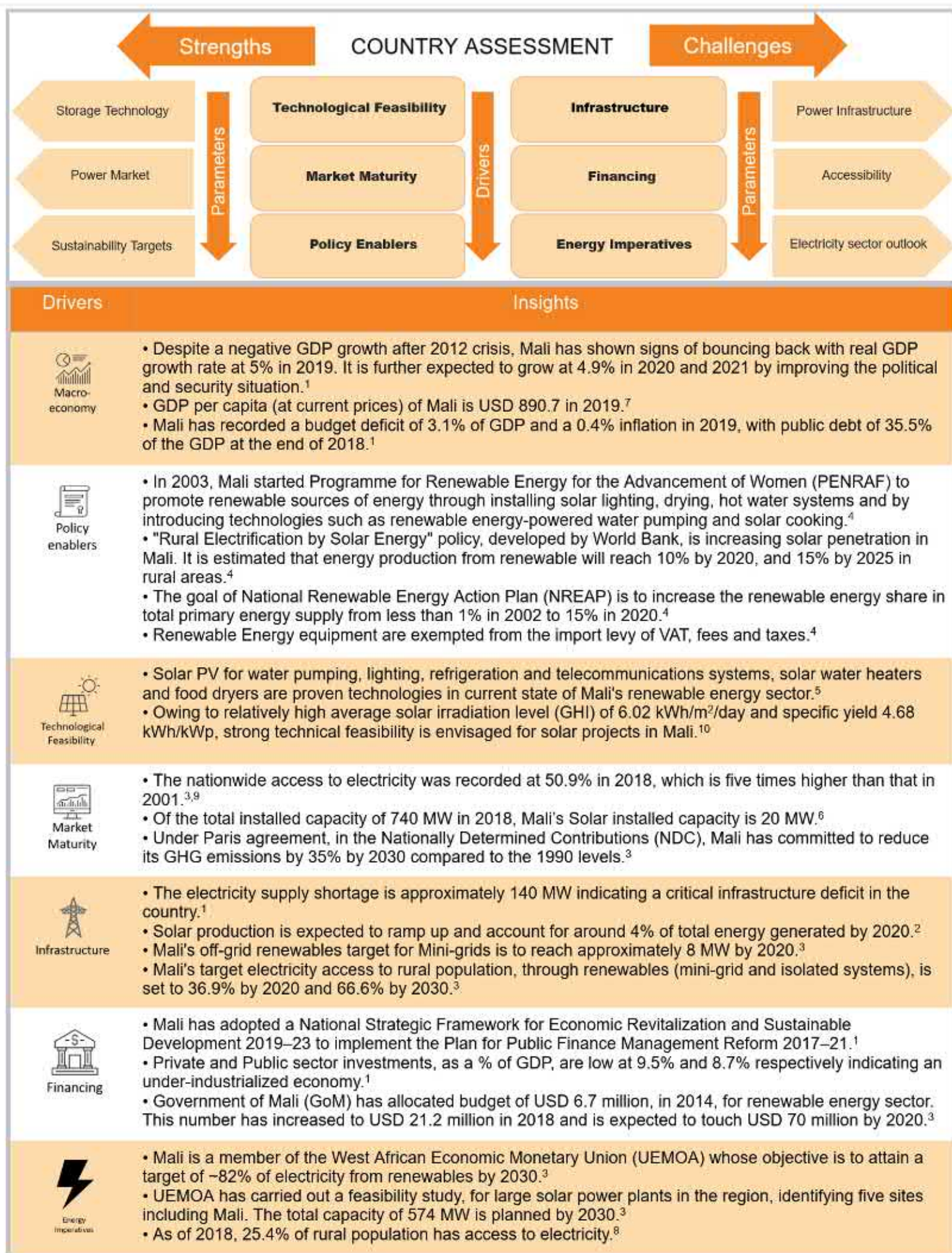
Performance against 7 Drivers

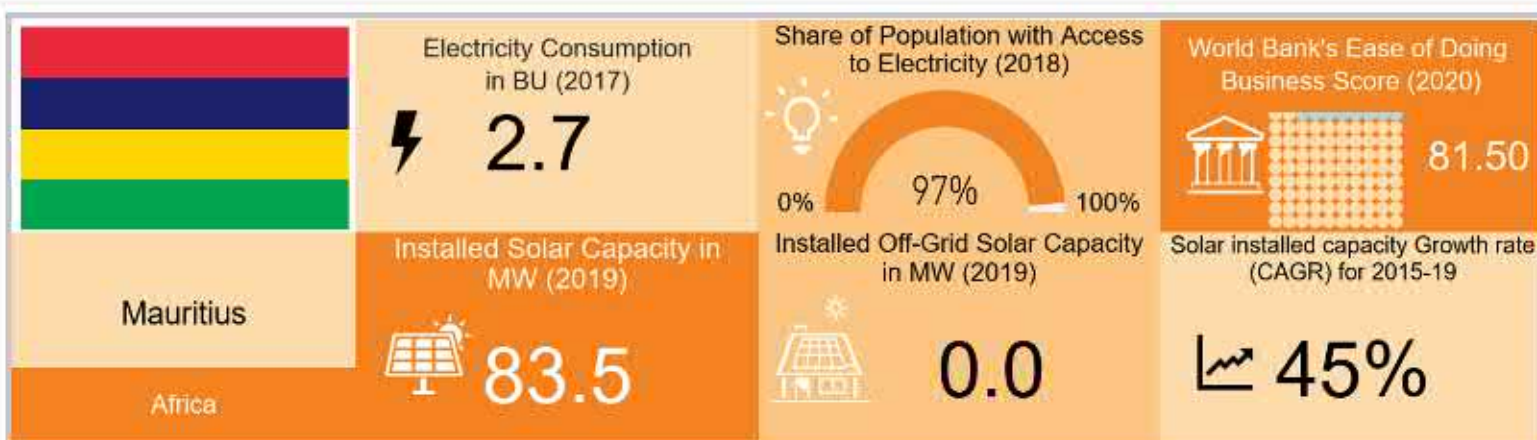


Installed Generation Capacity by Source



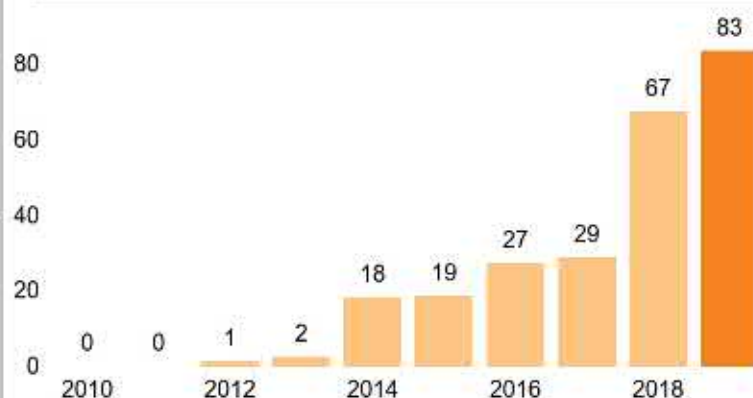
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
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Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



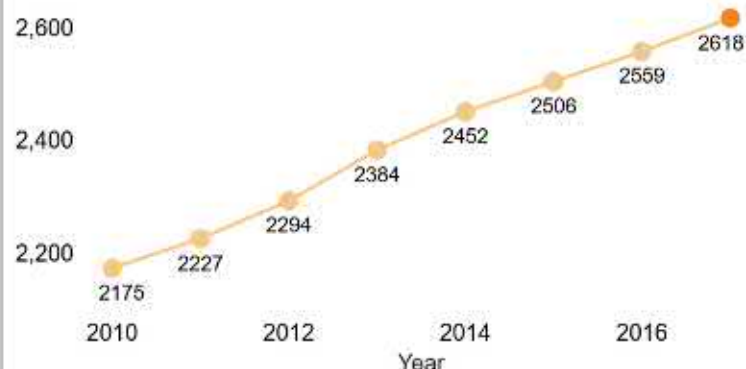


Power Trends

Cumulative Solar installed Capacity (MW)



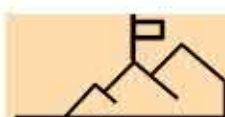
Overall Electricity Consumption (MU)



Access to Electricity

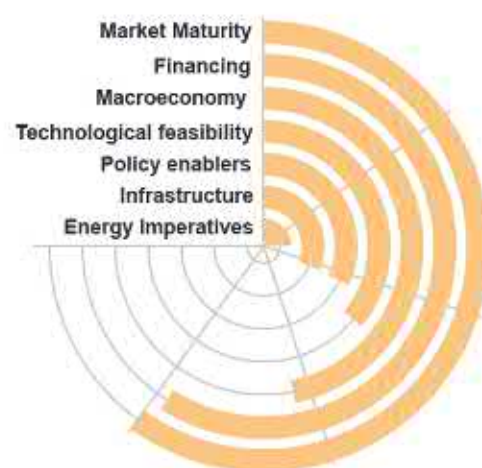


Ease of Doing Solar Classification



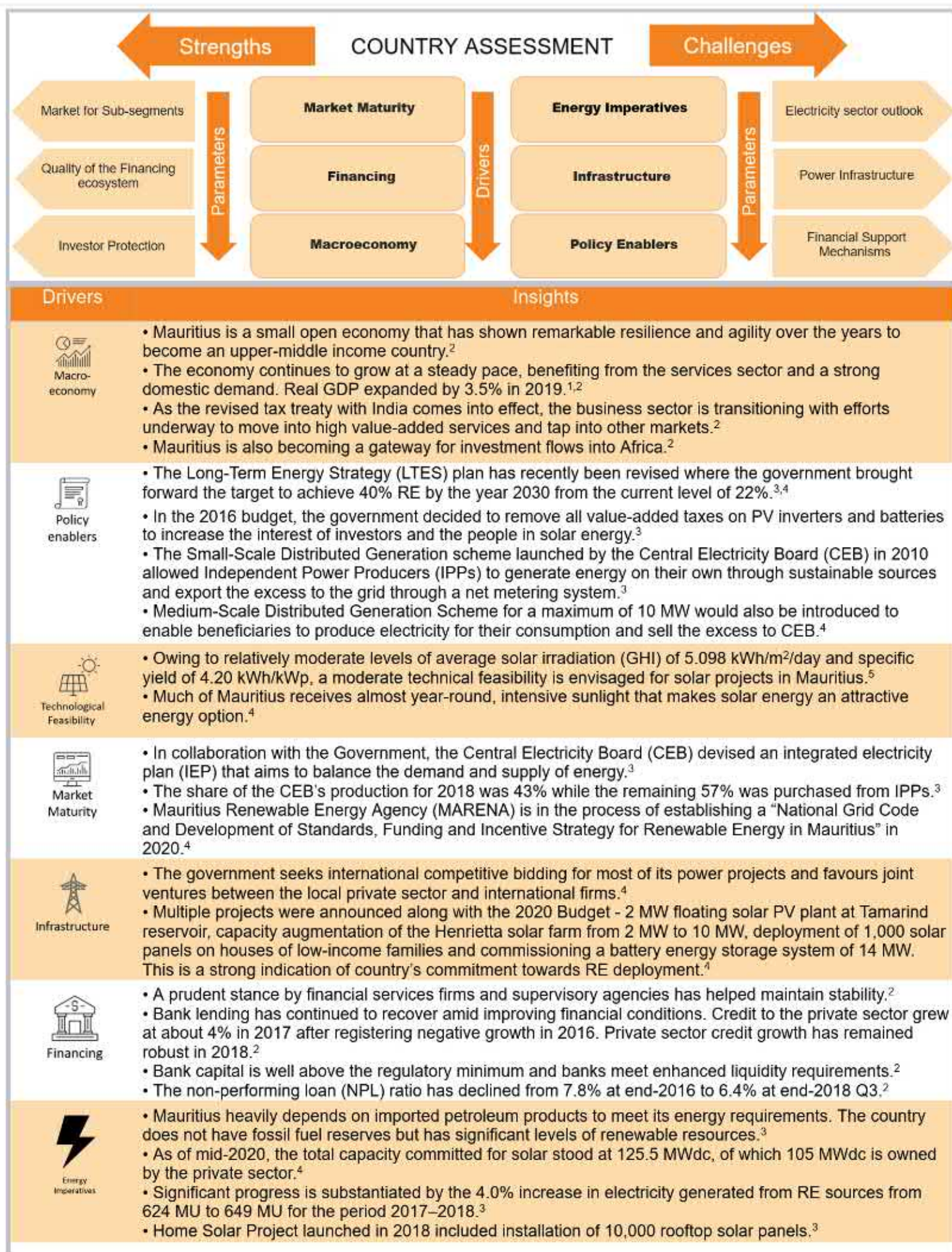
Influencer

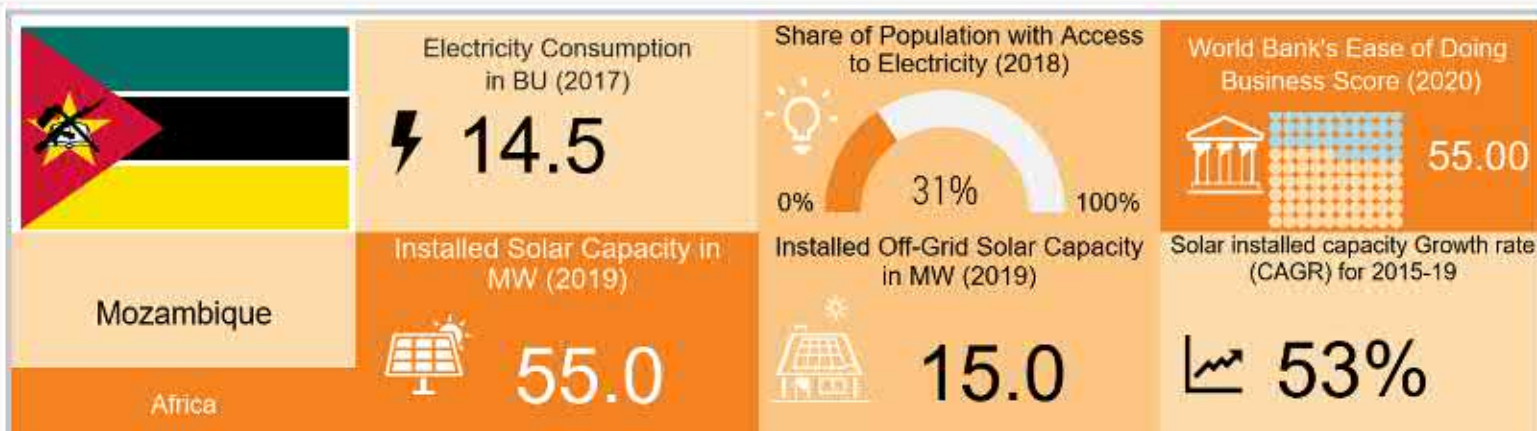
Performance against 7 Drivers



Sub-regional standing

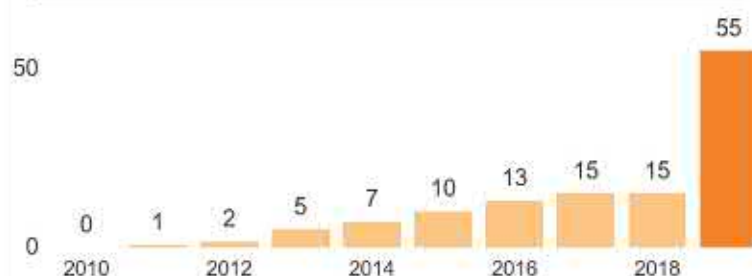




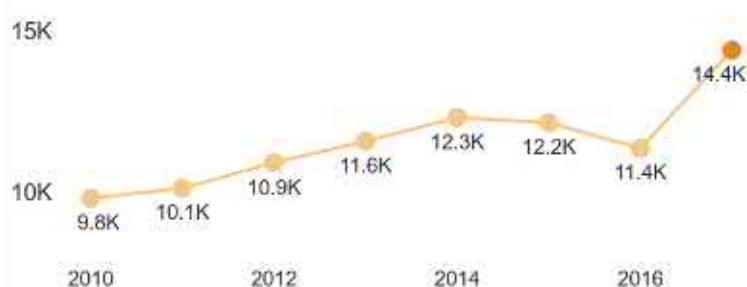


Power Trends

Cumulative Solar installed Capacity (MW)

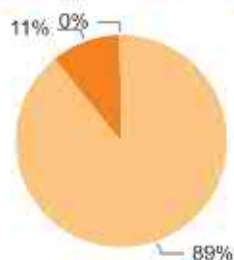


Overall Electricity Consumption (MU)

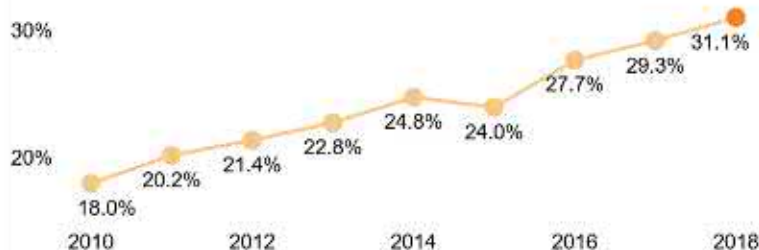


Consumer Mix

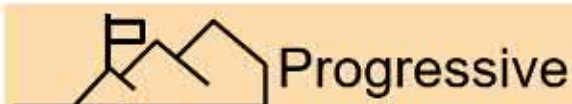
Commercial & Industrial Residential Others Agricultural



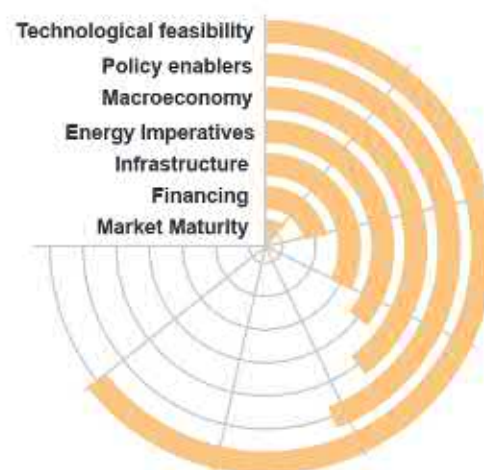
Access to Electricity



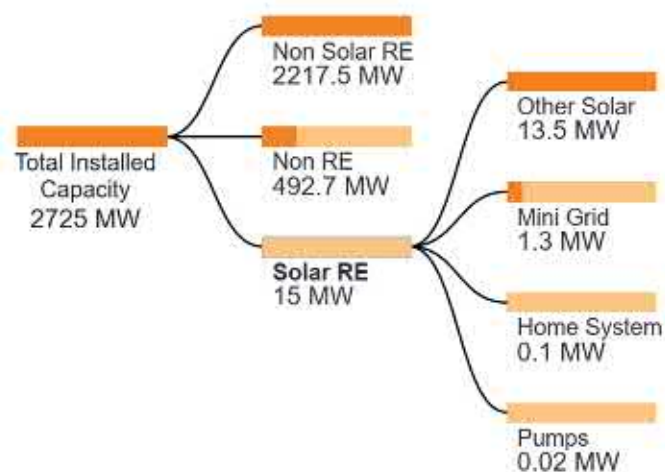
Ease of Doing Solar Classification



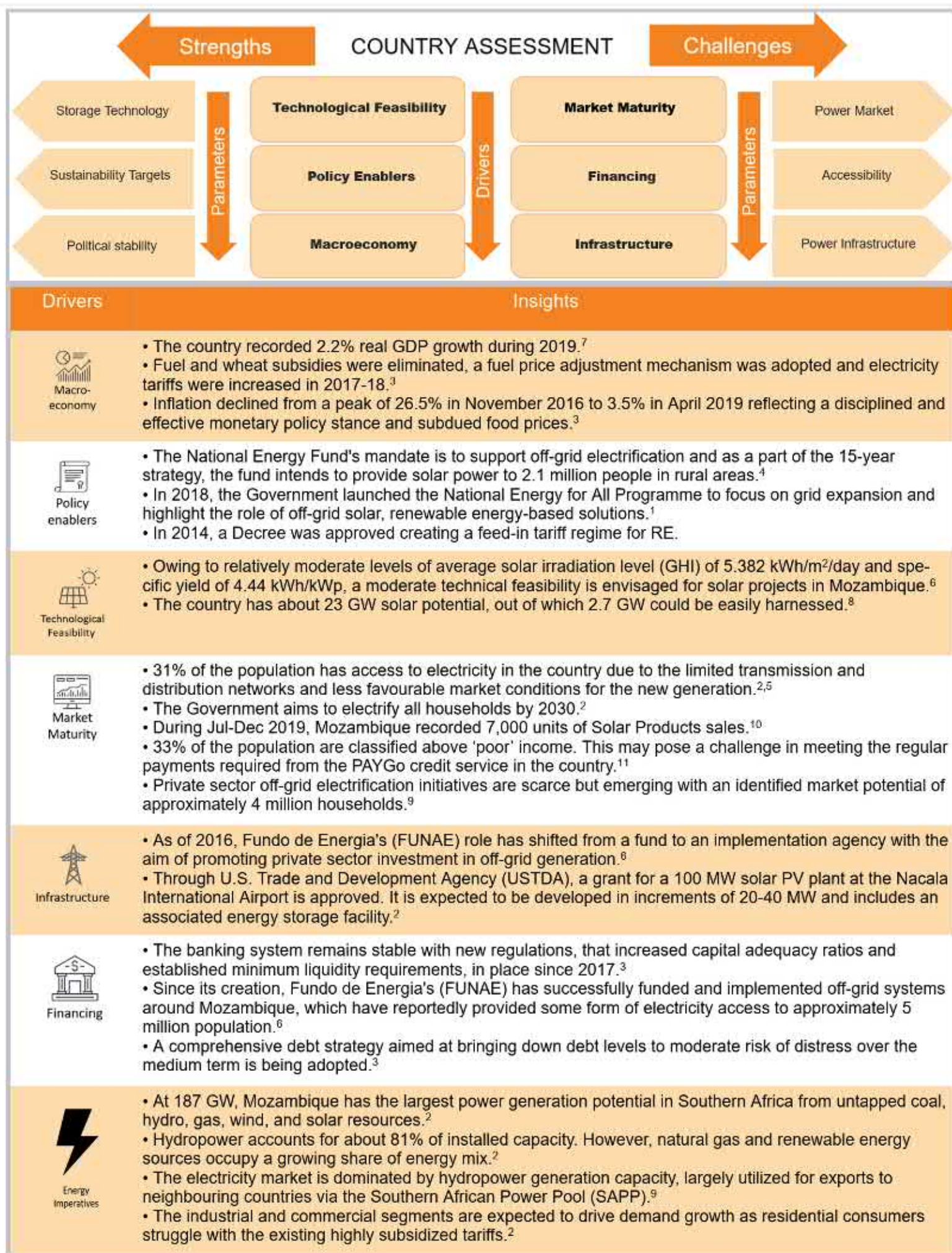
Performance against 7 Drivers

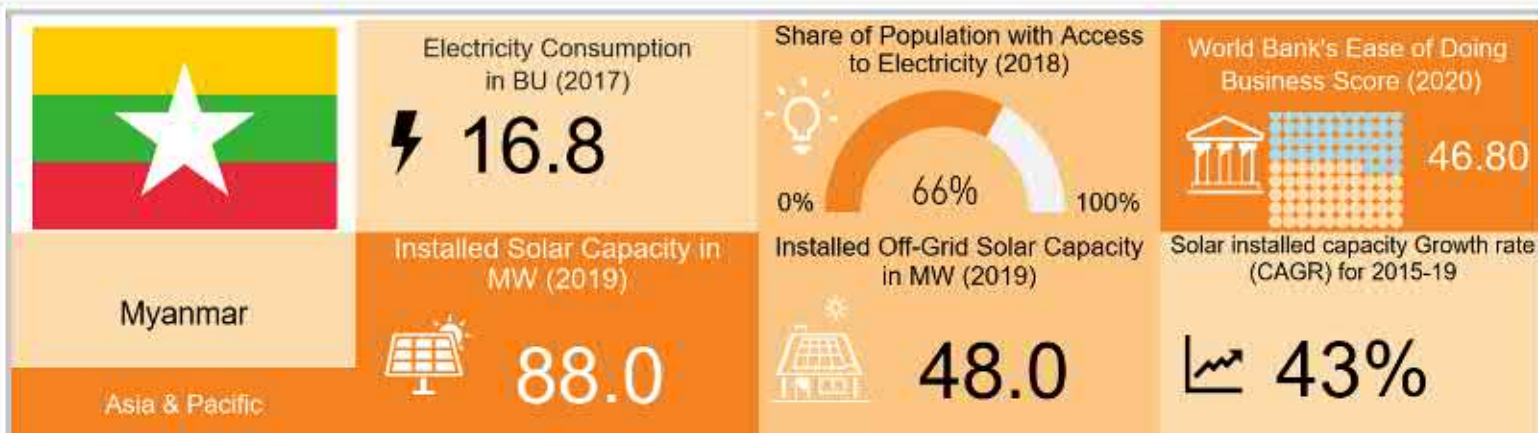


Installed Generation Capacity by Source



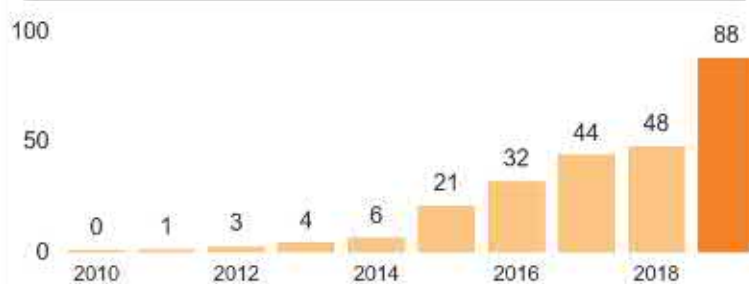
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Year: 2017.



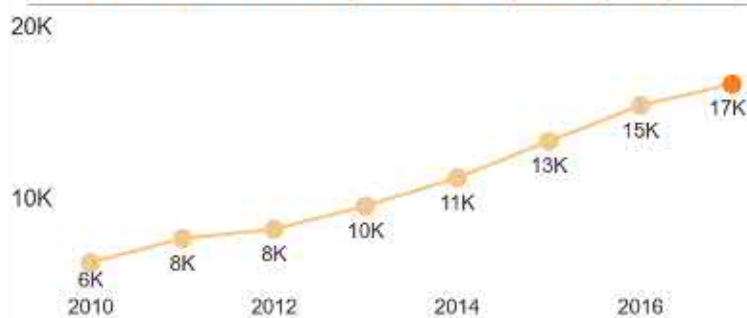


Power Trends

Cumulative Solar installed Capacity (MW)

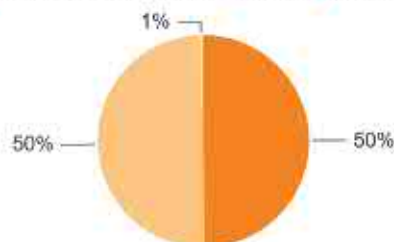


Overall Electricity Consumption (MU)

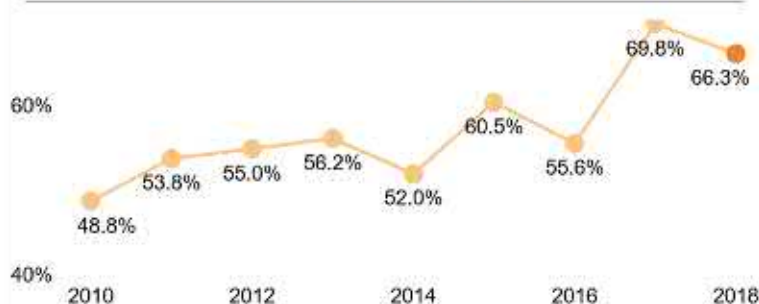


Consumer Mix

● Residential ● Commercial & Industrial ● Others ● Agricultural



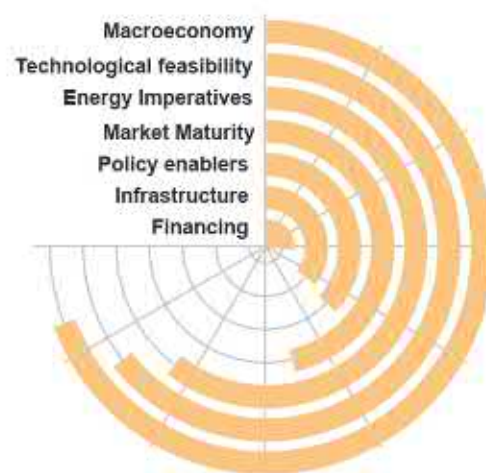
Access to Electricity



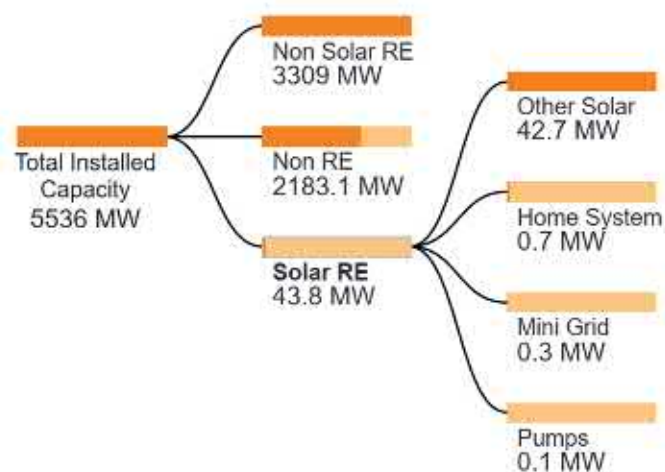
Ease of Doing Solar Classification



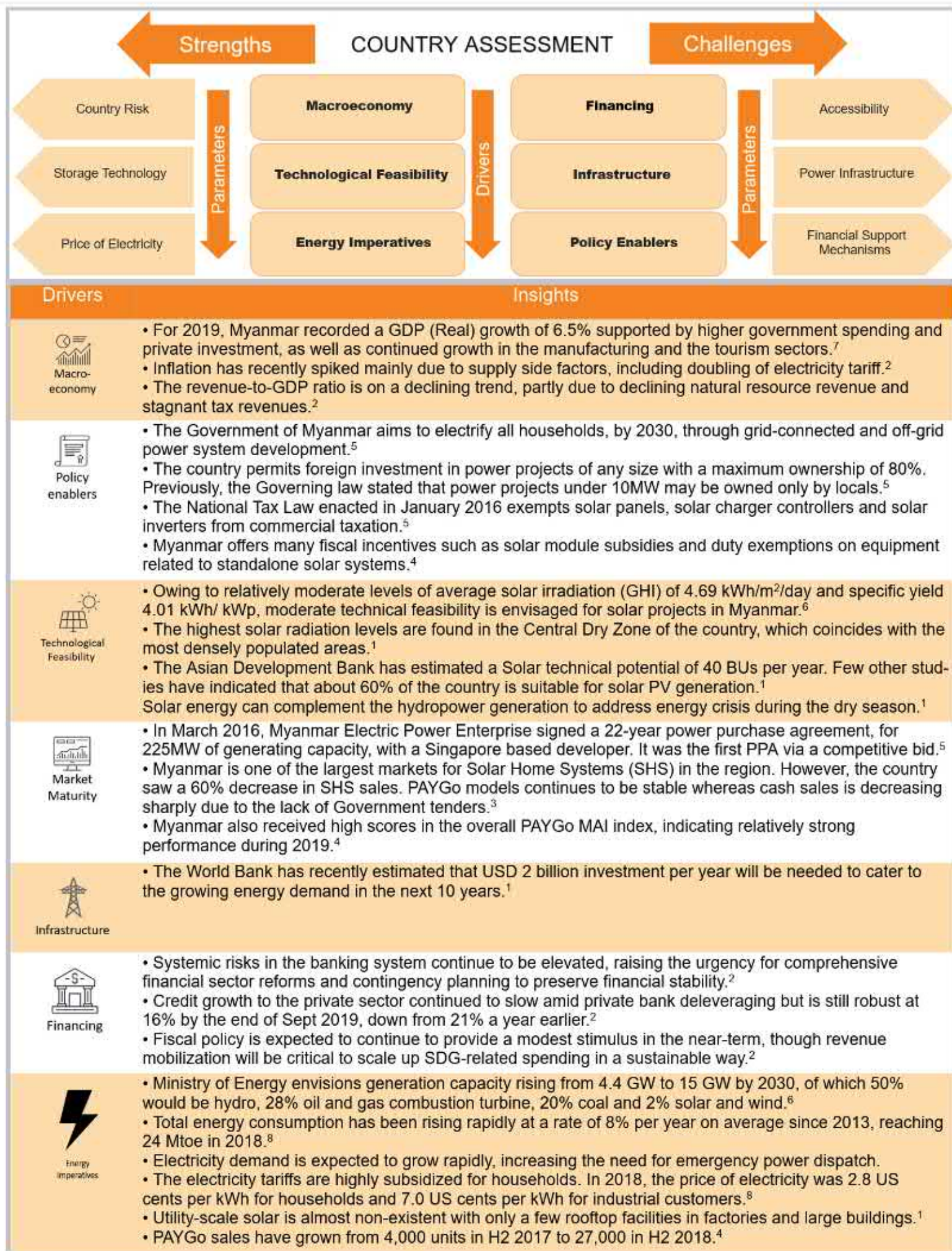
Performance against 7 Drivers

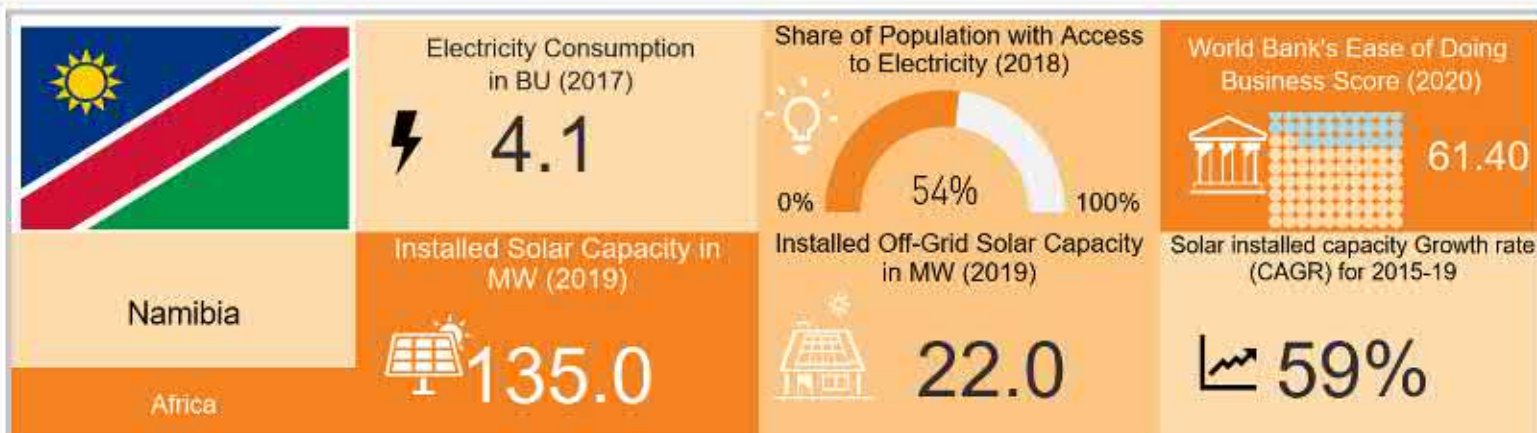


Installed Generation Capacity by Source



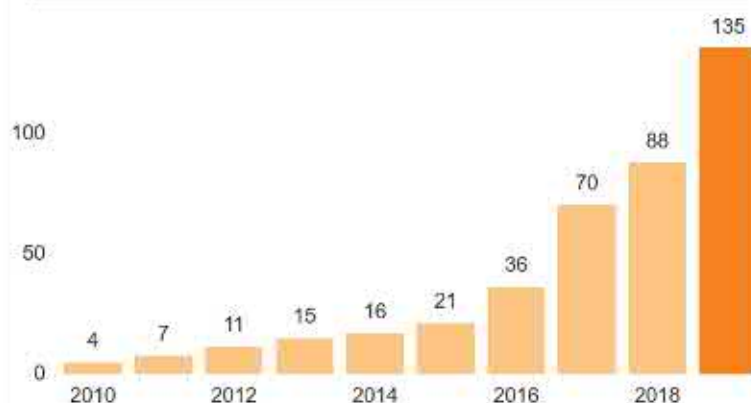
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 Year: 2017.





Power Trends

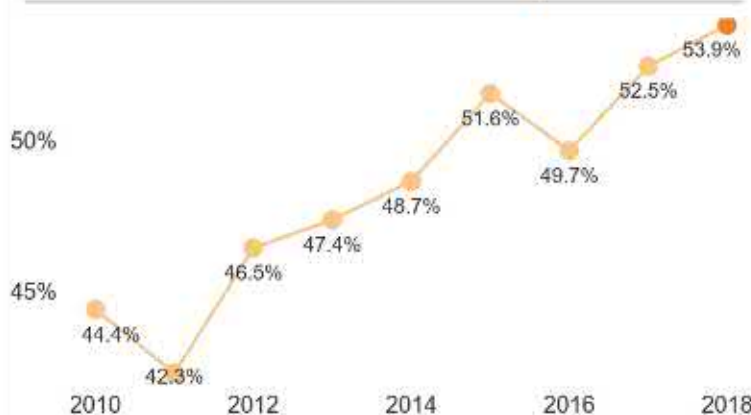
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

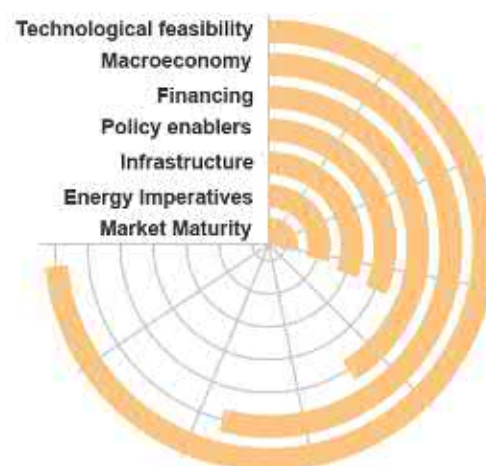


Ease of Doing Solar Classification

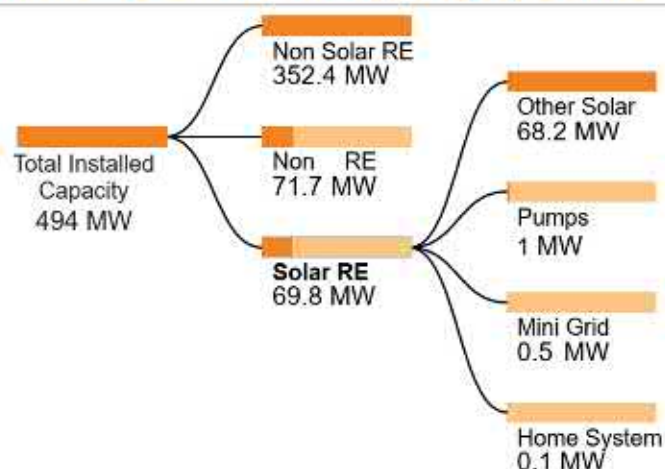


Influencer

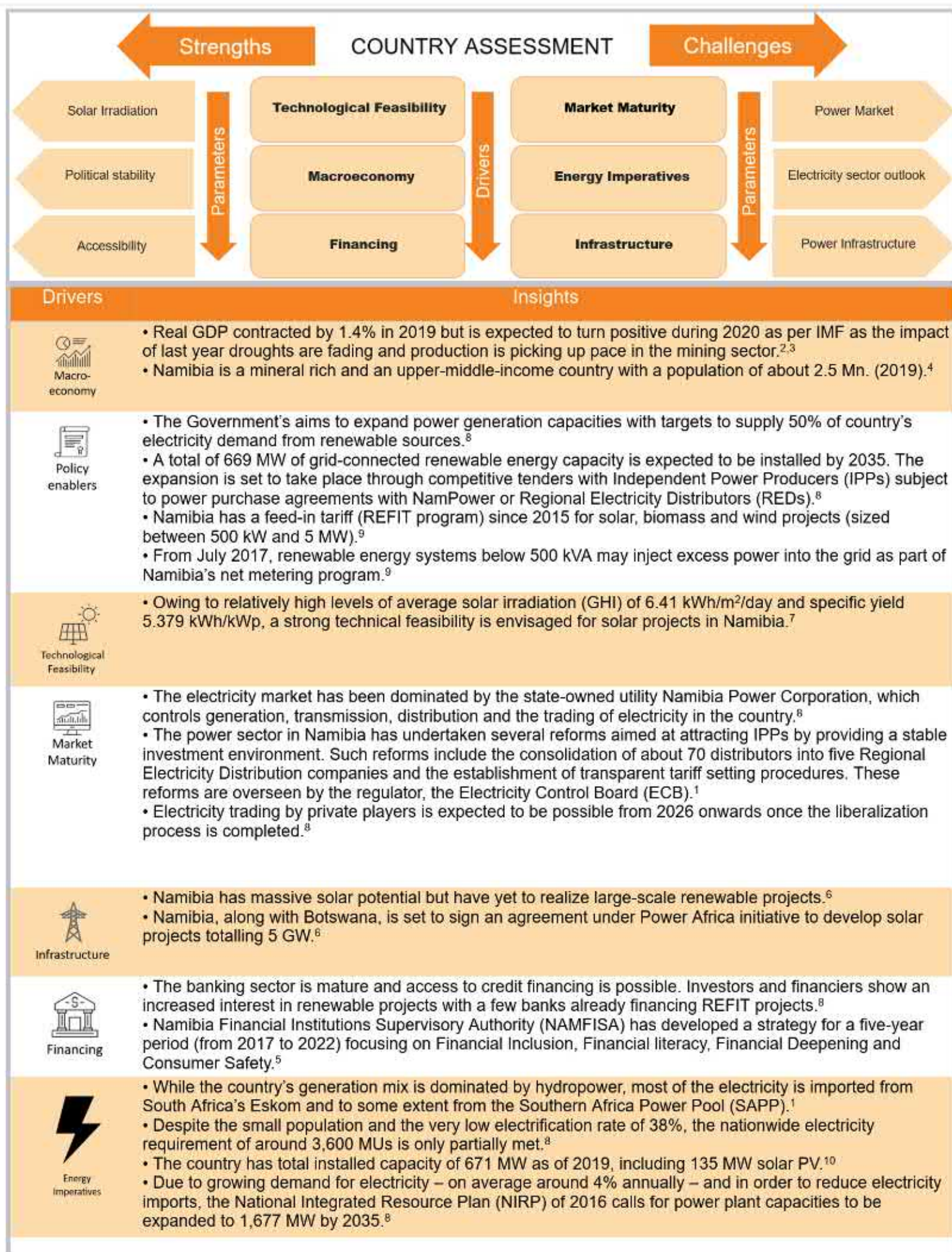
Performance against 7 Drivers

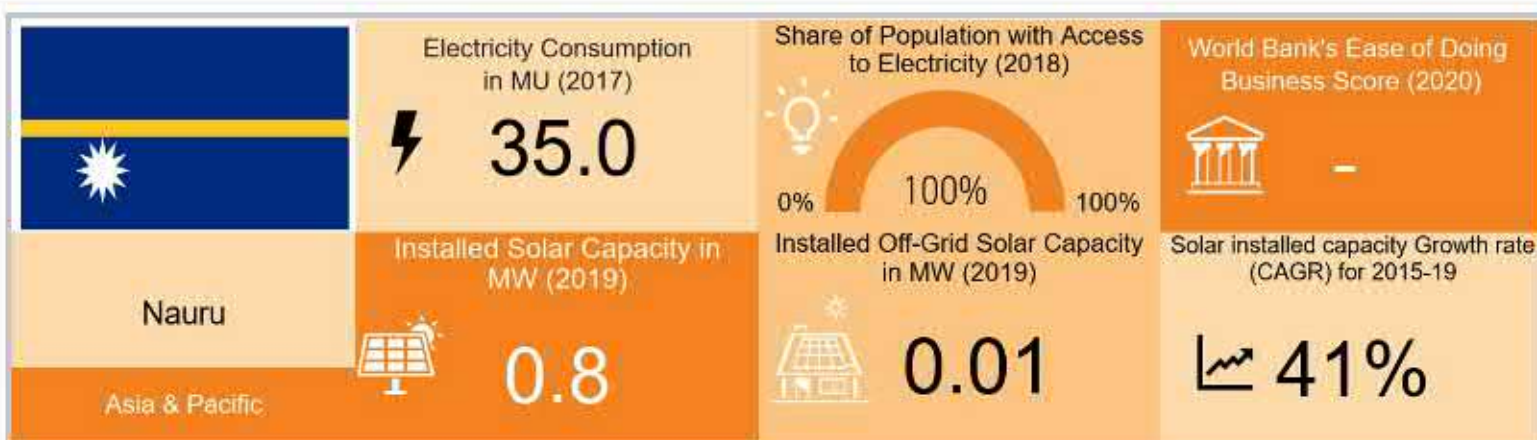


Installed Generation Capacity by Source



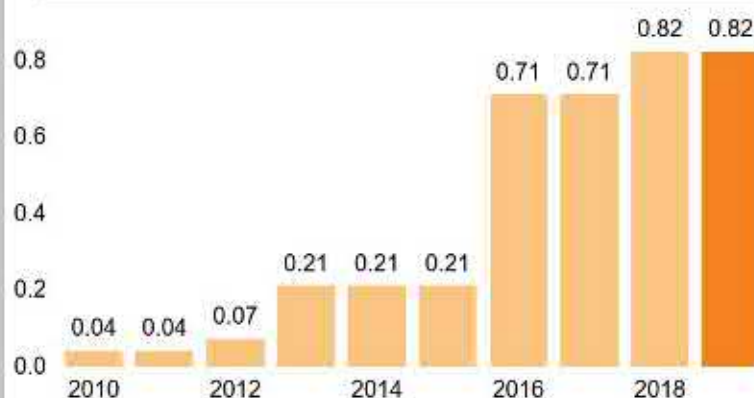
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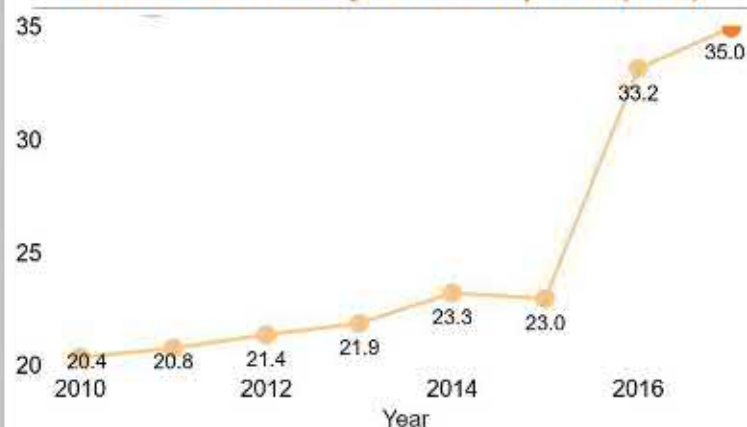


Power Trends

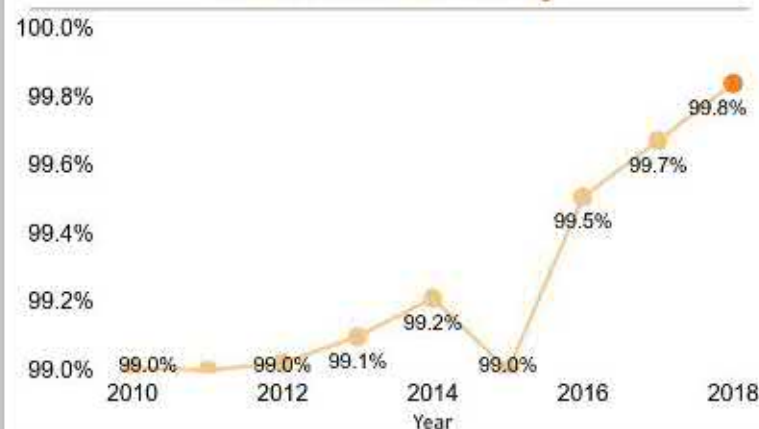
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



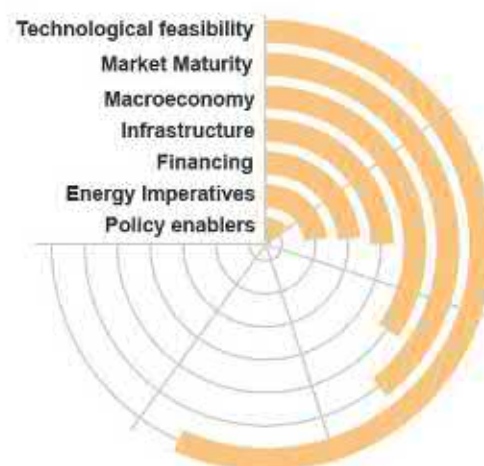
Access to Electricity



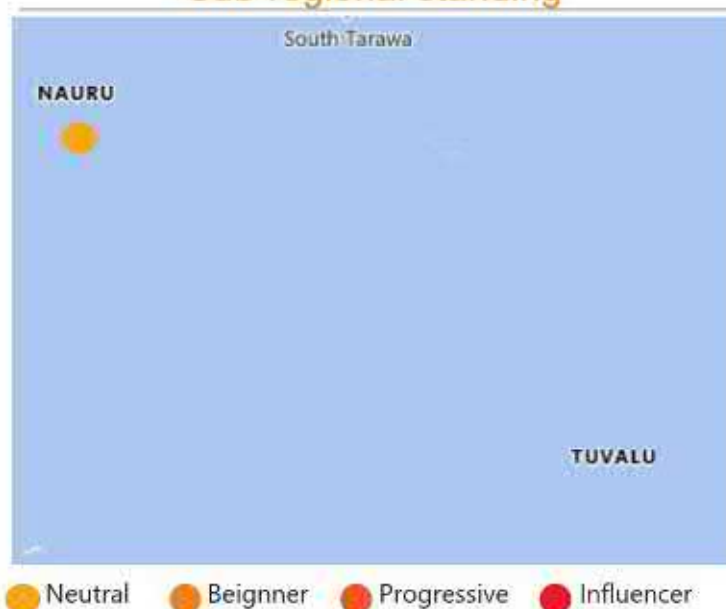
Ease of Doing Solar Classification

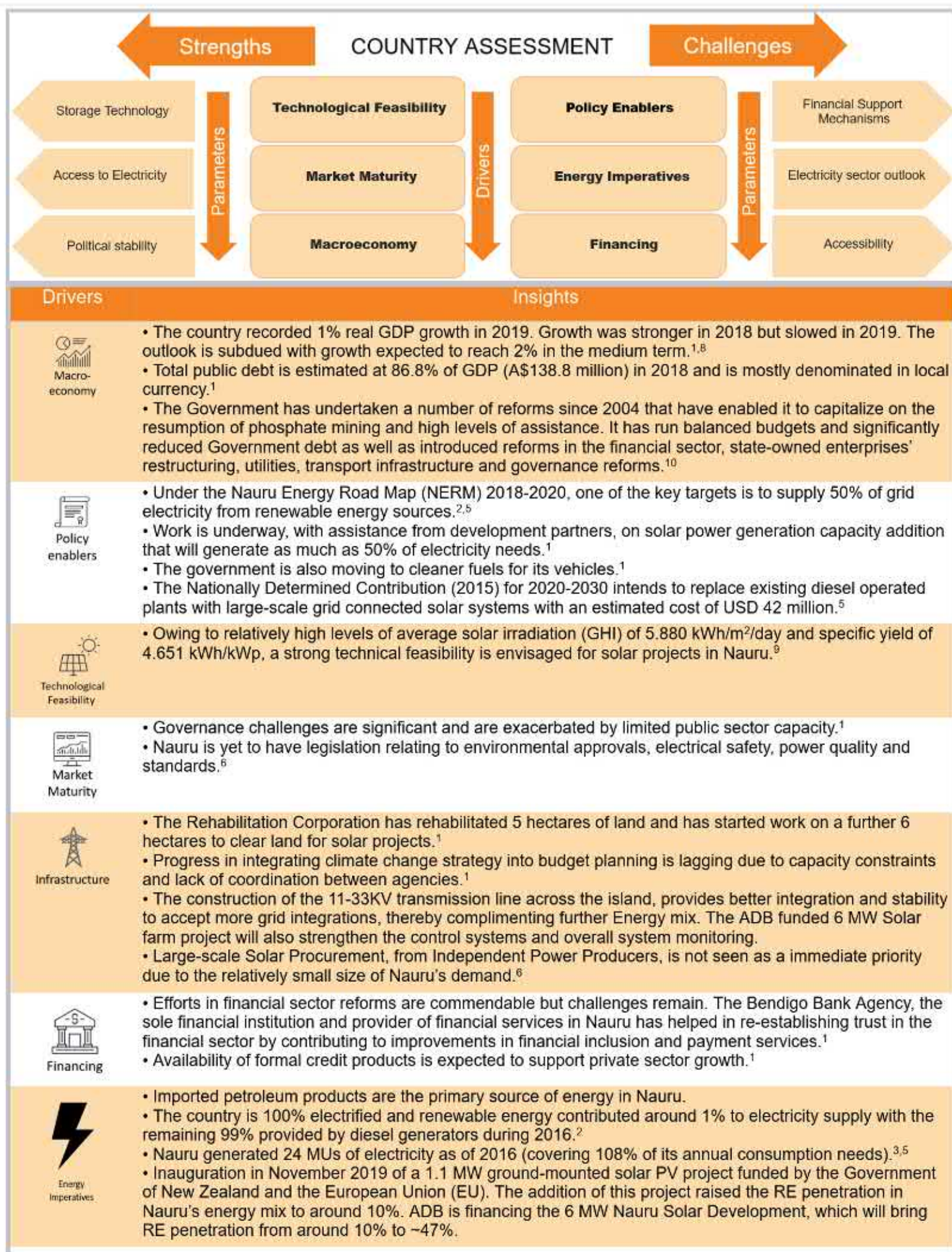


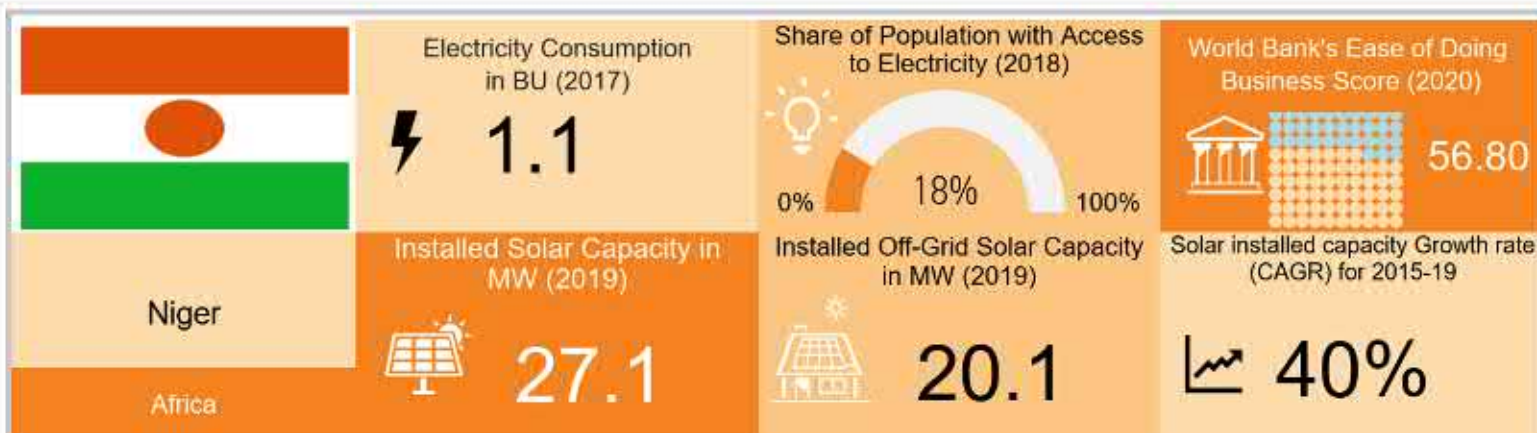
Performance against 7 Drivers



Sub-regional standing

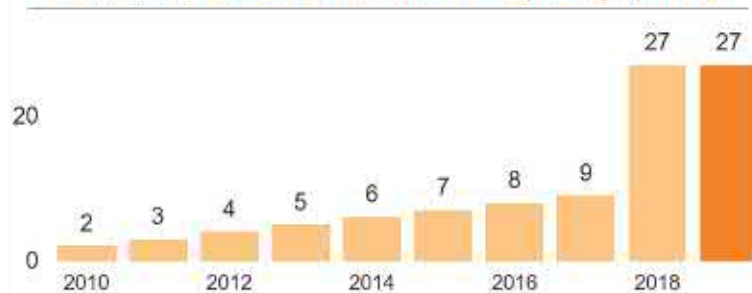




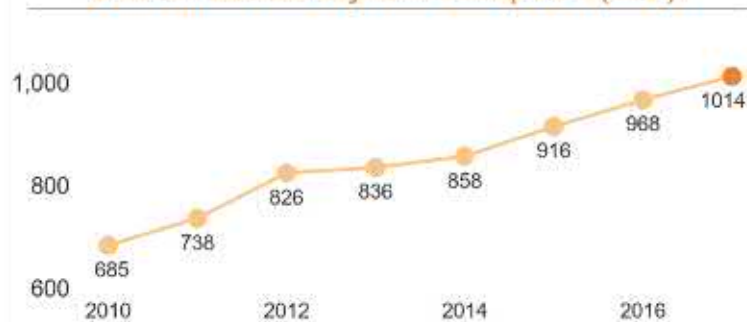


Power Trends

Cumulative Solar installed Capacity (MW)

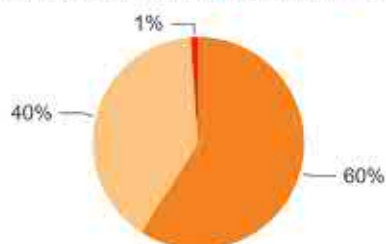


Overall Electricity Consumption (MU)

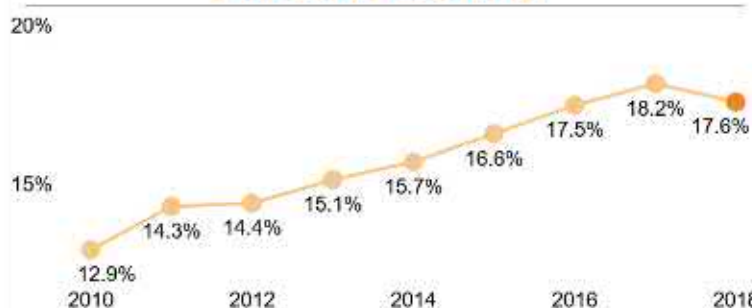


Consumer Mix

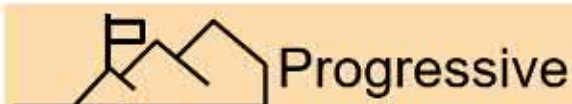
● Residential ● Commercial & Industrial ● Agricultural ● Others



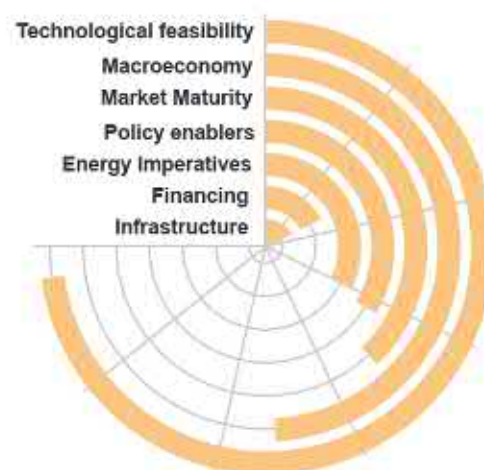
Access to Electricity



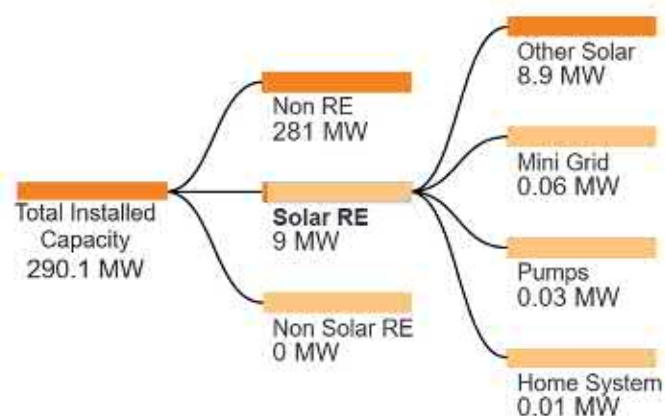
Ease of Doing Solar Classification



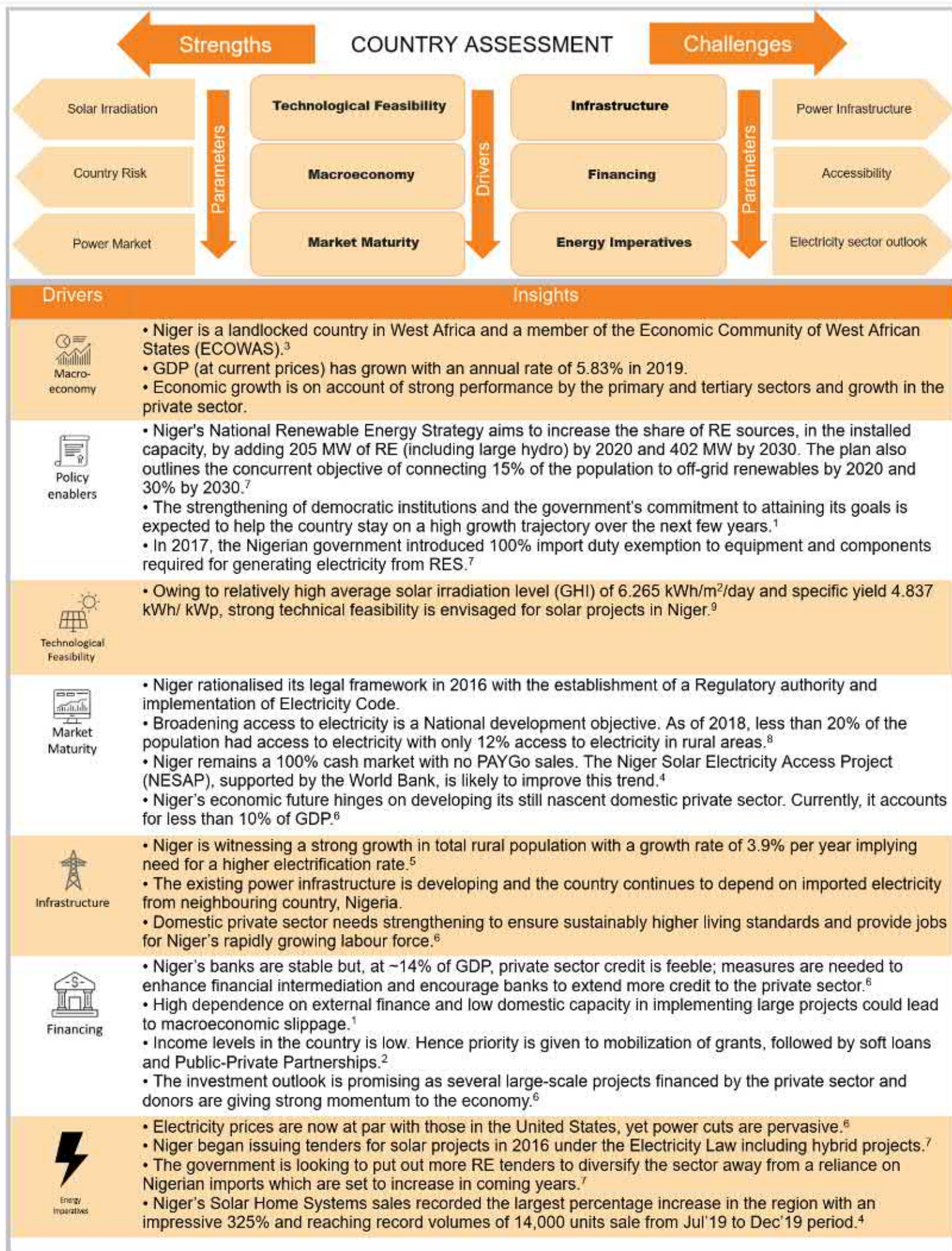
Performance against 7 Drivers

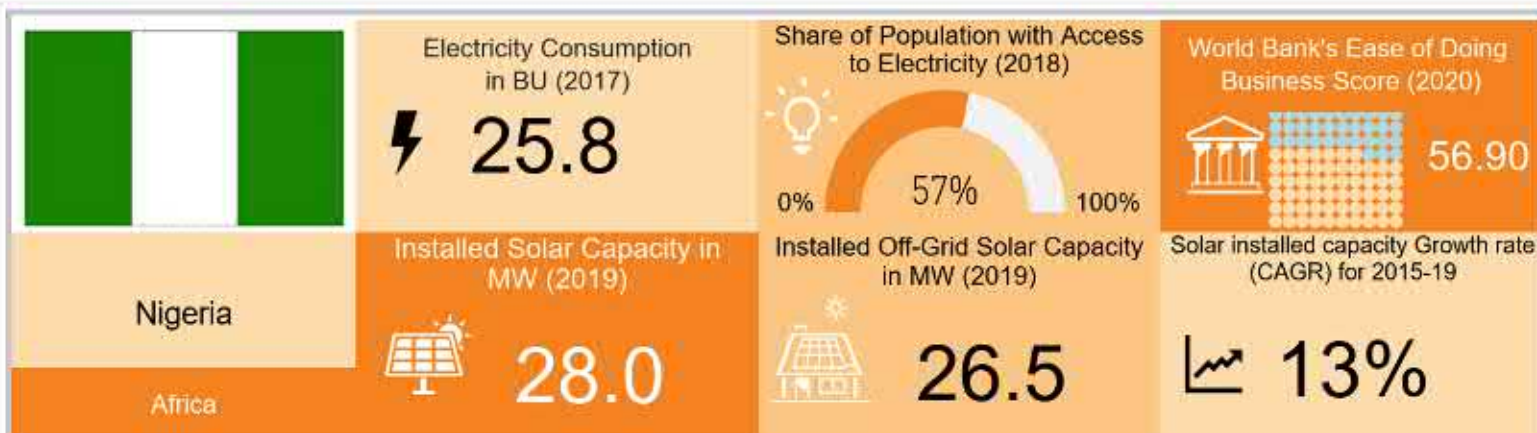


Installed Generation Capacity by Source



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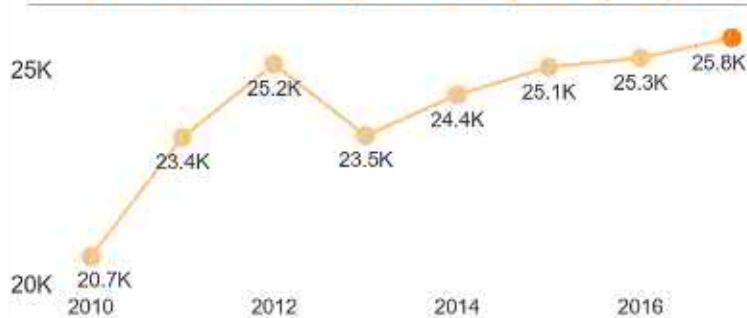


Power Trends

Cumulative Solar installed Capacity (MW)

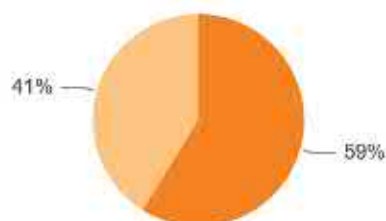


Overall Electricity Consumption (MU)

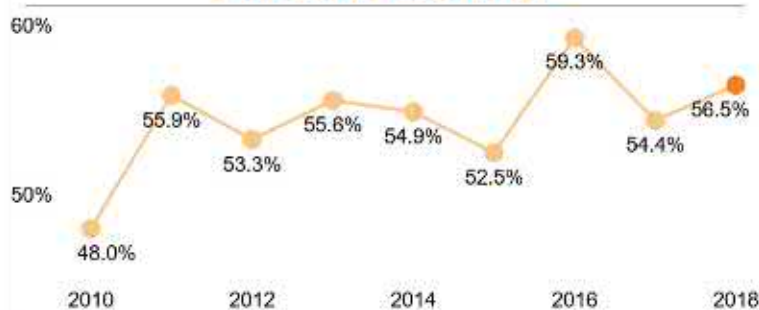


Consumer Mix

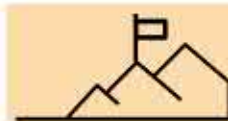
● Residential ● Commercial & Industrial ● Agricultural ● Others



Access to Electricity

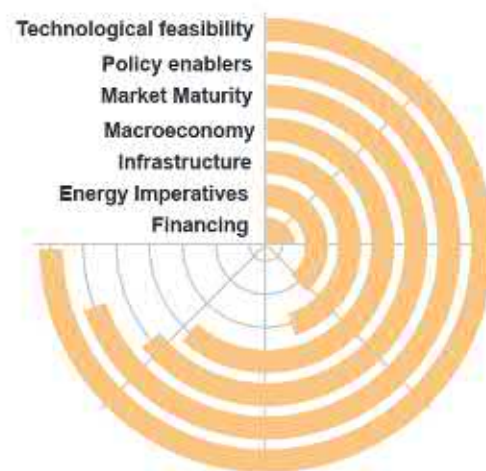


Ease of Doing Solar Classification

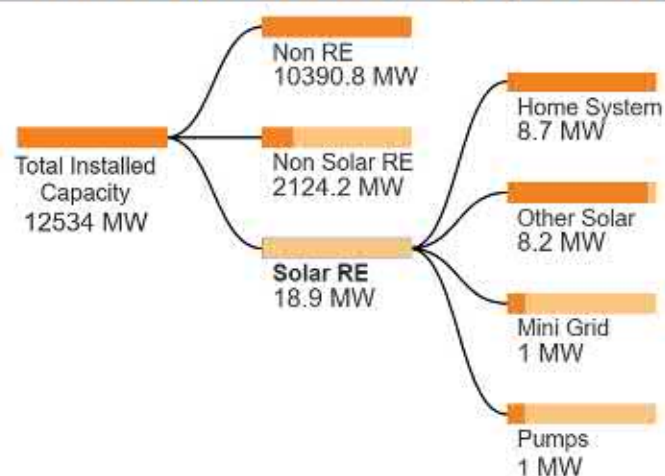


Influencer

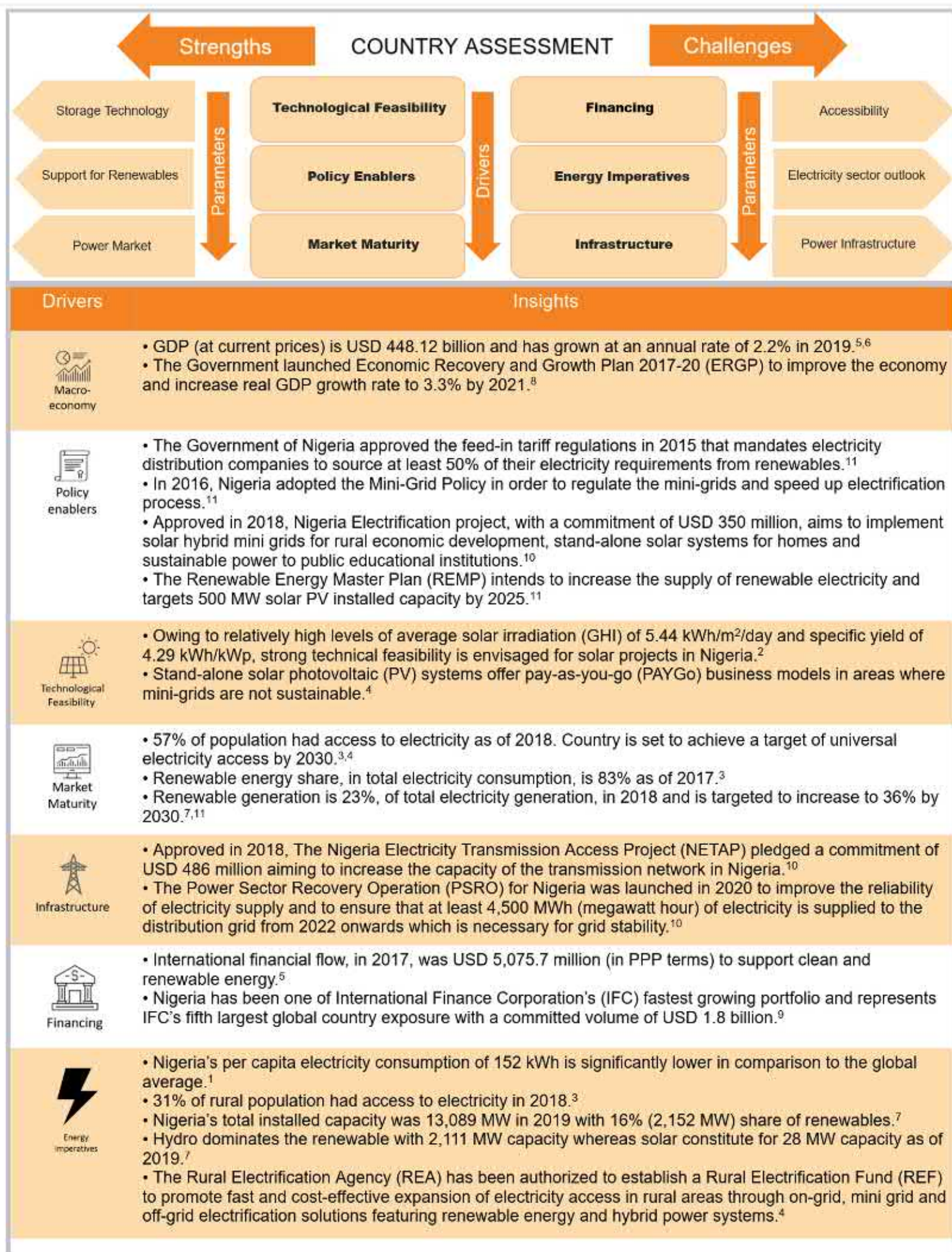
Performance against 7 Drivers

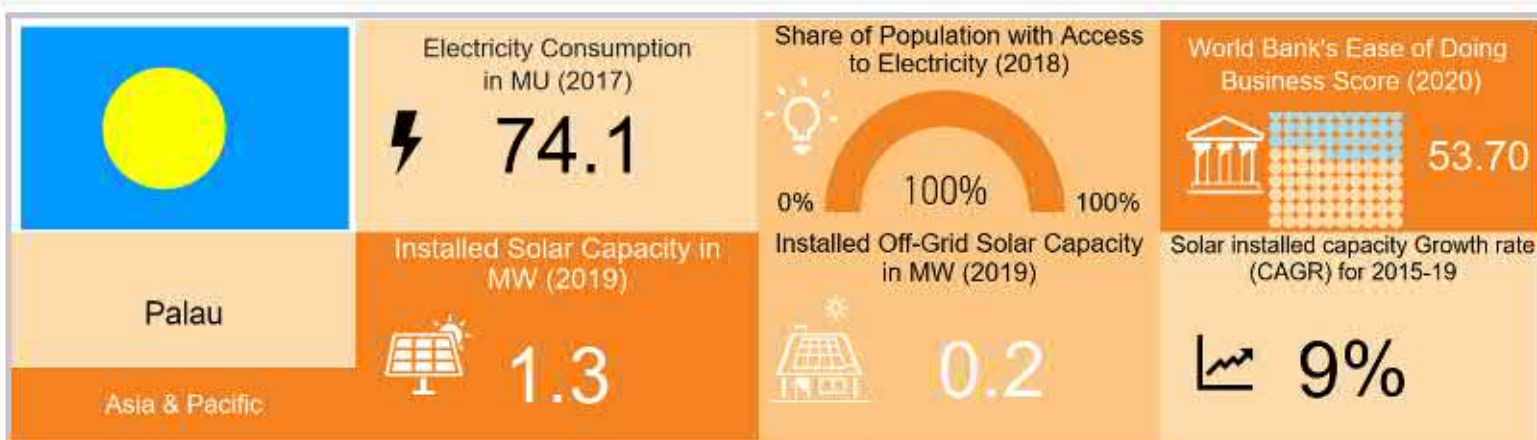


Installed Generation Capacity by Source



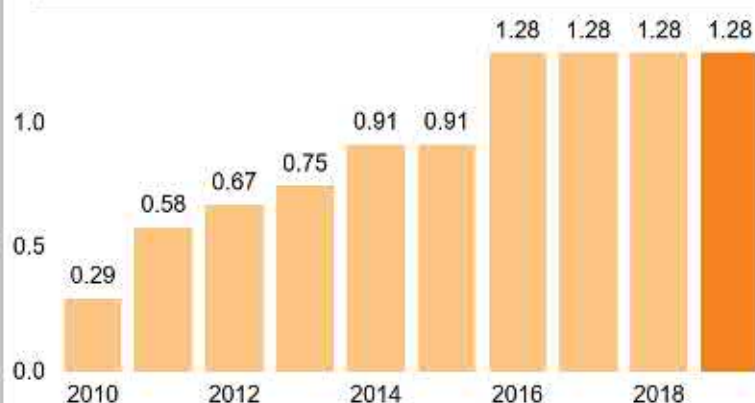
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



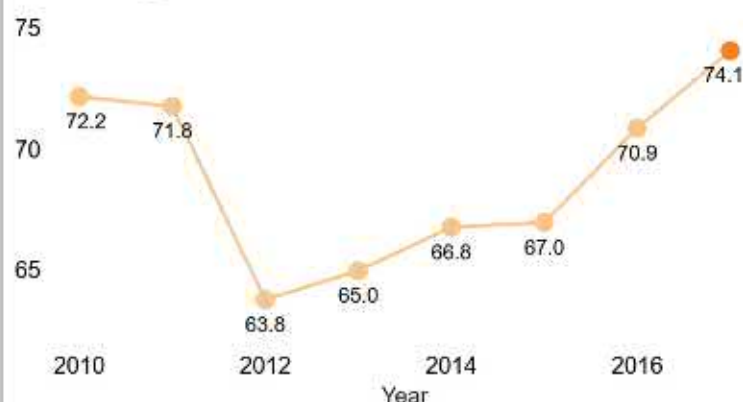


Power Trends

Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



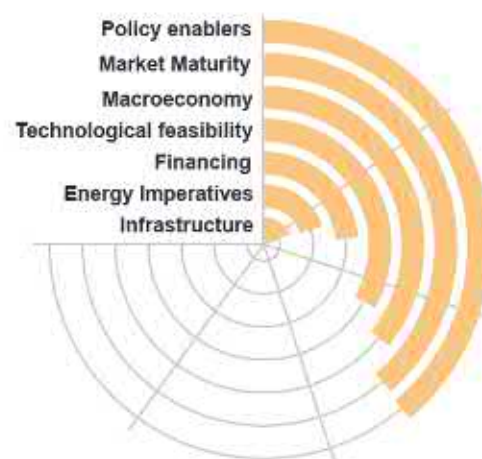
Access to Electricity



Ease of Doing Solar Classification

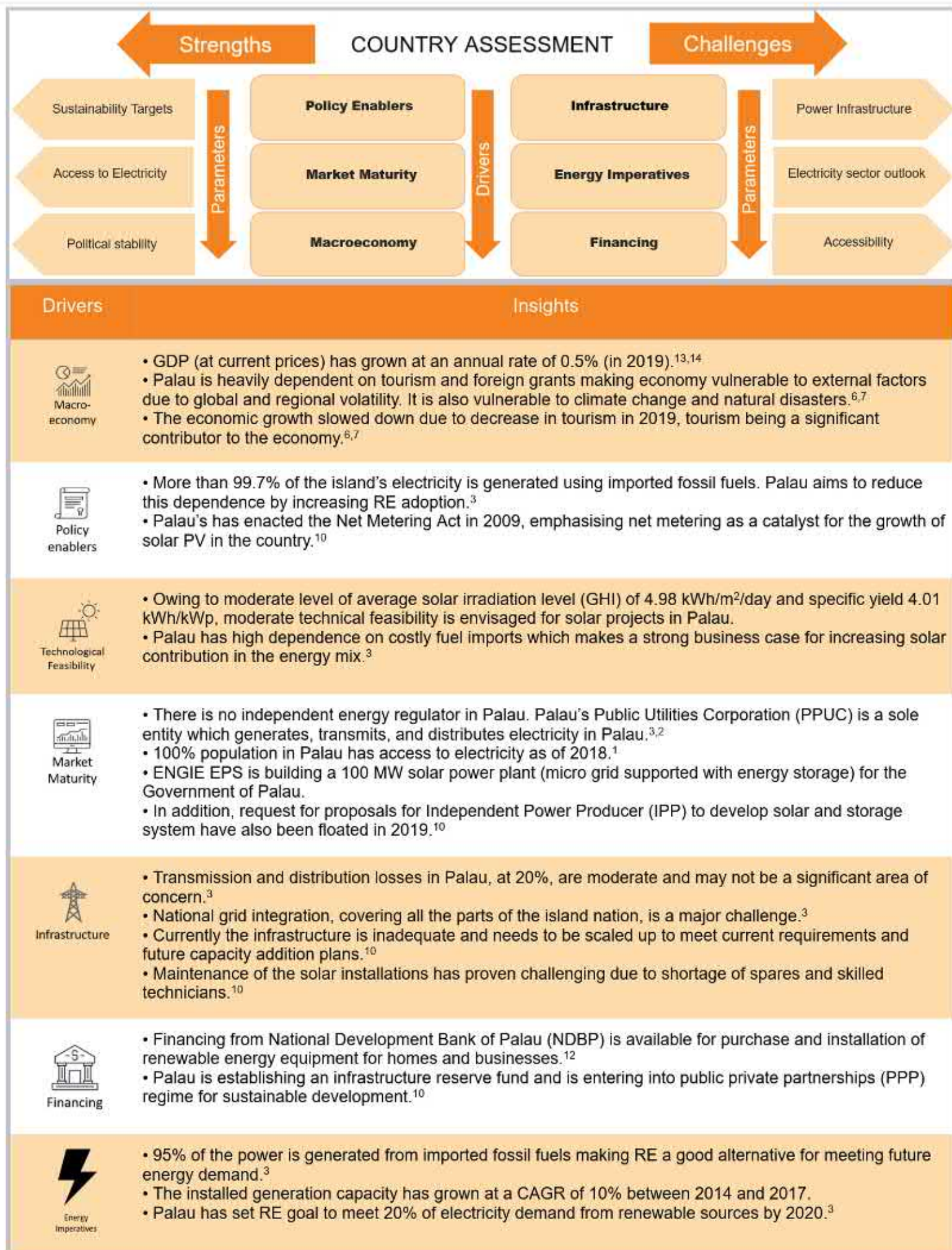


Performance against 7 Drivers



Sub-regional standing







Papua New Guinea

Asia & Pacific

Electricity Consumption
in BU (2017)

⚡ 4.0

Installed Solar Capacity in
MW (2019)

☀️ 1.3

Share of Population with Access
to Electricity (2018)



Installed Off-Grid Solar Capacity
in MW (2019)

🏠 1.0

World Bank's Ease of Doing
Business Score (2020)

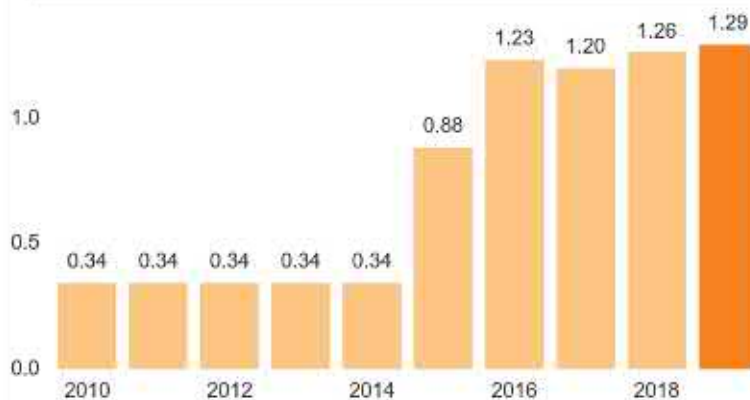
🏛️ 59.80

Solar installed capacity Growth rate
(CAGR) for 2015-19

📈 10%

Power Trends

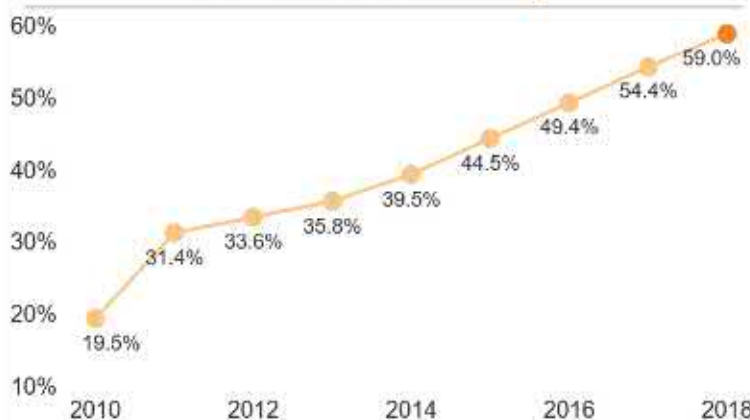
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

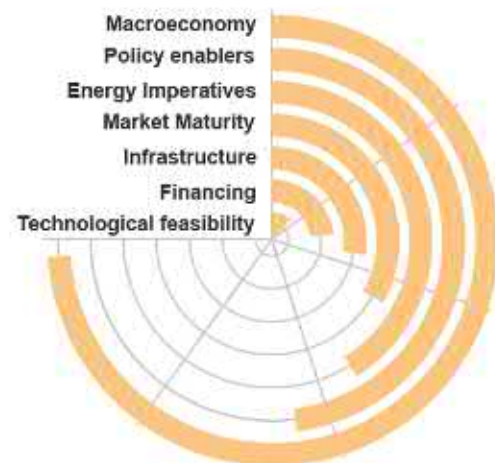


Ease of Doing Solar Classification

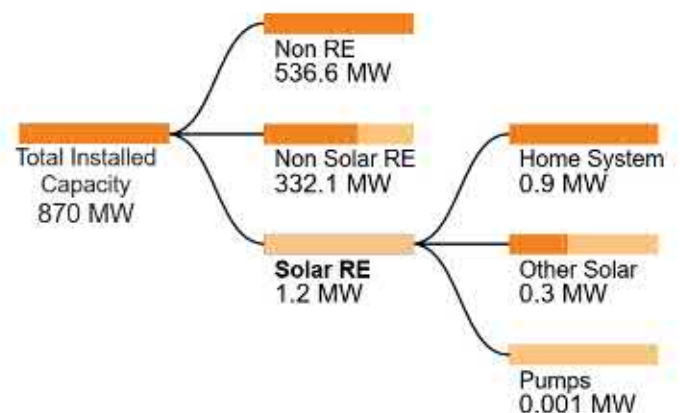


Potential

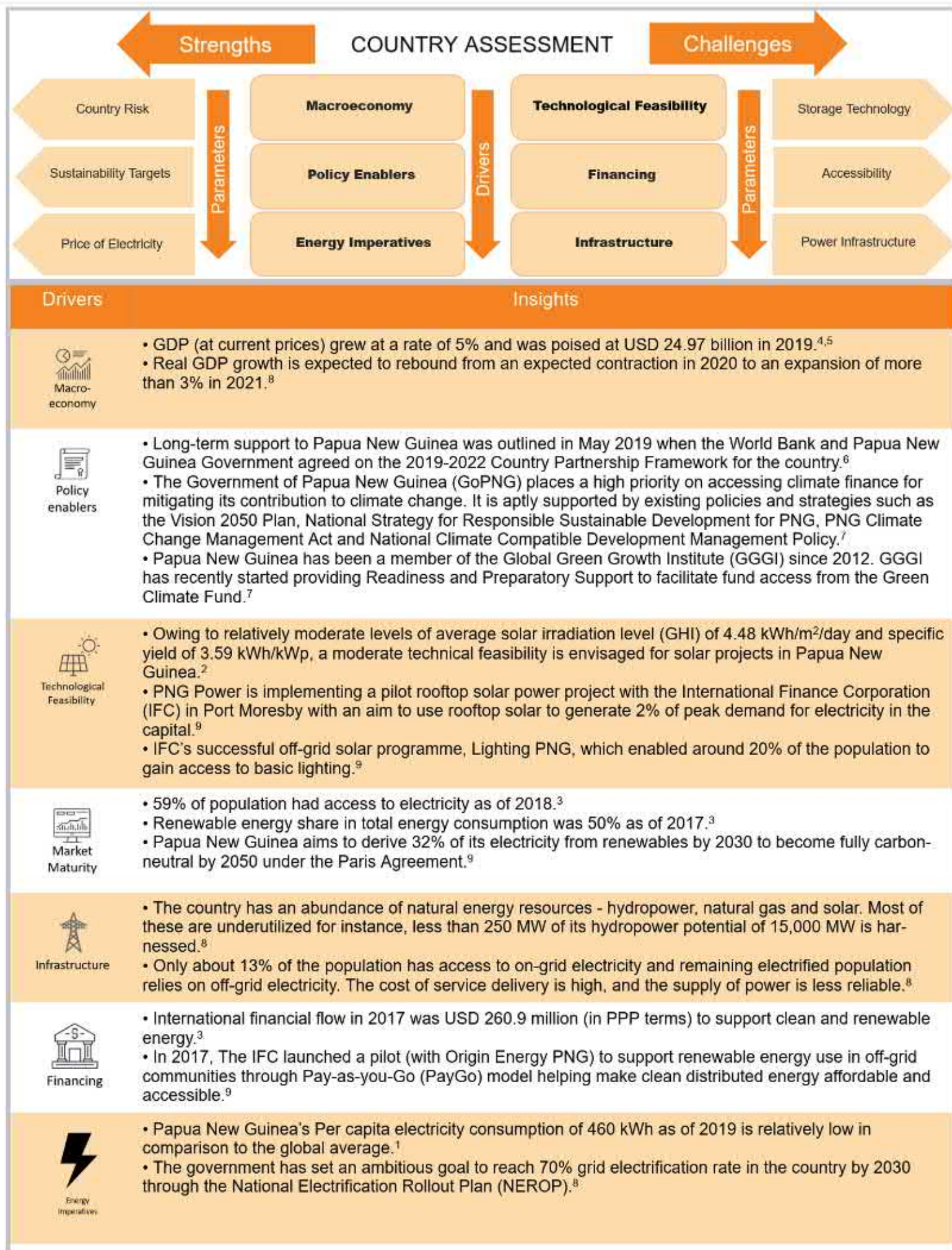
Performance against 7 Drivers

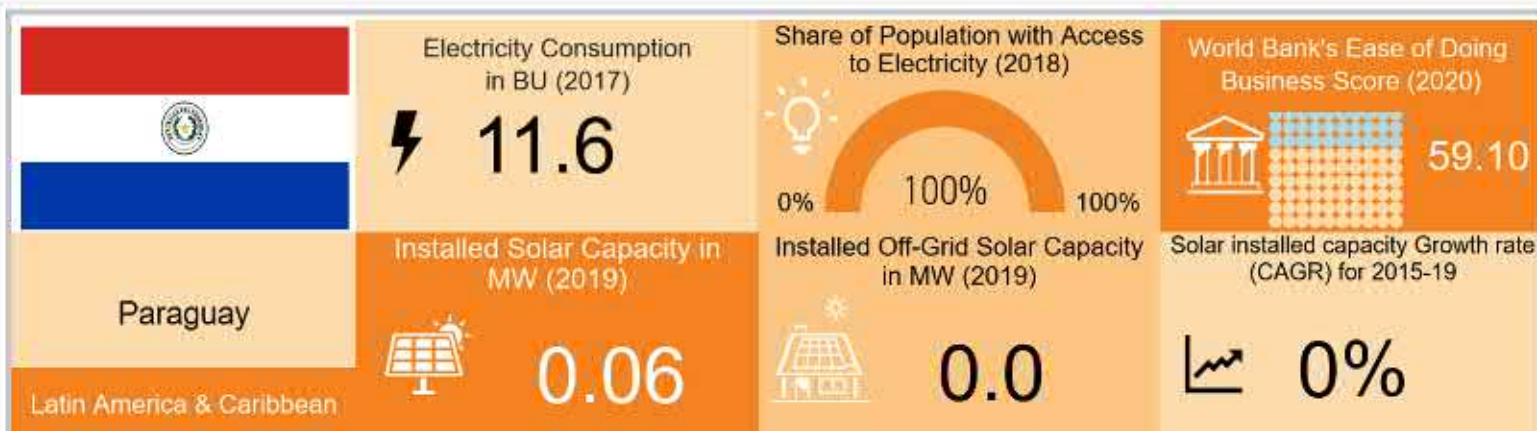


Installed Generation Capacity by Source



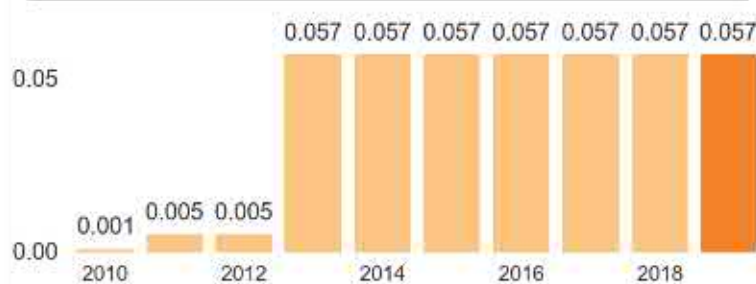
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



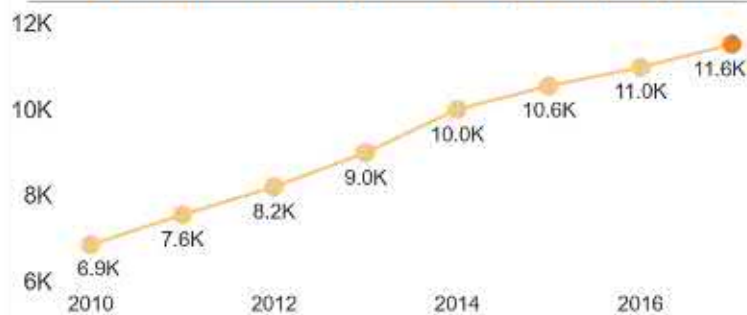


Power Trends

Cumulative Solar installed Capacity (MW)

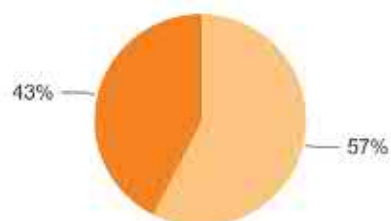


Overall Electricity Consumption (MU)

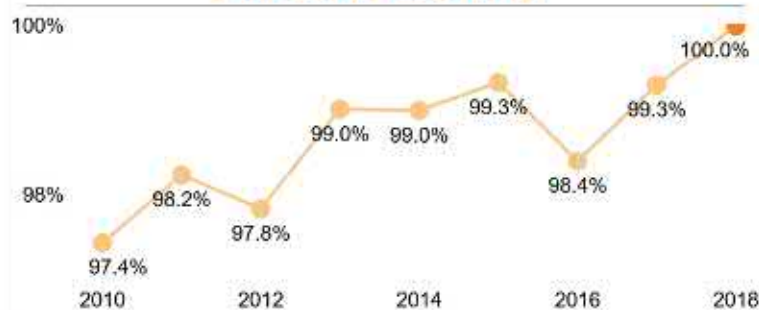


Consumer Mix

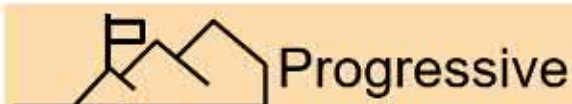
Commercial & Industrial Residential Agricultural Others



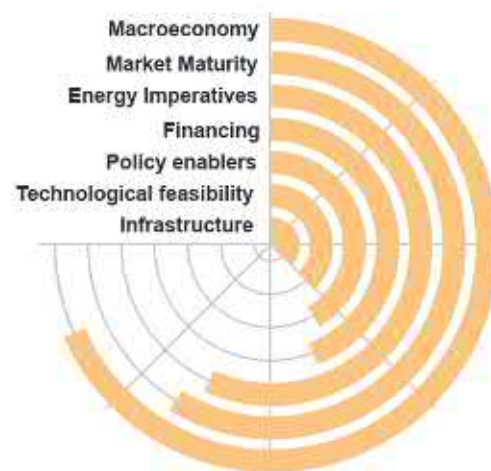
Access to Electricity



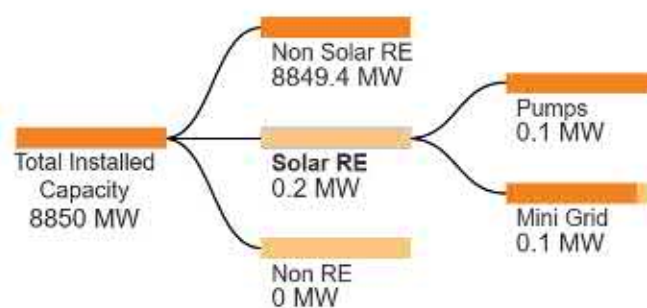
Ease of Doing Solar Classification



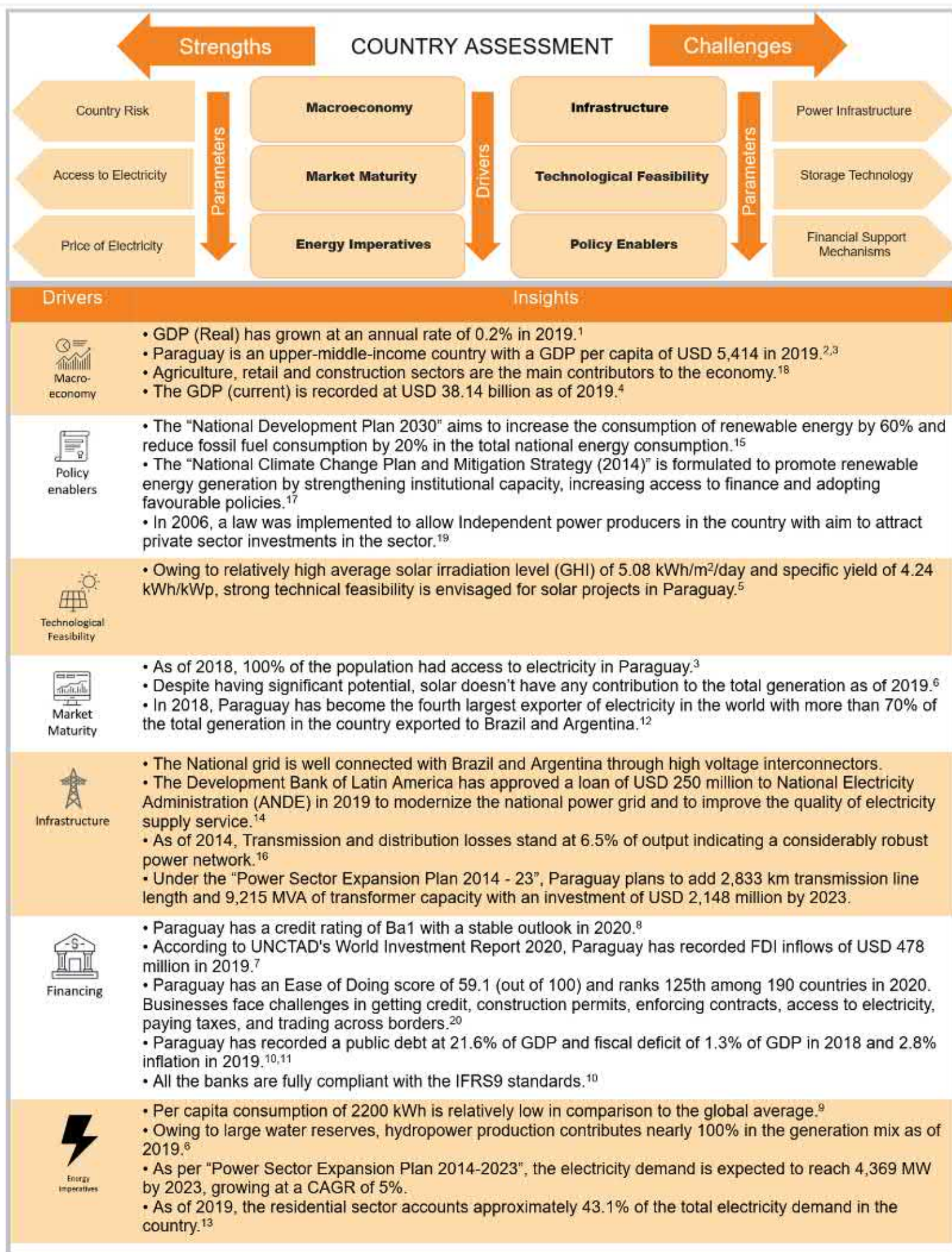
Performance against 7 Drivers



Installed Generation Capacity by Source



Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.





Peru

Latin America & Caribbean

Electricity Consumption
in BU (2017)

⚡ 46.5

Installed Solar Capacity in
MW (2019)



326.3

Share of Population with Access
to Electricity (2018)



0%

95%

100%

Installed Off-Grid Solar Capacity
in MW (2019)



45.8

World Bank's Ease of Doing
Business Score (2020)



68.70

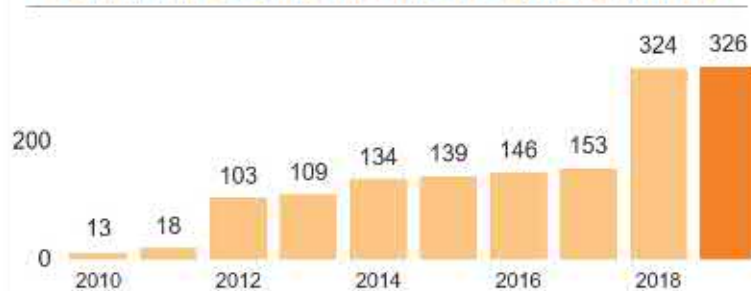
Solar installed capacity Growth rate
(CAGR) for 2015-19



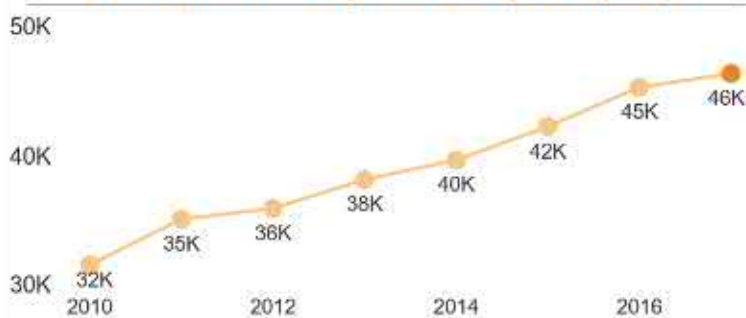
24%

Power Trends

Cumulative Solar installed Capacity (MW)

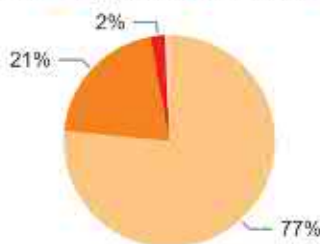


Overall Electricity Consumption (MU)

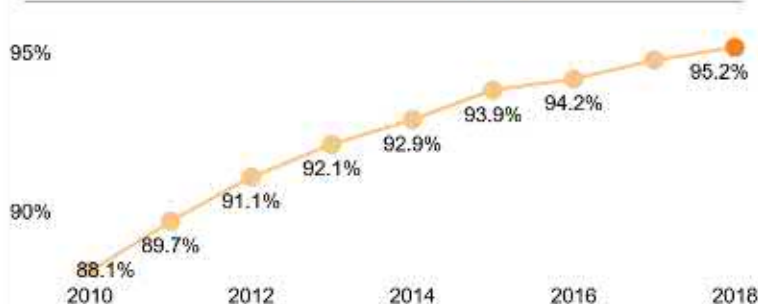


Consumer Mix

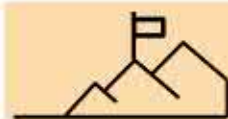
Commercial & Industrial Residential Agricultural Others



Access to Electricity

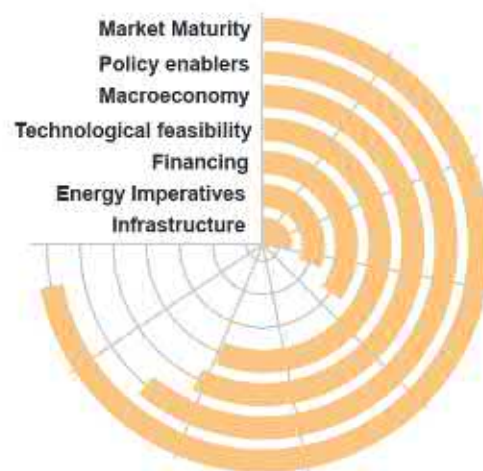


Ease of Doing Solar Classification

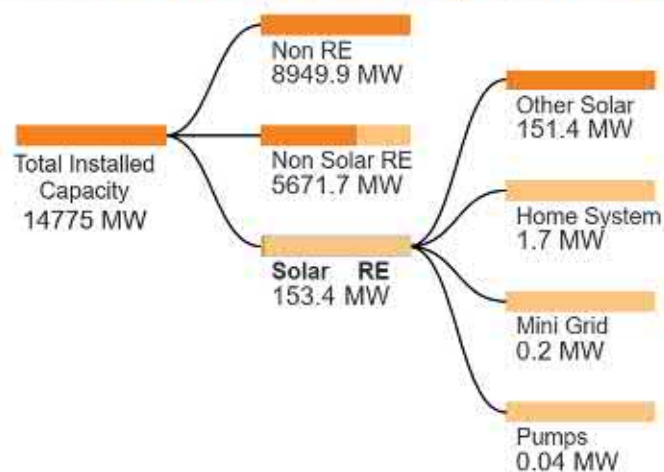


Influencer

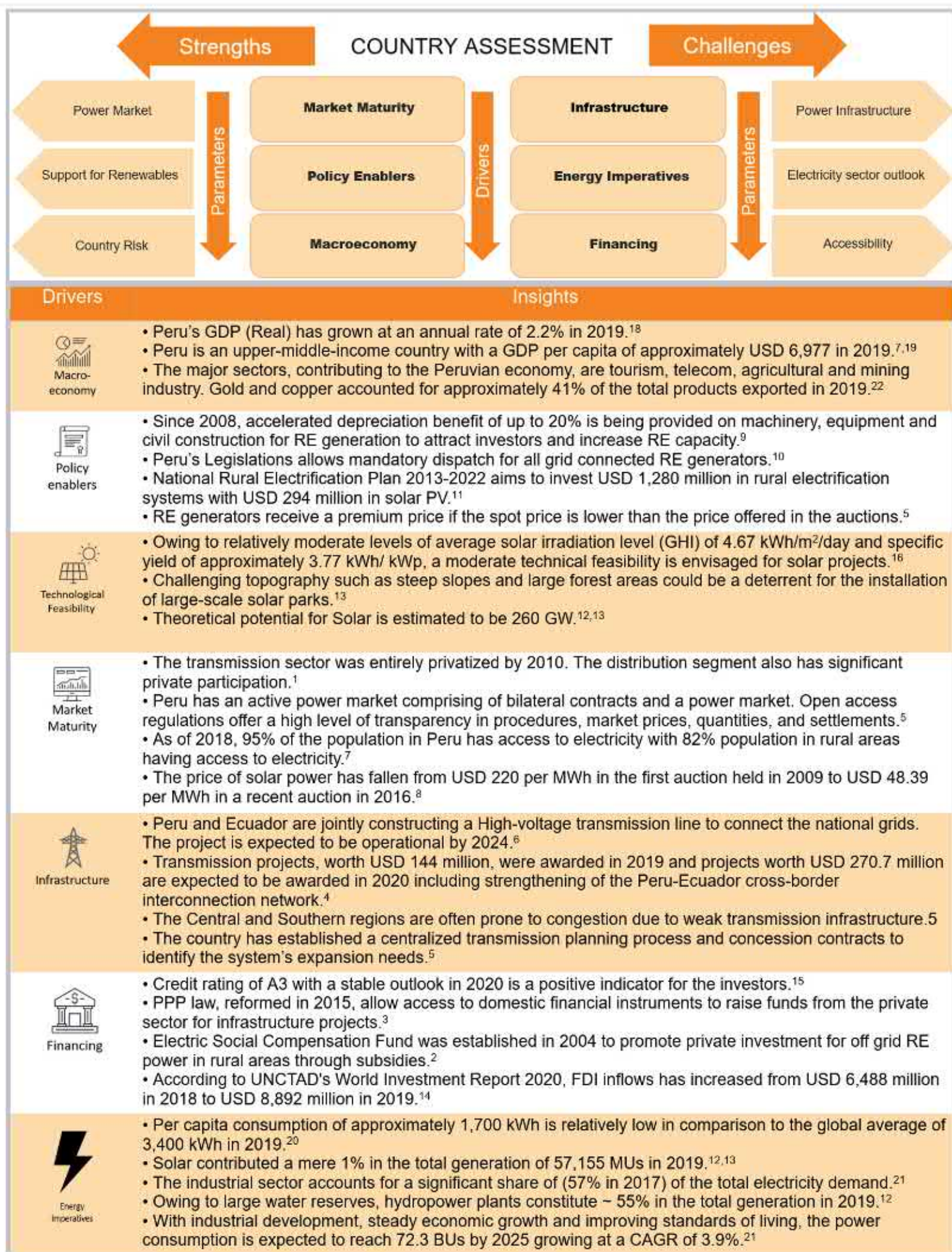
Performance against 7 Drivers



Installed Generation Capacity by Source



Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.





Electricity Consumption
in BU (2017)

⚡ 8.4

Share of Population with Access
to Electricity (2018)



World Bank's Ease of Doing
Business Score (2020)



Plurinational State of
Bolivia

Installed Solar Capacity in
MW (2019)



120.0

Installed Off-Grid Solar Capacity
in MW (2019)



4.9

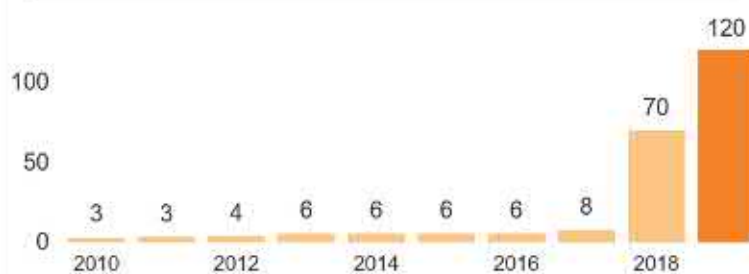
Solar installed capacity Growth rate
(CAGR) for 2015-19

📈 116%

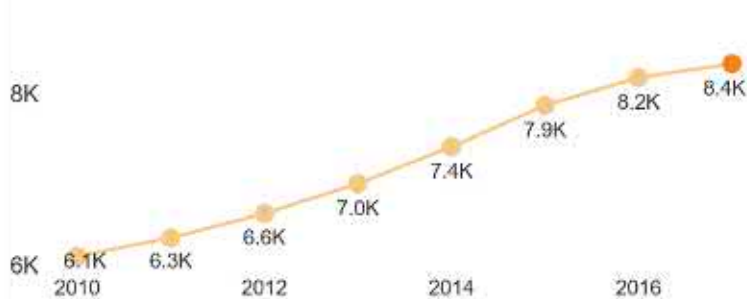
Latin America & Caribbean

Power Trends

Cumulative Solar installed Capacity (MW)

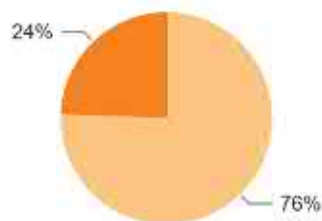


Overall Electricity Consumption (MU)

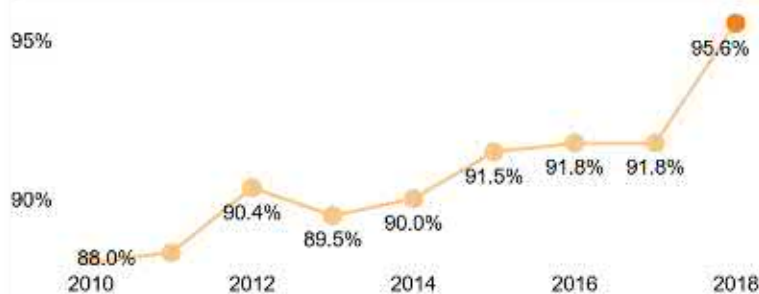


Consumer Mix

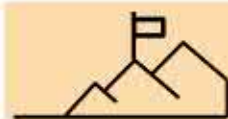
● Commercial & Industrial ● Residential ● Agricultural ● Others



Access to Electricity



Ease of Doing Solar Classification

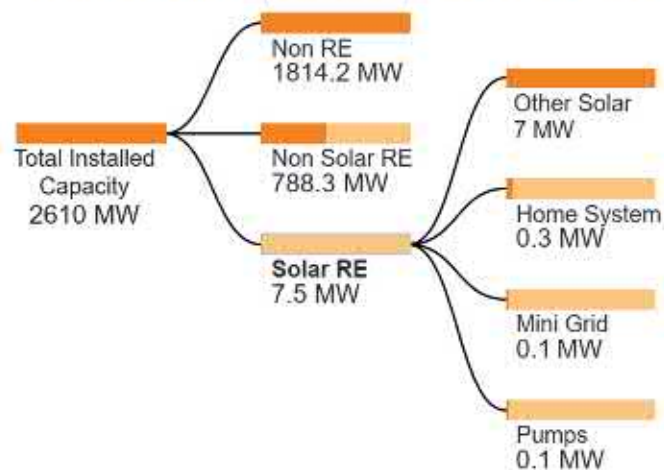


Influencer

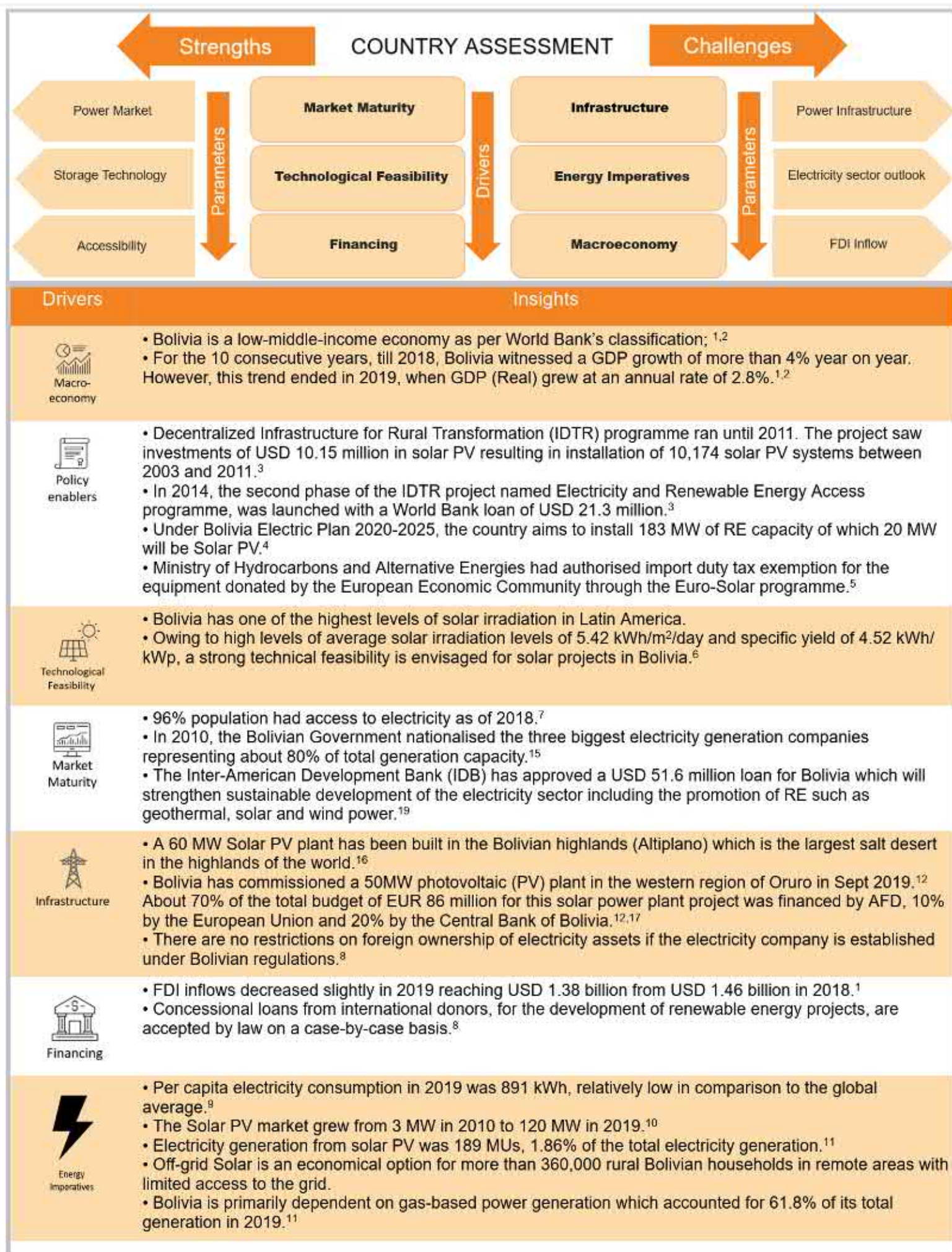
Performance against 7 Drivers

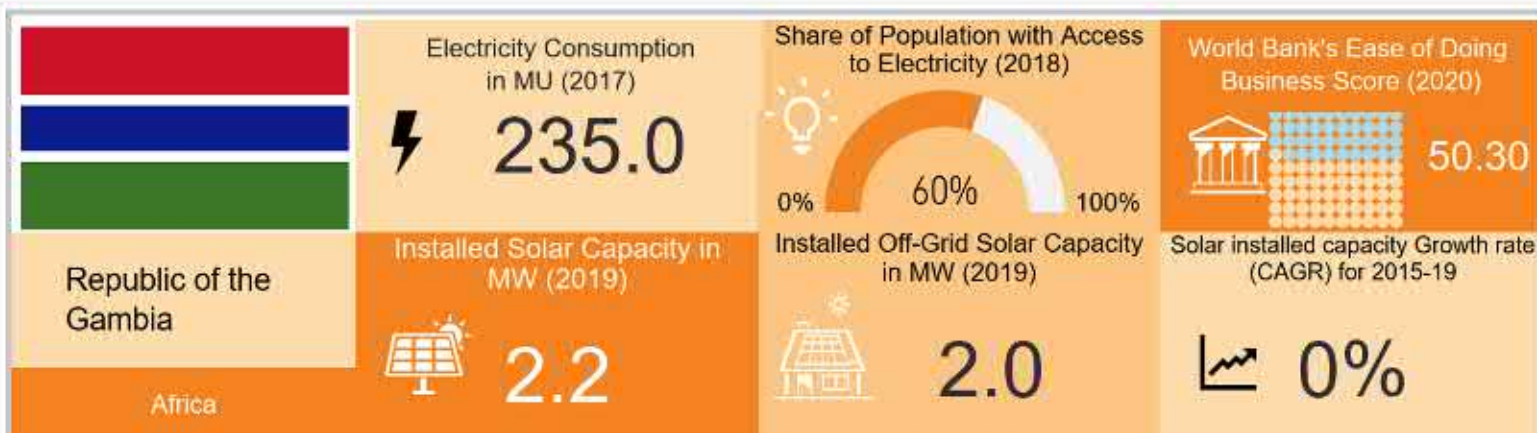


Installed Generation Capacity by Source



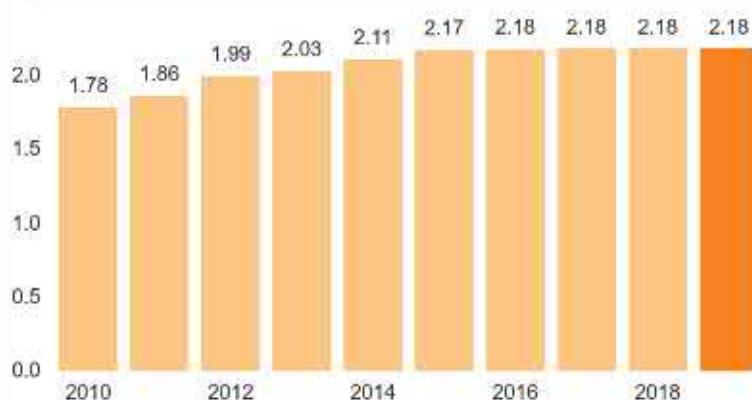
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
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Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



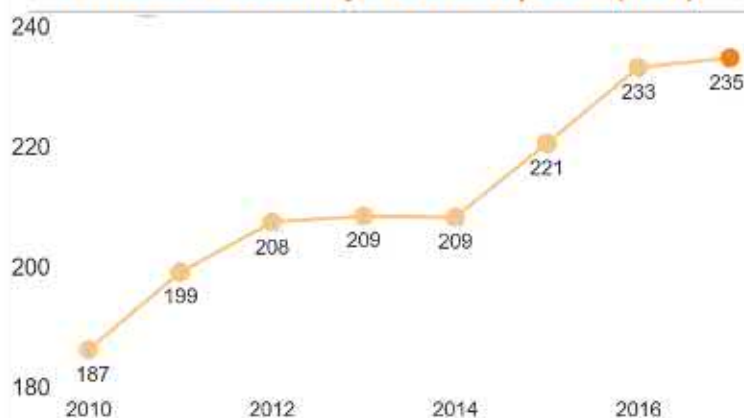


Power Trends

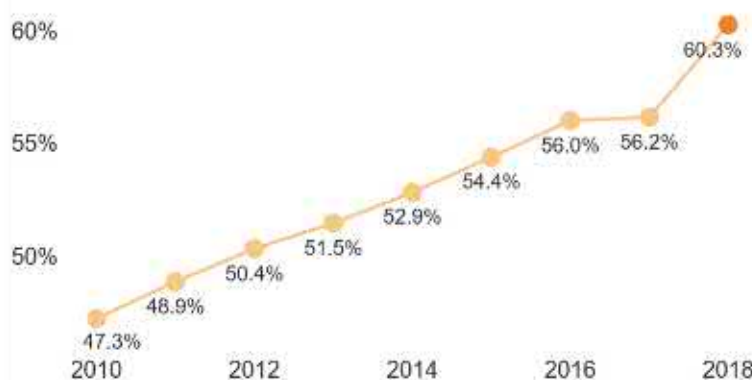
Cumulative Solar installed Capacity (MW)



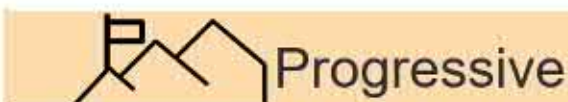
Overall Electricity Consumption (MU)



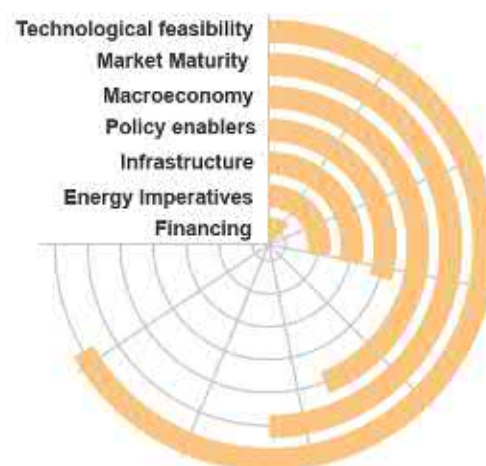
Access to Electricity



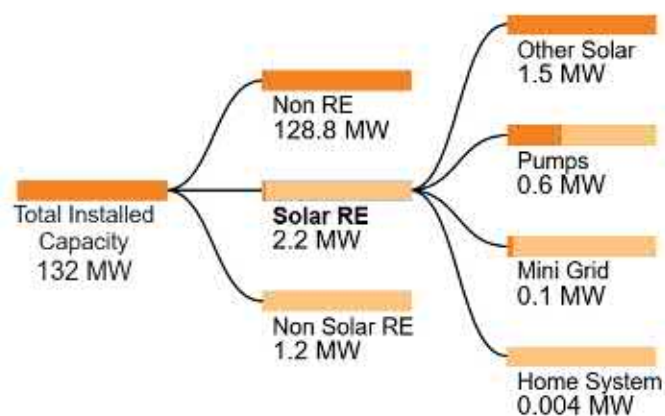
Ease of Doing Solar Classification



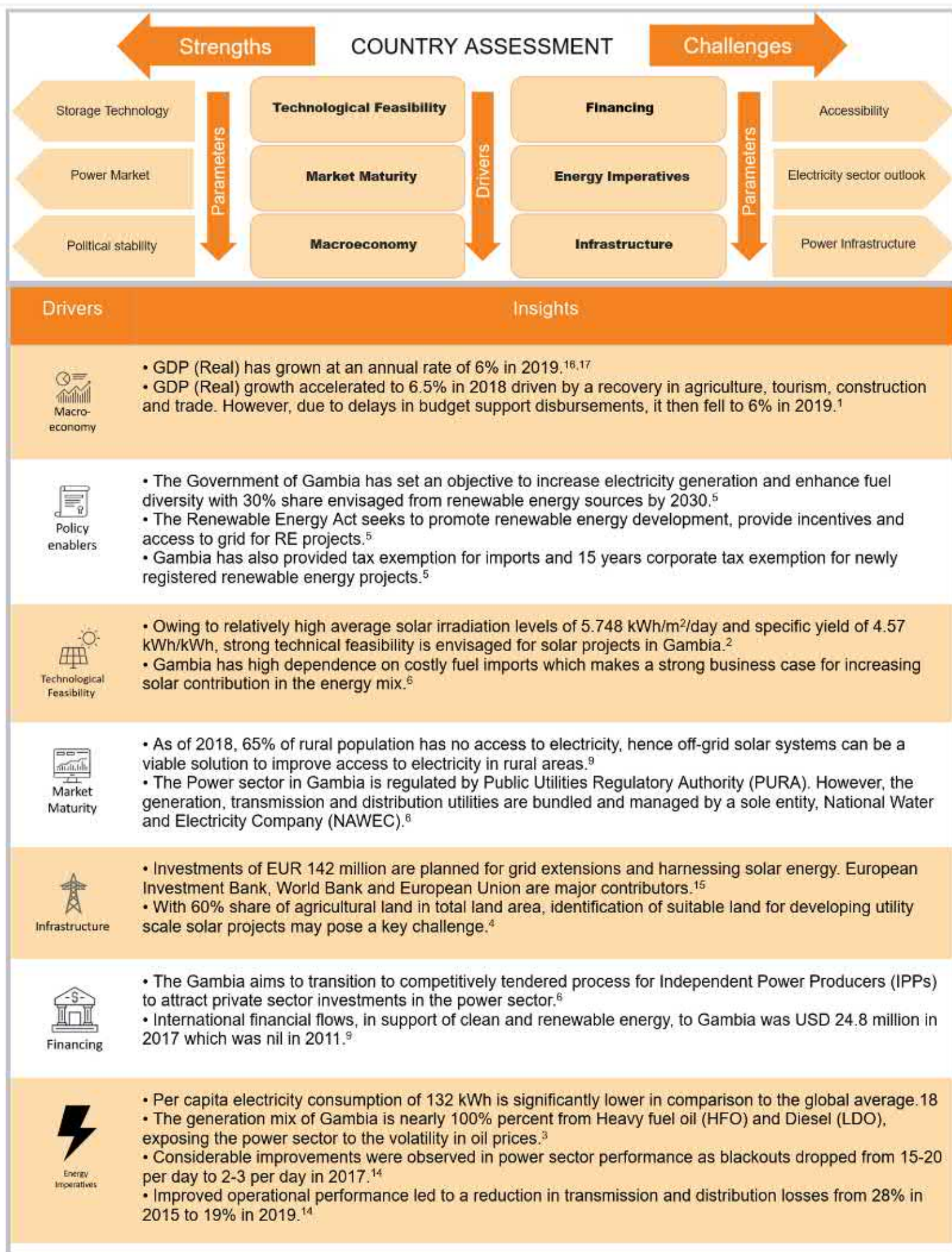
Performance against 7 Drivers



Installed Generation Capacity by Source



Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.





Rwanda

Africa

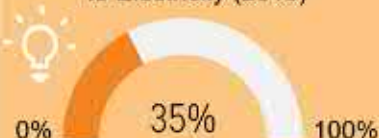
Electricity Consumption
in MU (2017)

595.9

Installed Solar Capacity in
MW (2019)

37.5

Share of Population with Access
to Electricity (2018)



Installed Off-Grid Solar Capacity
in MW (2019)

25.4

World Bank's Ease of Doing
Business Score (2020)

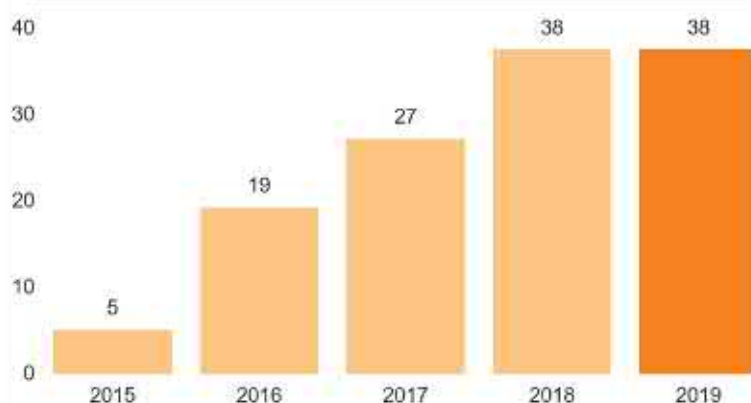
76.50

Solar installed capacity Growth rate
(CAGR) for 2015-19

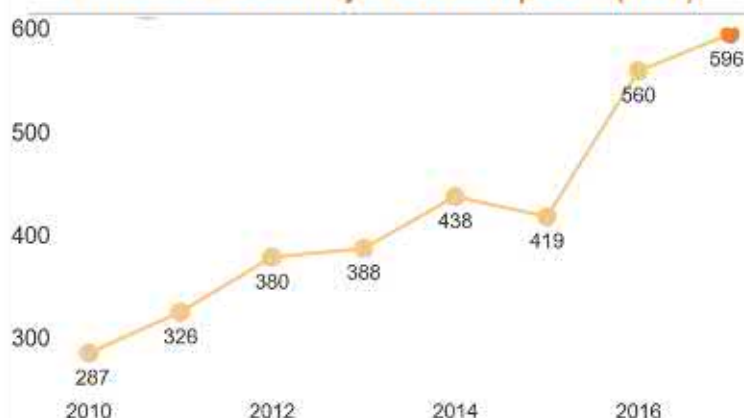
65%

Power Trends

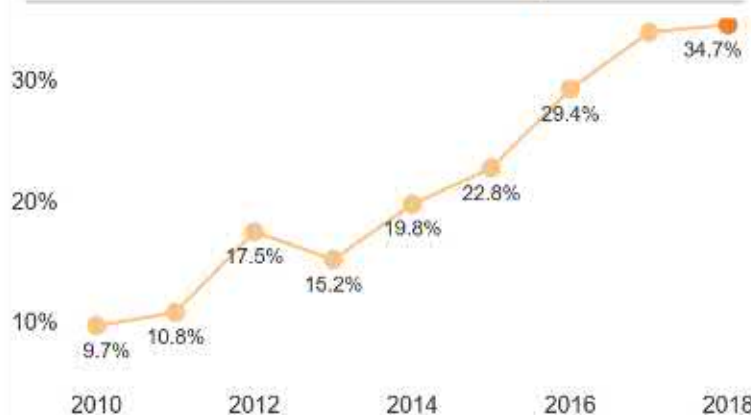
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

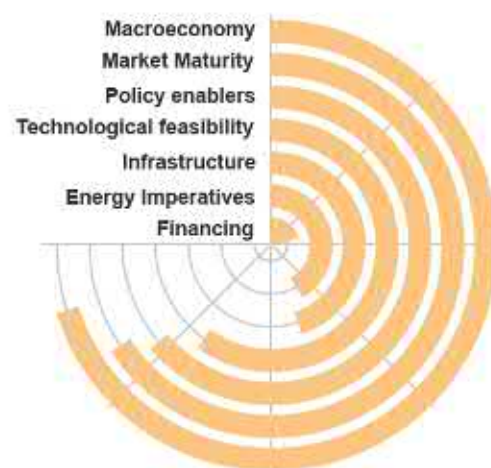


Ease of Doing Solar Classification

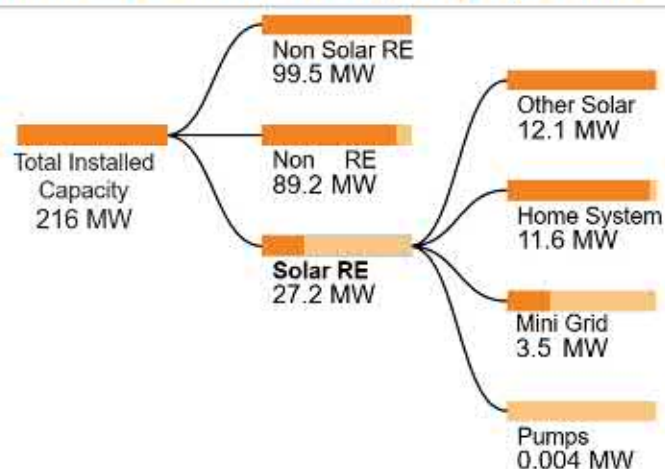


Influencer

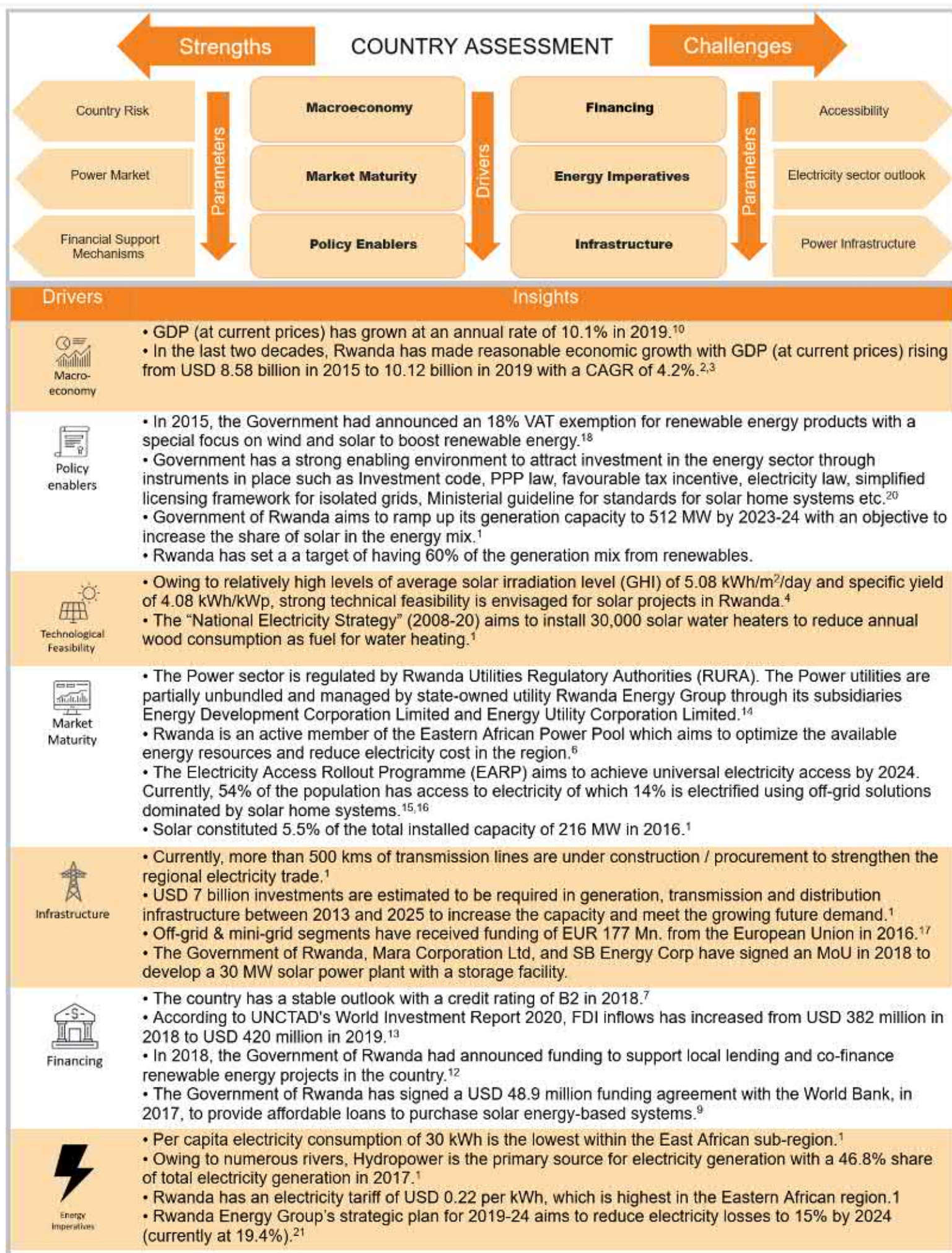
Performance against 7 Drivers

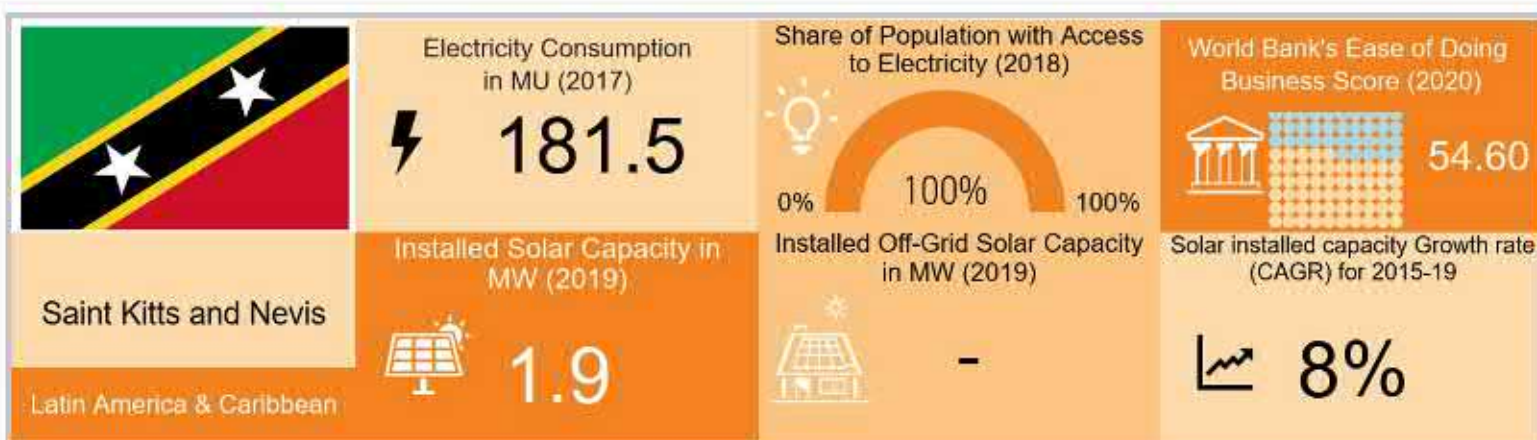


Installed Generation Capacity by Source



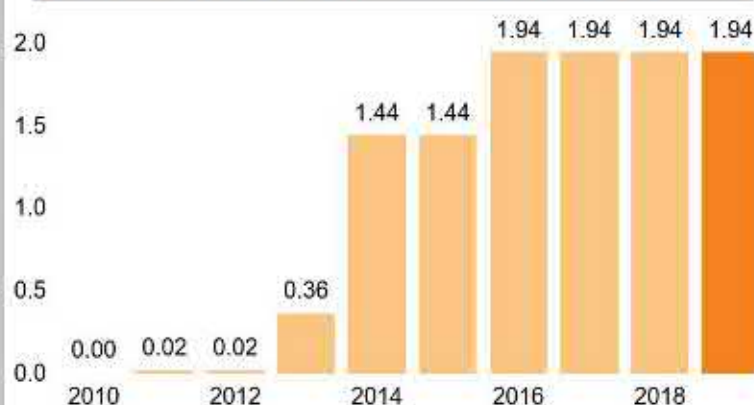
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
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Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



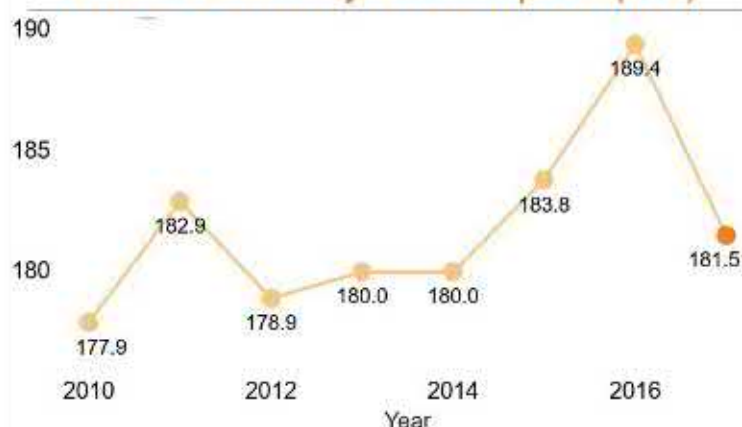


Power Trends

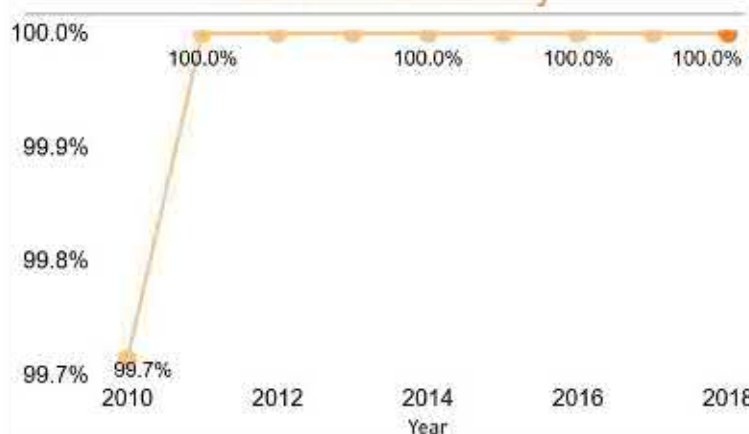
Cumulative Solar installed Capacity (MW)



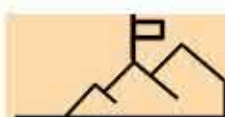
Overall Electricity Consumption (MU)



Access to Electricity

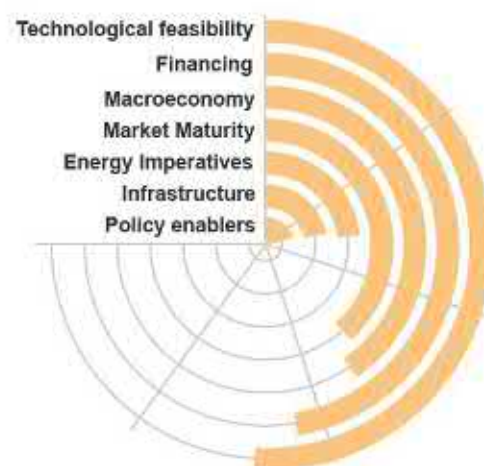


Ease of Doing Solar Classification



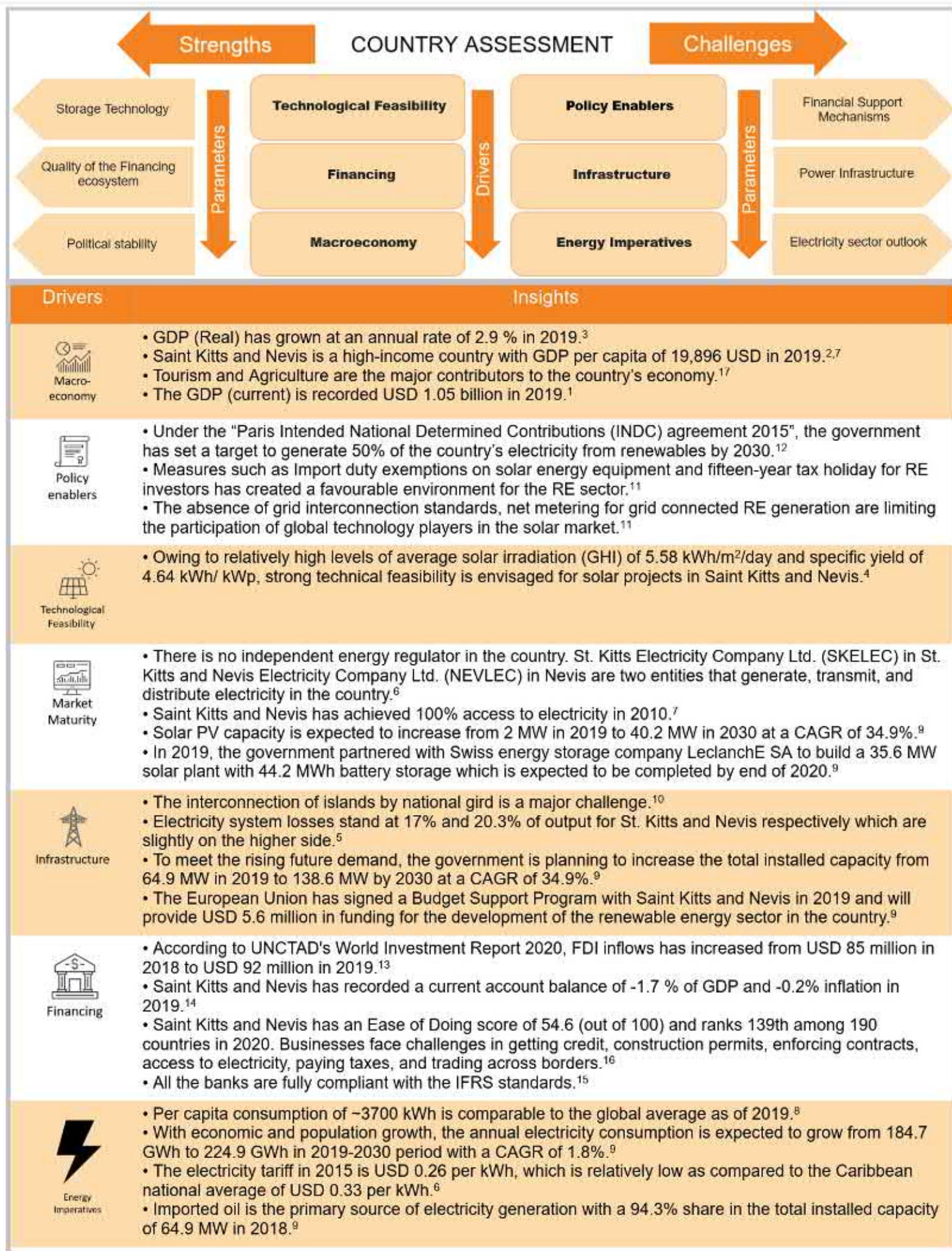
Influencer

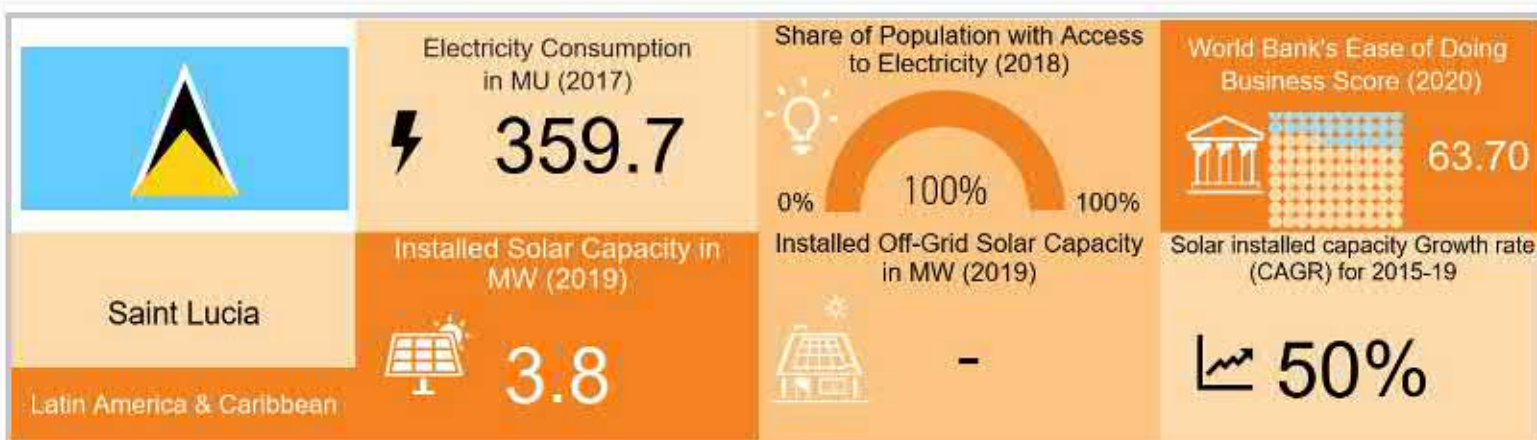
Performance against 7 Drivers



Sub-regional standing

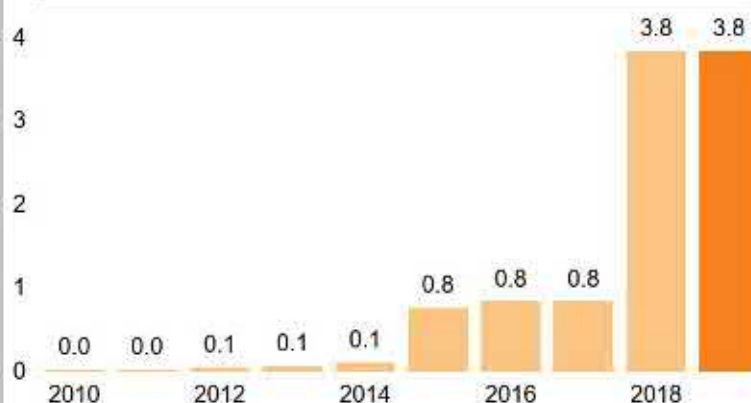




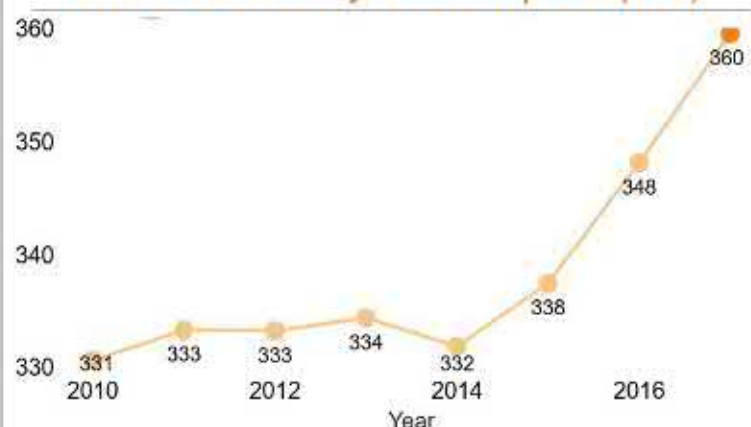


Power Trends

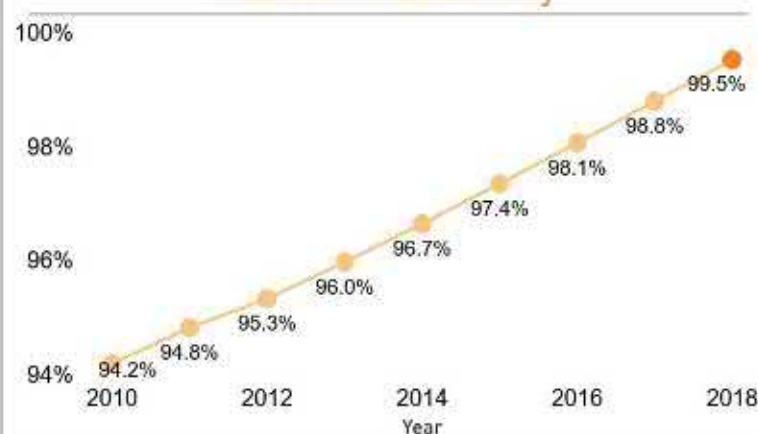
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



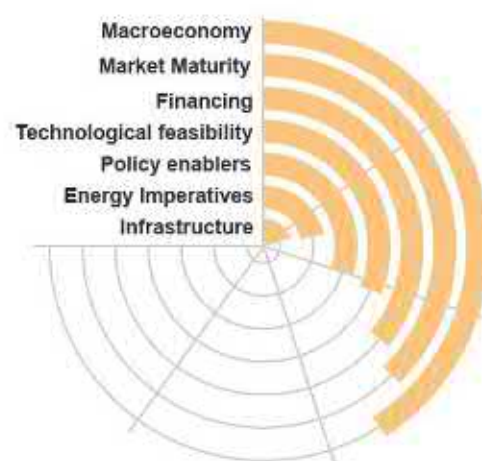
Access to Electricity



Ease of Doing Solar Classification

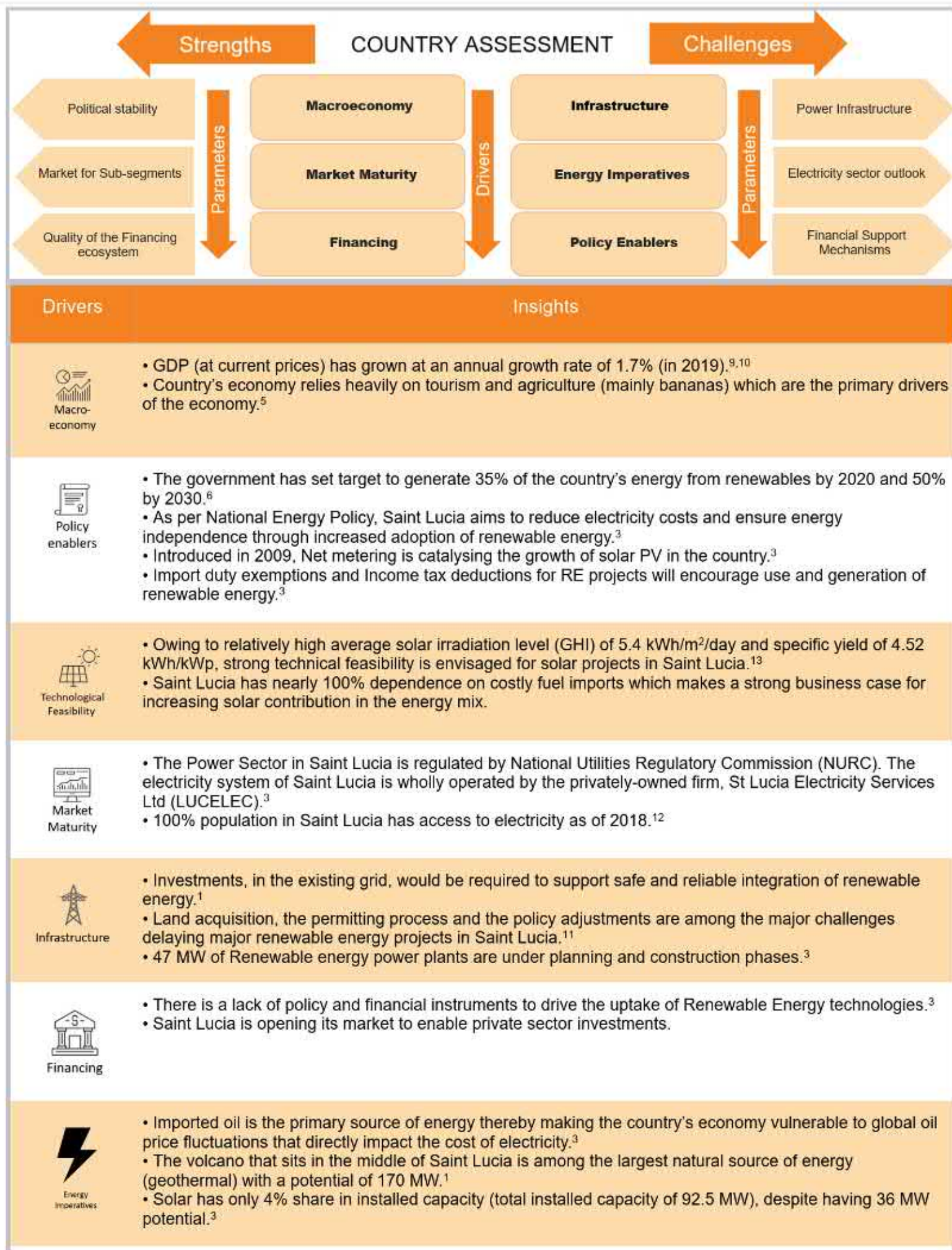


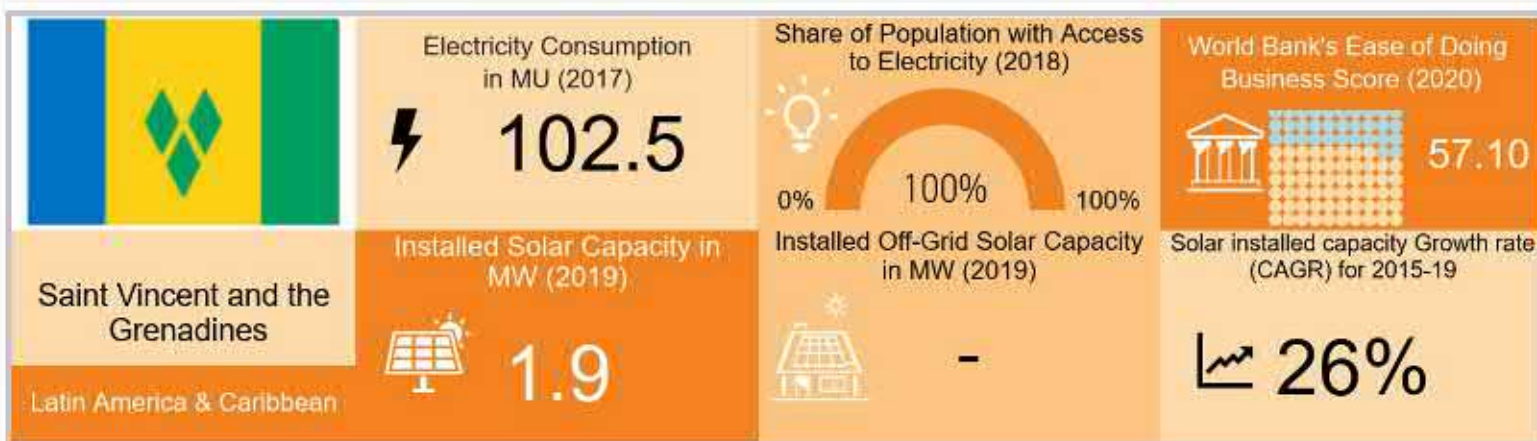
Performance against 7 Drivers



Sub-regional standing

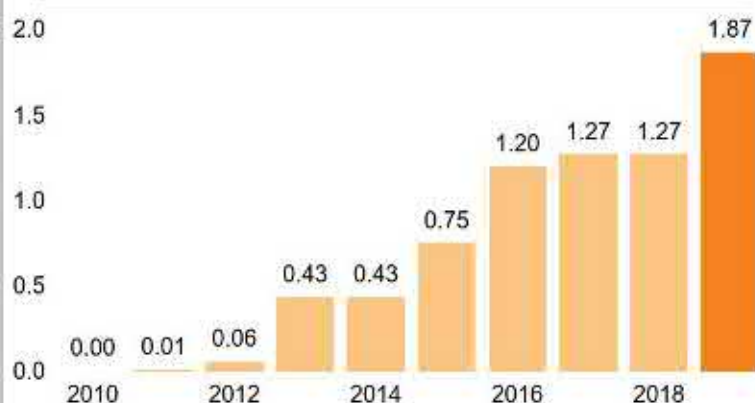




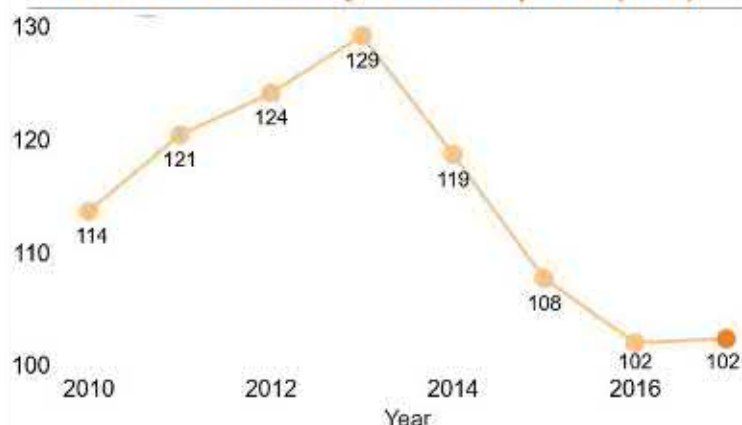


Power Trends

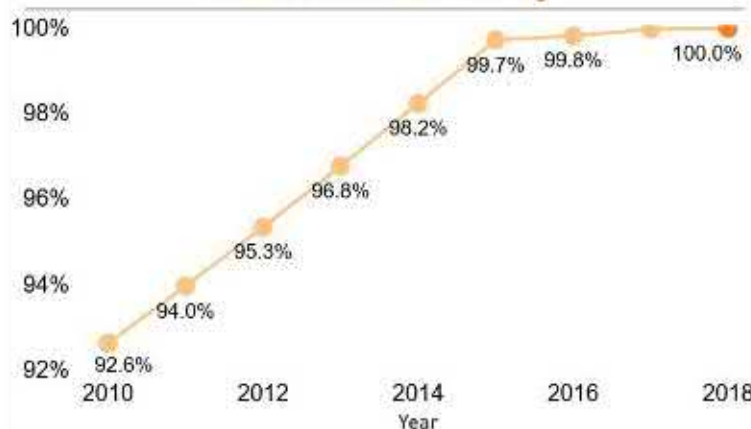
Cumulative Solar installed Capacity (MW)



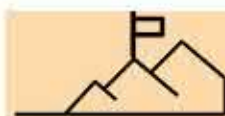
Overall Electricity Consumption (MU)



Access to Electricity

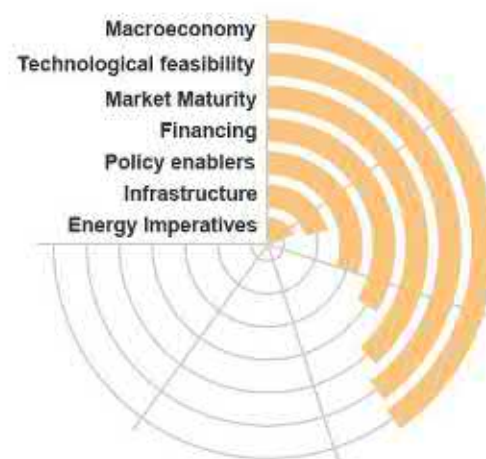


Ease of Doing Solar Classification



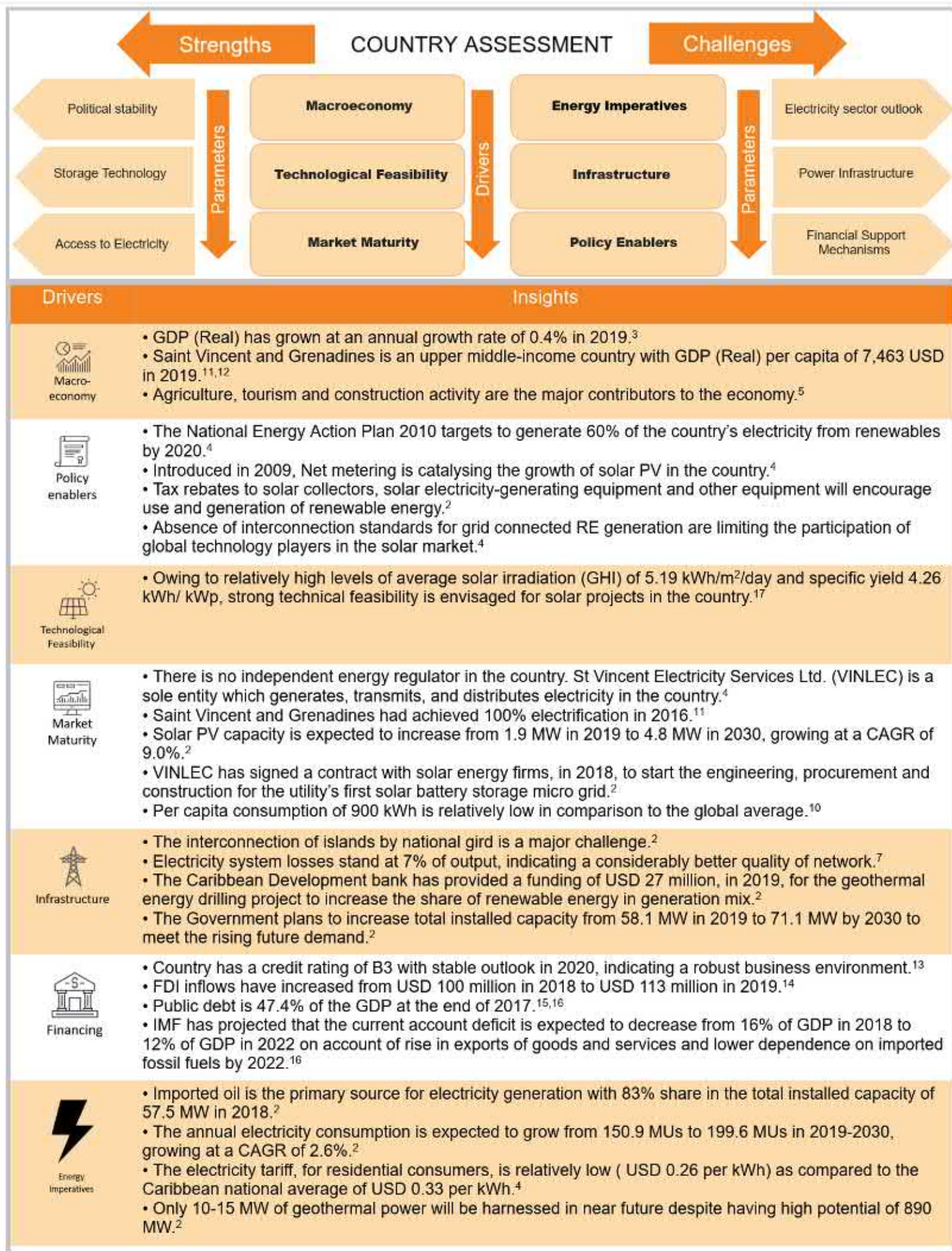
Influencer

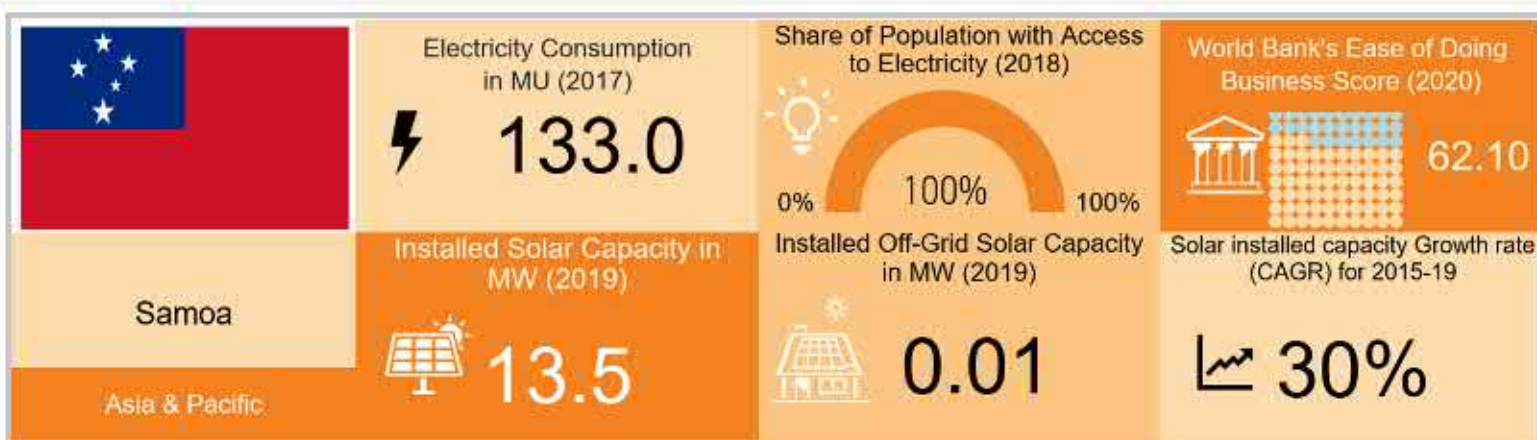
Performance against 7 Drivers



Sub-regional standing

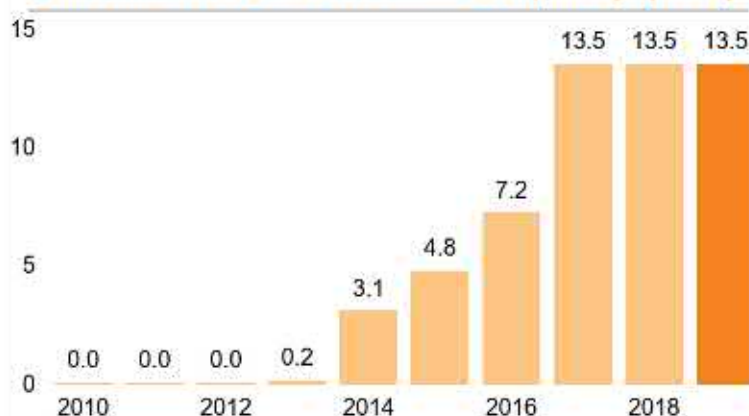




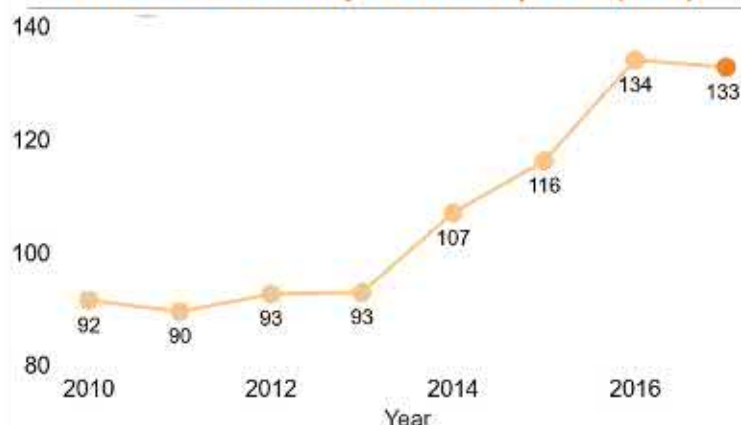


Power Trends

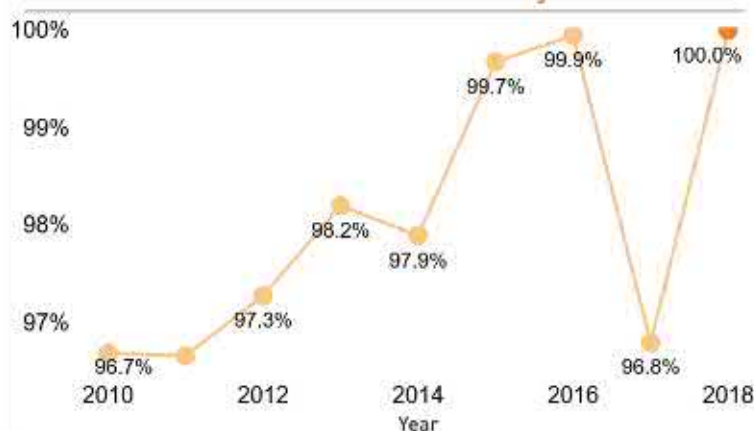
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



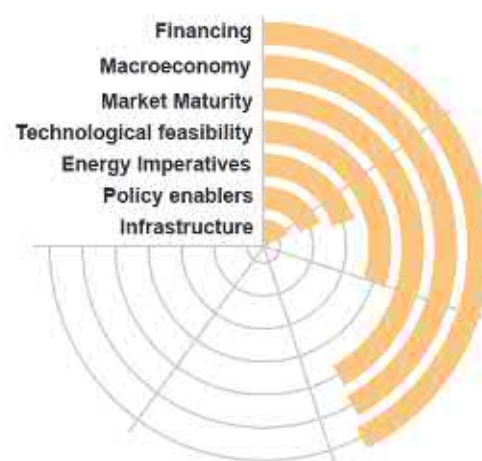
Access to Electricity



Ease of Doing Solar Classification

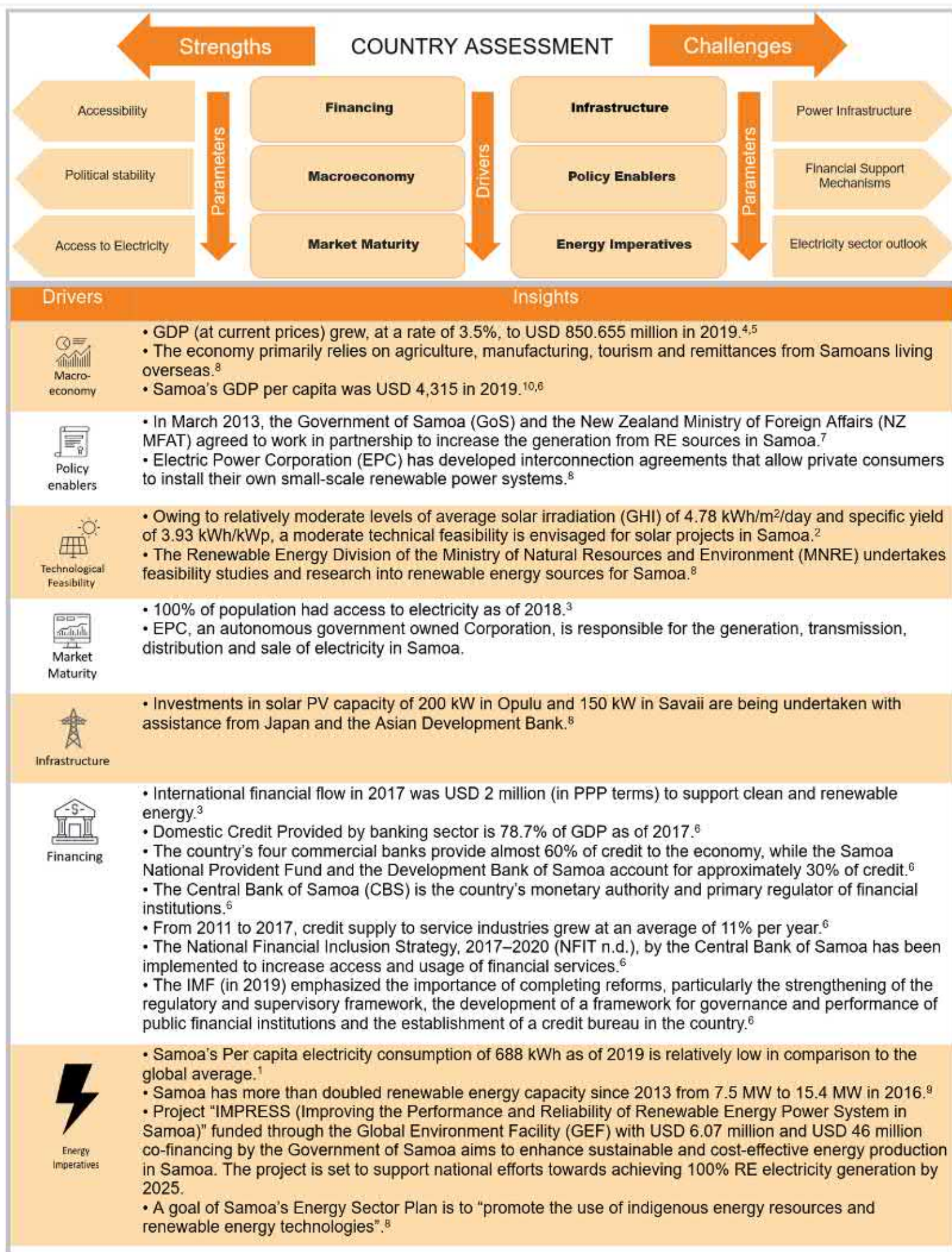


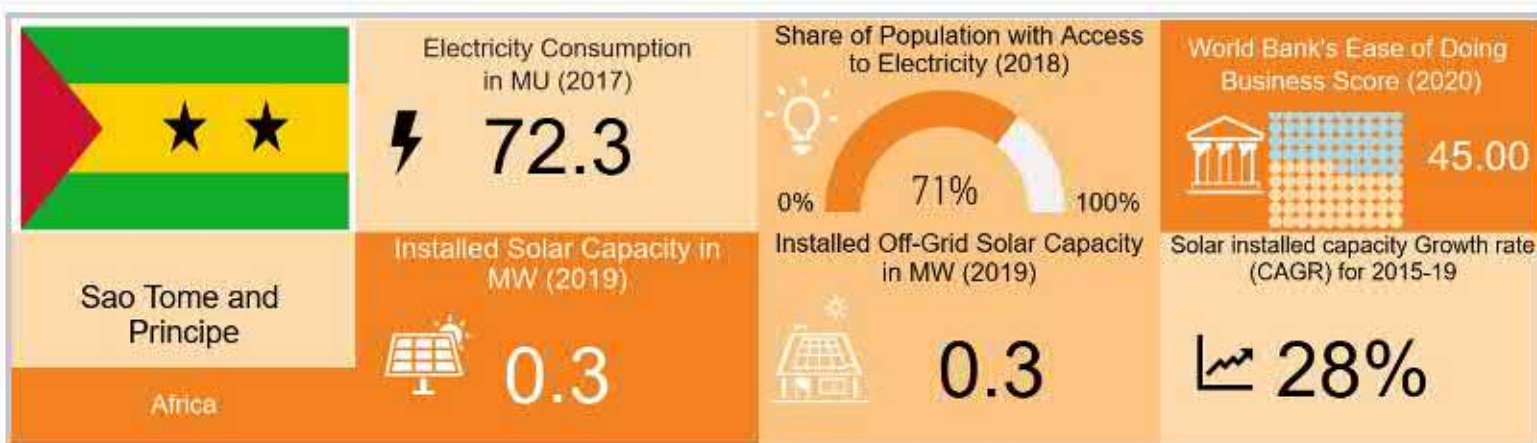
Performance against 7 Drivers



Sub-regional standing

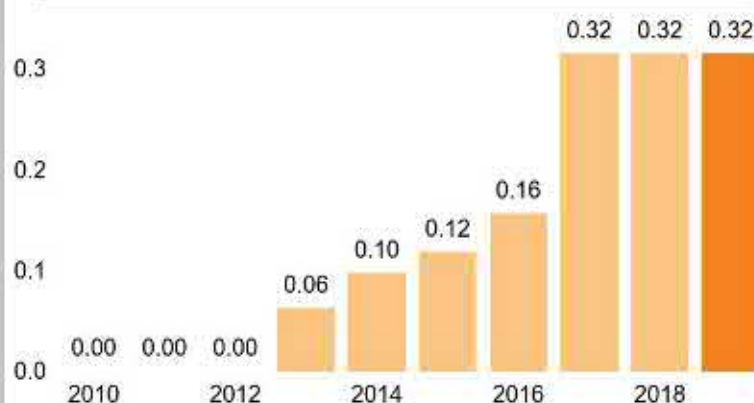




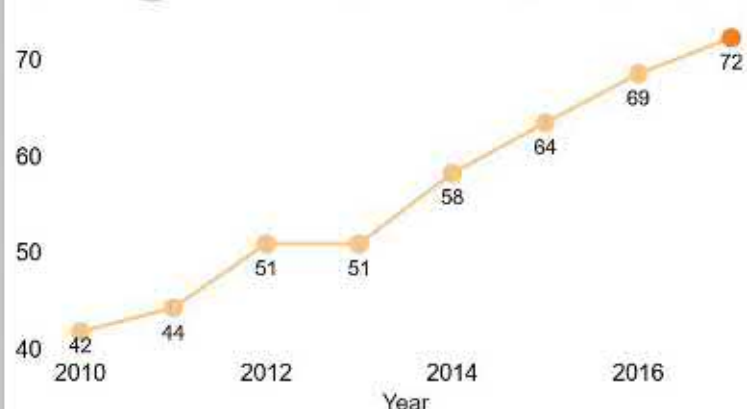


Power Trends

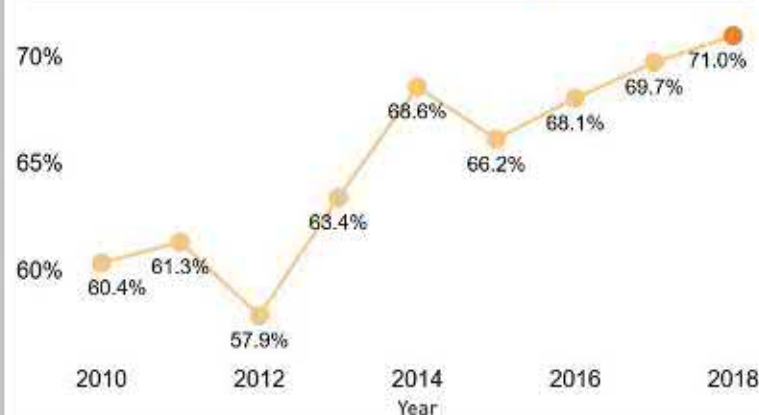
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

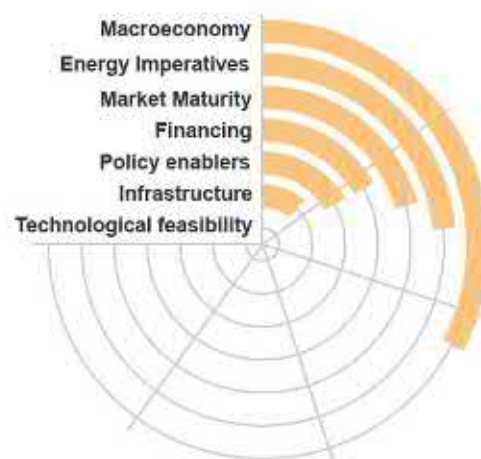


Ease of Doing Solar Classification



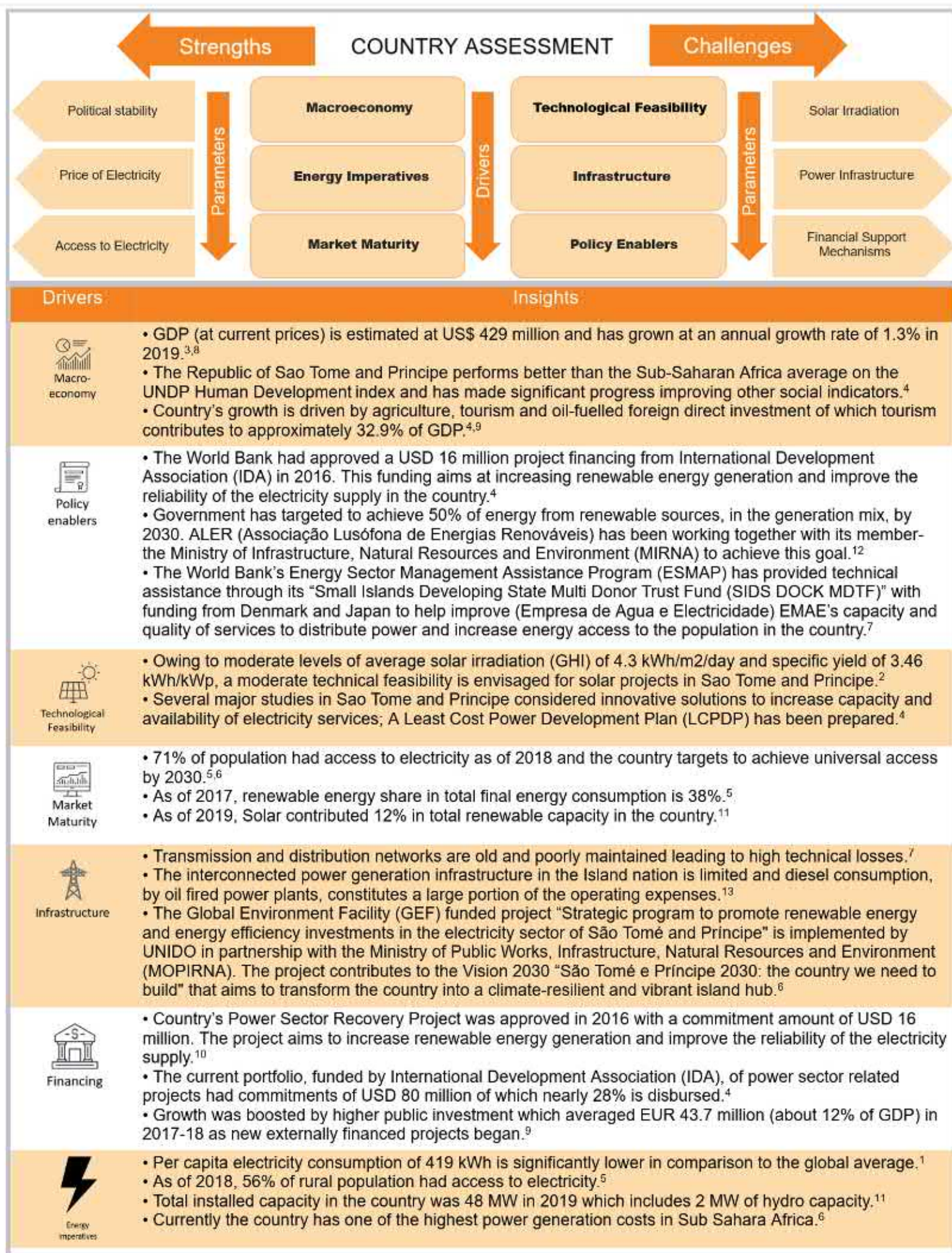
Potential

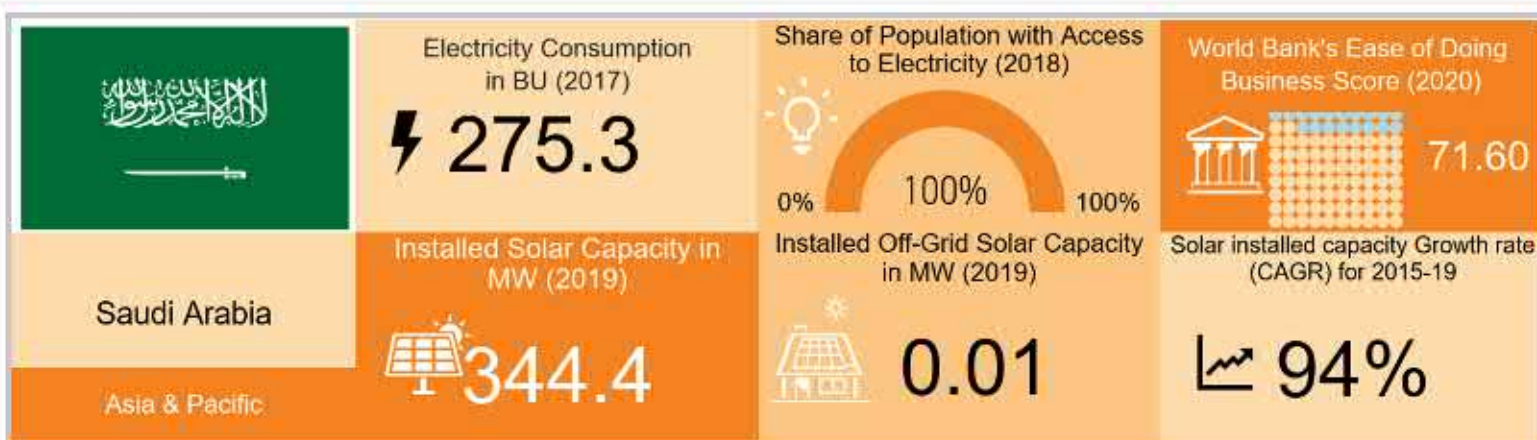
Performance against 7 Drivers



Sub-regional standing

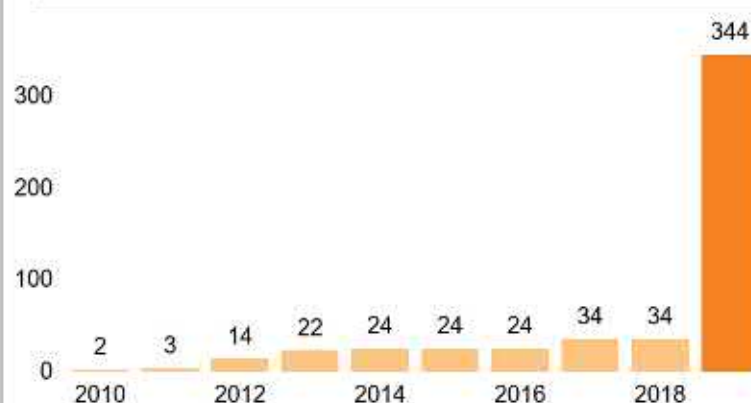






Power Trends

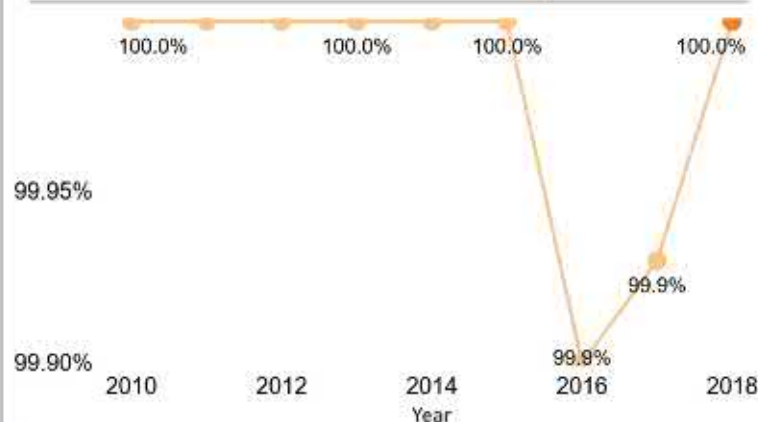
Cumulative Solar installed Capacity (MW)



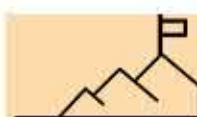
Overall Electricity Consumption (MU)



Access to Electricity

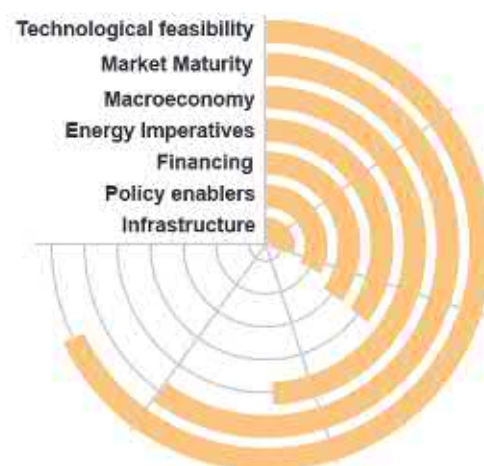


Ease of Doing Solar Classification



Achiever

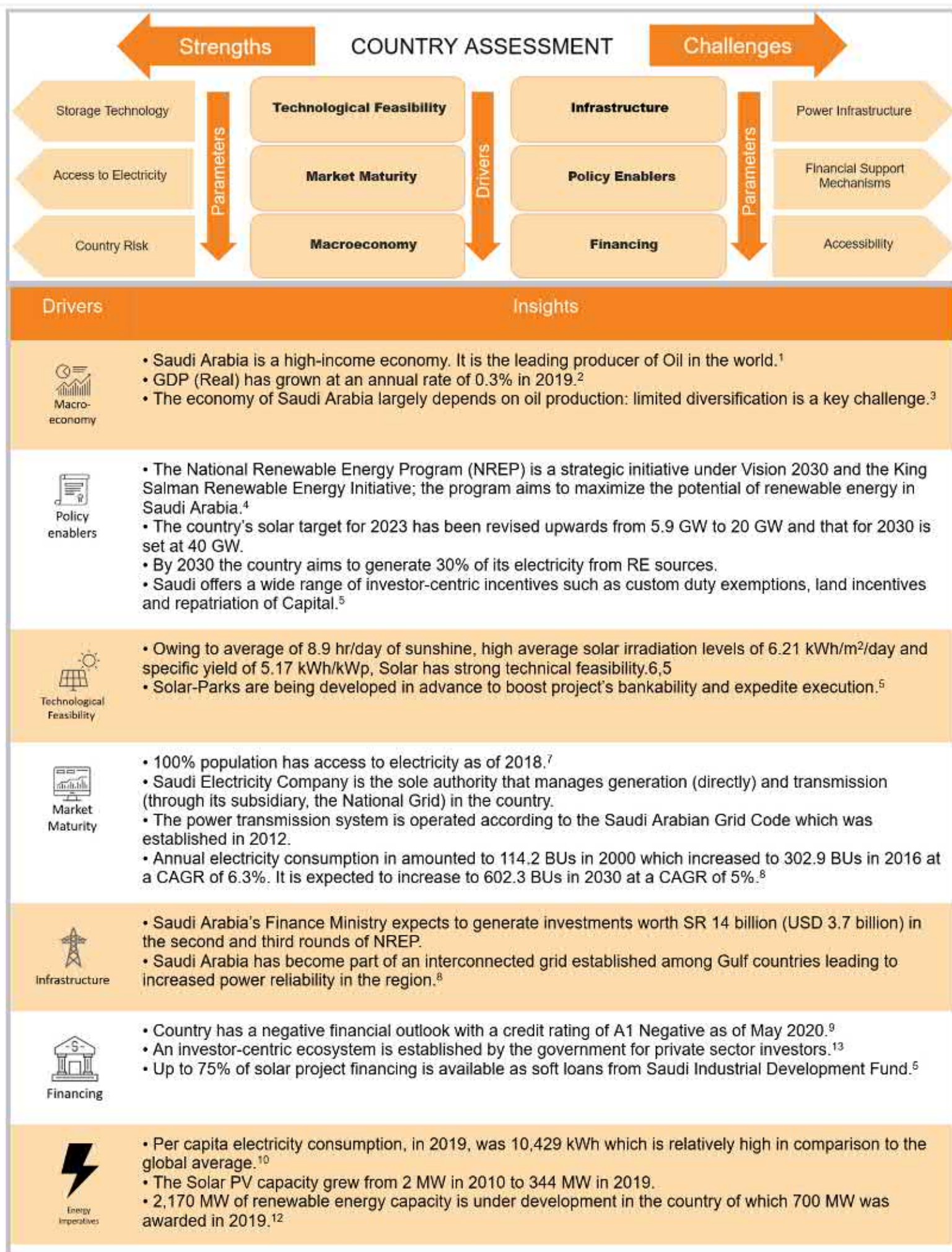
Performance against 7 Drivers

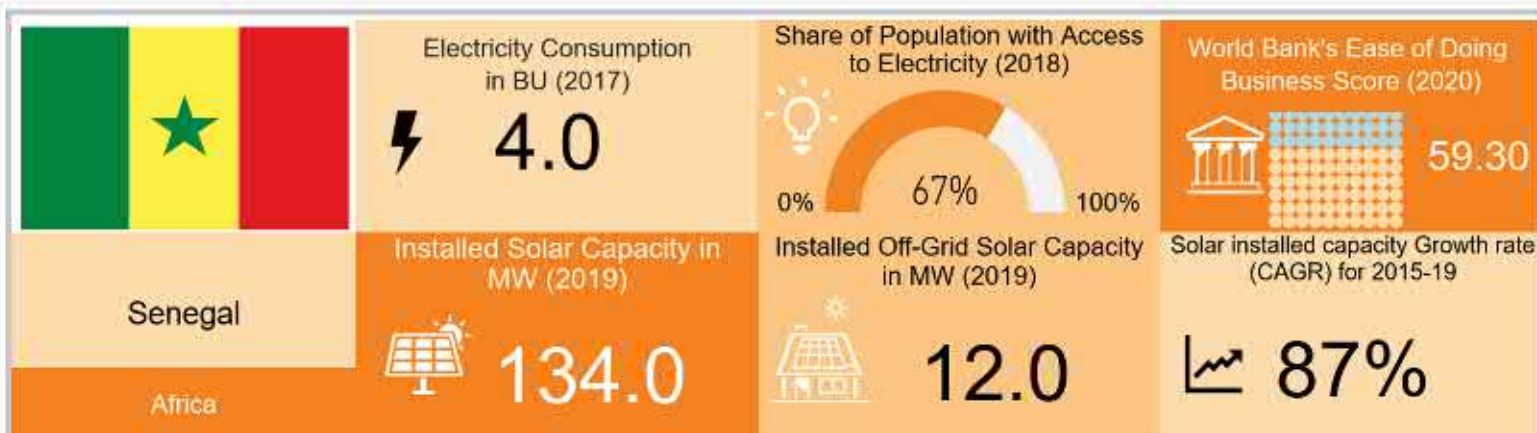


Sub-regional standing



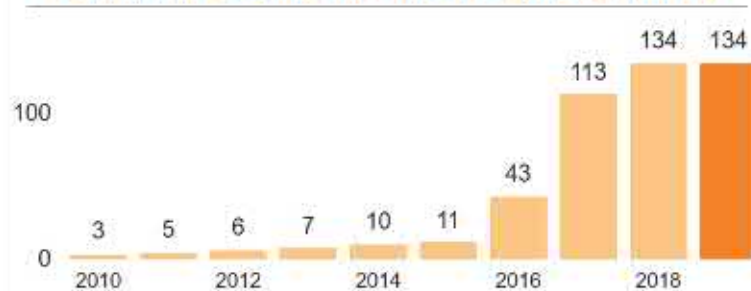
Legend: Neutral (Yellow), Beginner (Orange), Progressive (Red), Influencer (Dark Red)



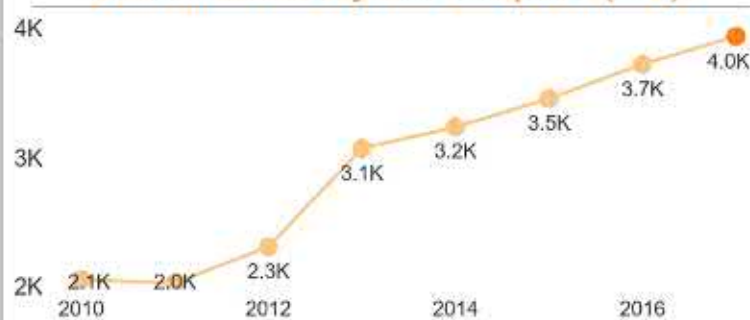


Power Trends

Cumulative Solar installed Capacity (MW)

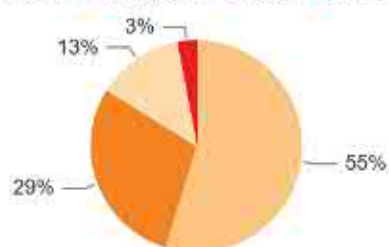


Overall Electricity Consumption (MU)



Consumer Mix

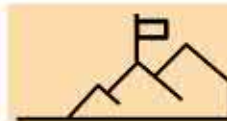
Commercial & Industrial Residential Others Agricultural



Access to Electricity

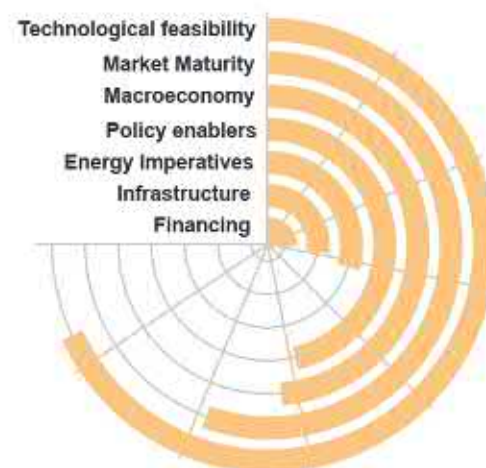


Ease of Doing Solar Classification

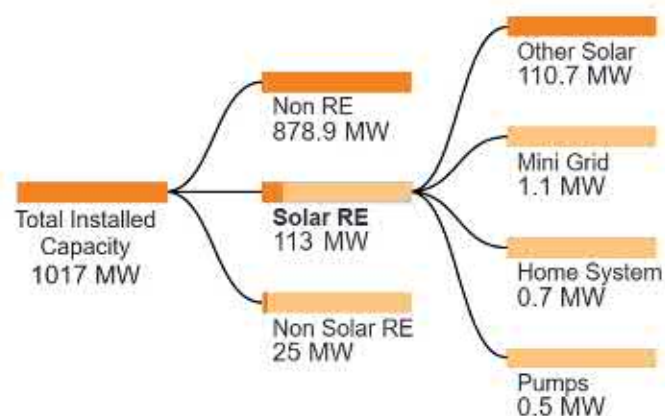


Influencer

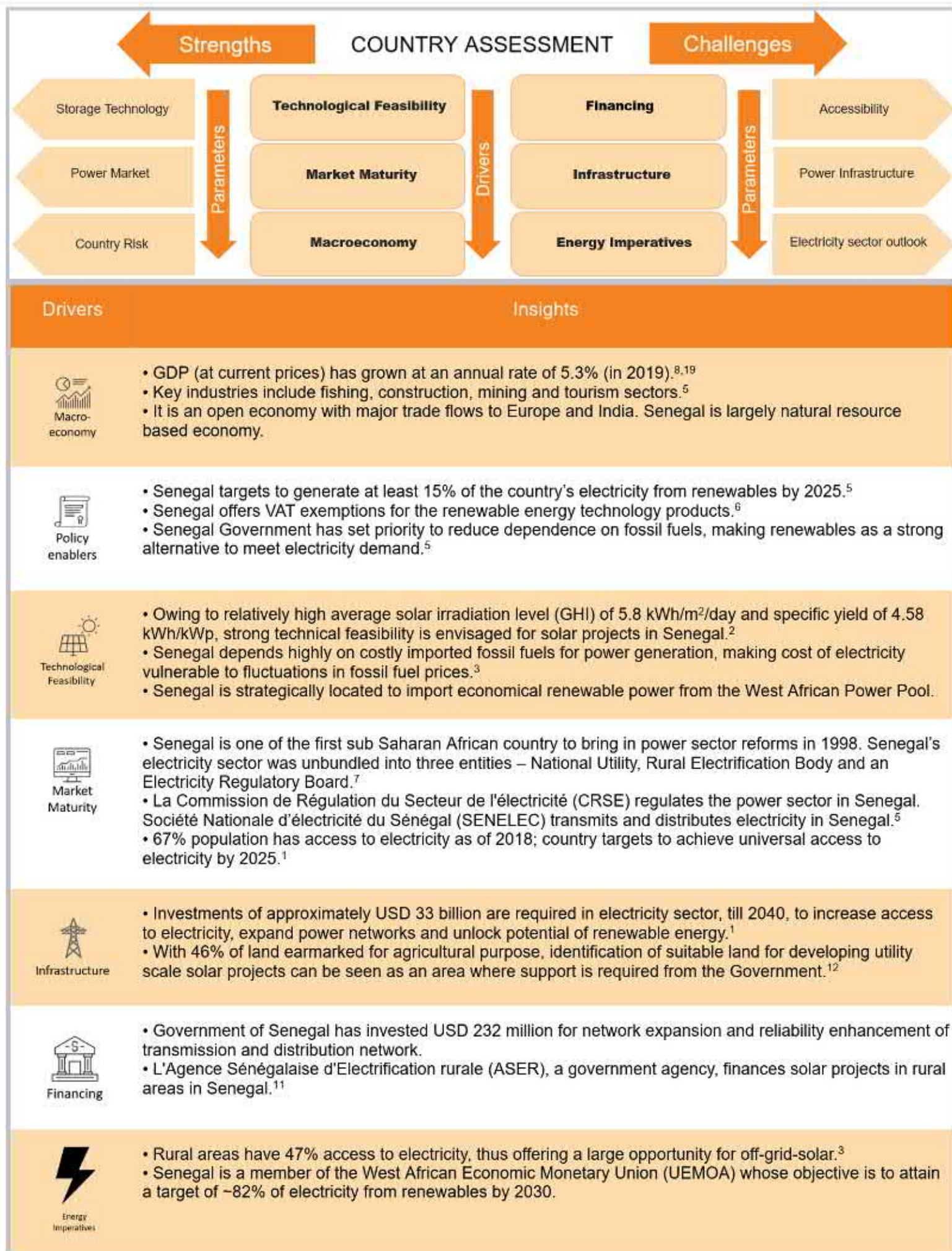
Performance against 7 Drivers

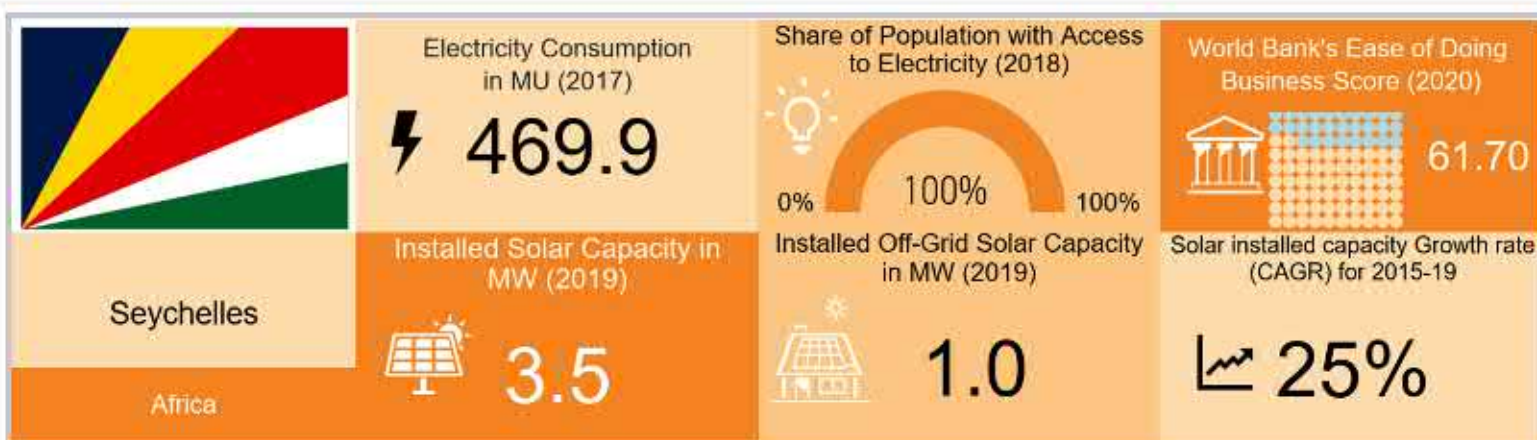


Installed Generation Capacity by Source



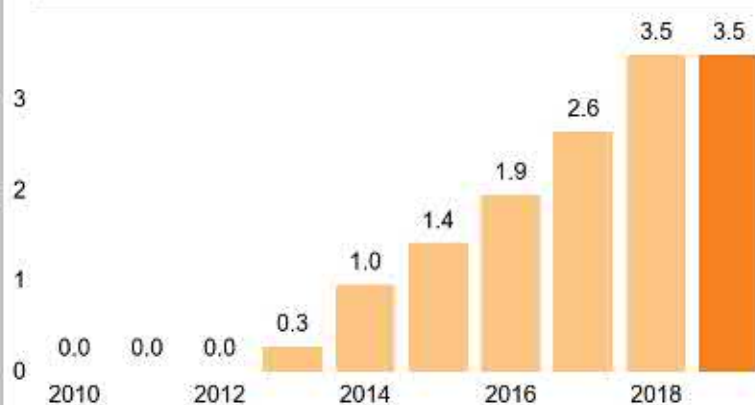
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



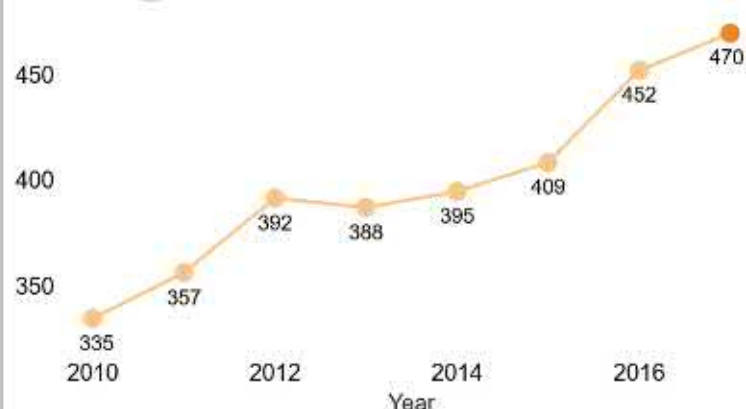


Power Trends

Cumulative Solar installed Capacity (MW)



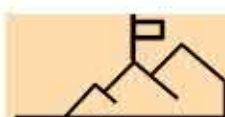
Overall Electricity Consumption (MU)



Access to Electricity



Ease of Doing Solar Classification



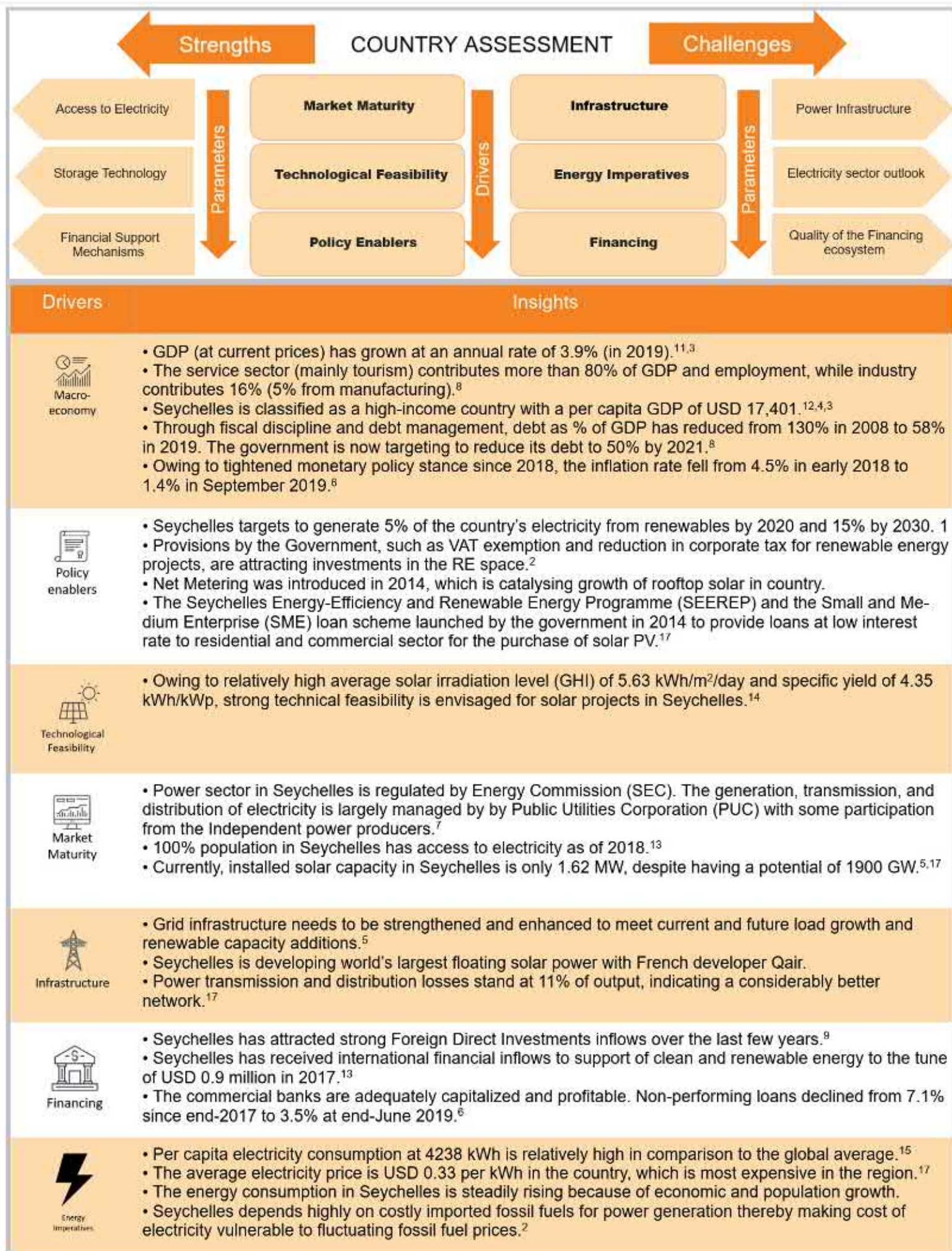
Influencer

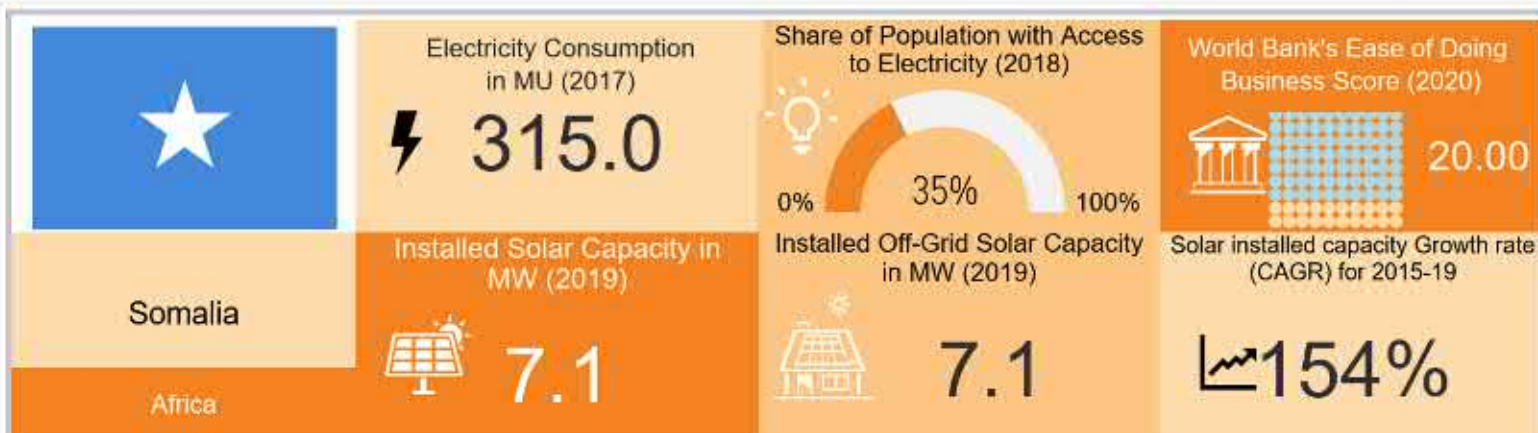
Performance against 7 Drivers



Sub-regional standing

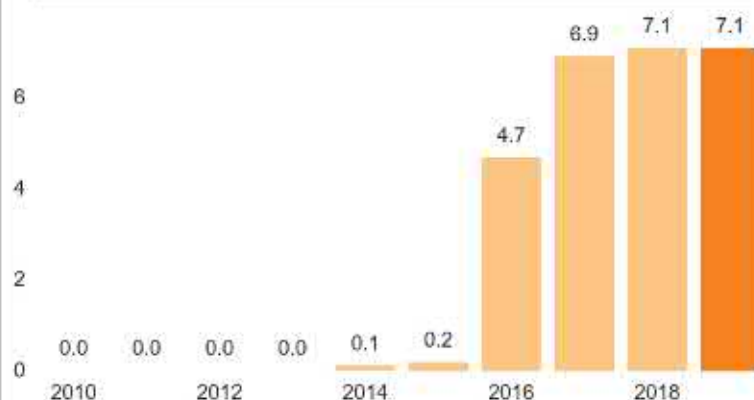




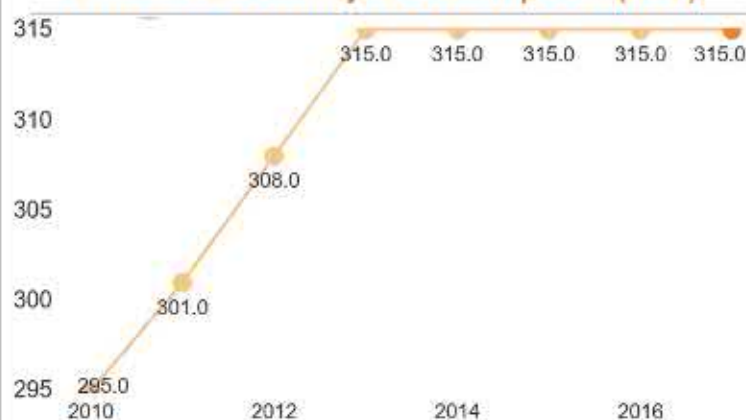


Power Trends

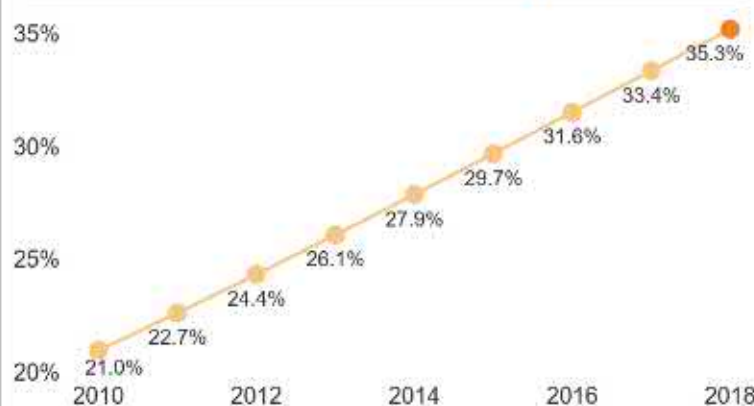
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

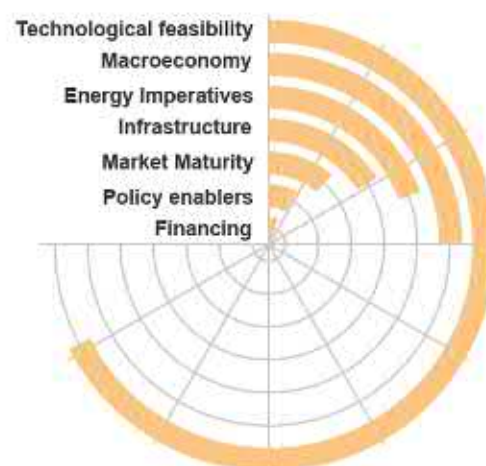


Ease of Doing Solar Classification

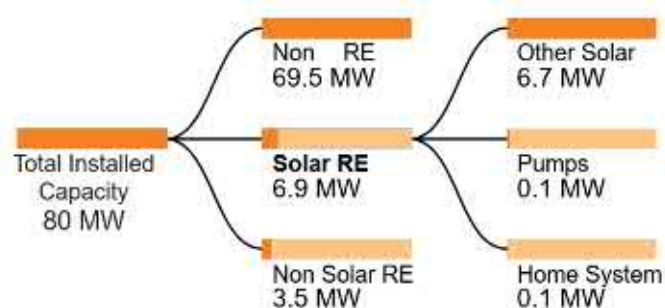


Potential

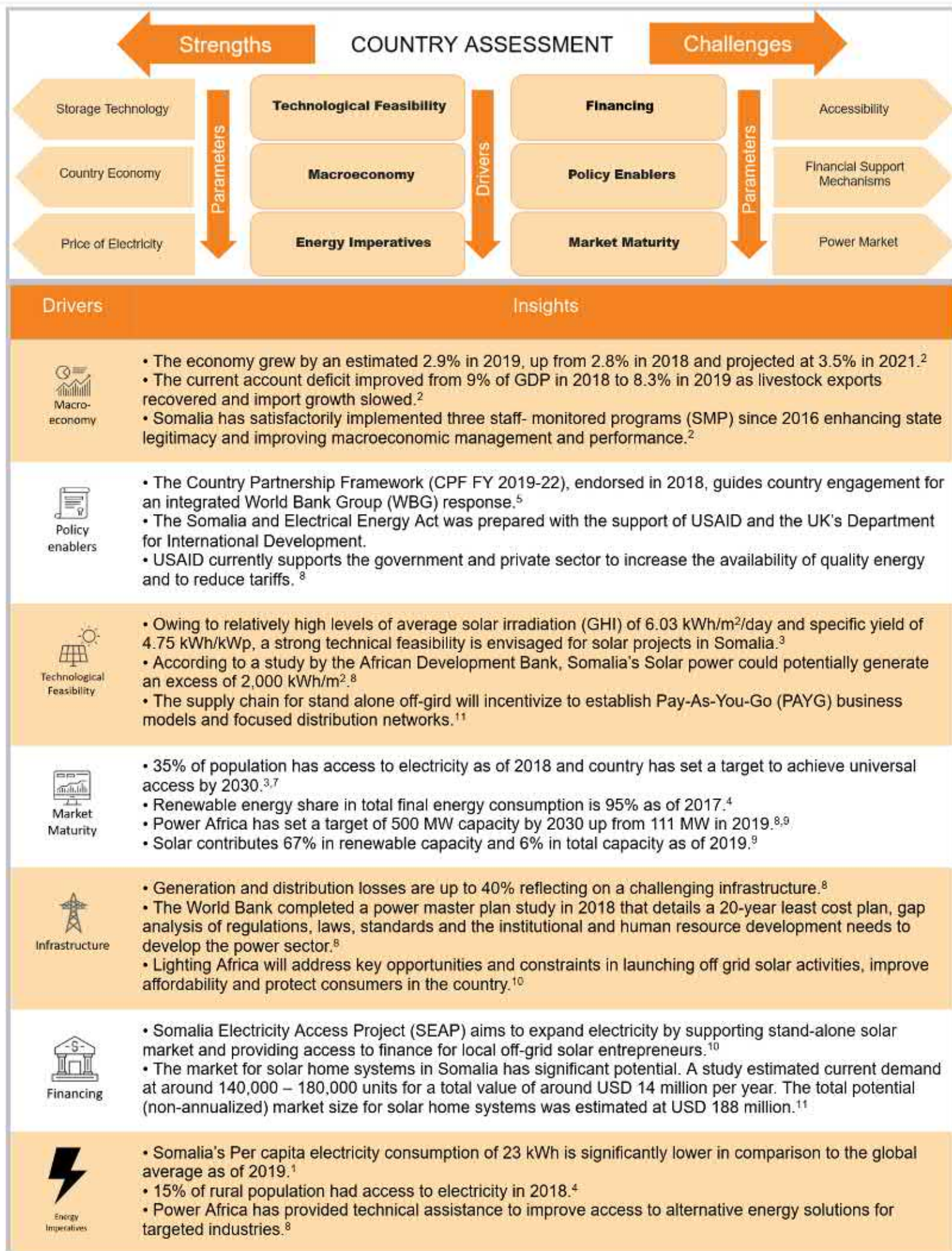
Performance against 7 Drivers



Installed Generation Capacity by Source



Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.





South Sudan

Africa

Electricity Consumption
in MU (2017)

⚡ 498.0

Installed Solar Capacity in
MW (2019)

☀️ 0.7

Share of Population with Access
to Electricity (2018)



Installed Off-Grid Solar Capacity
in MW (2019)

☀️ 0.7

World Bank's Ease of Doing
Business Score (2020)

🏛️ 34.60

Solar installed capacity Growth rate
(CAGR) for 2015-19

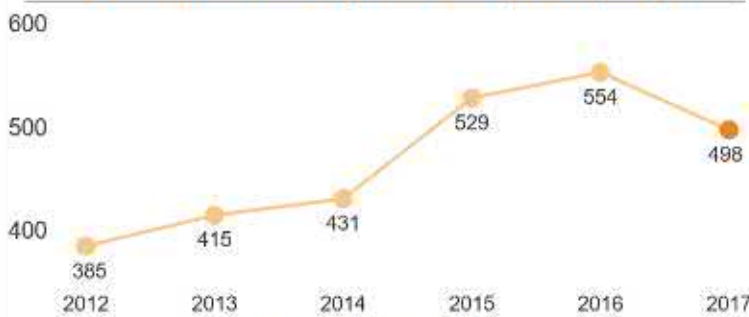
📈 42%

Power Trends

Cumulative Solar installed Capacity (MW)

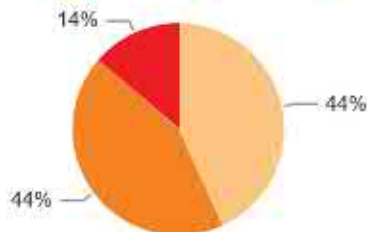


Overall Electricity Consumption (MU)

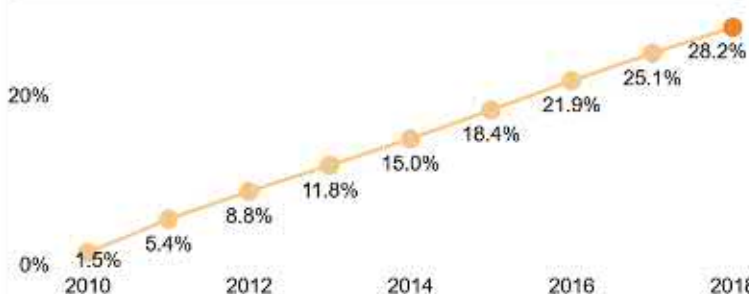


Consumer Mix

● Commercial & Industrial ● Residential ● Agricultural ● Others



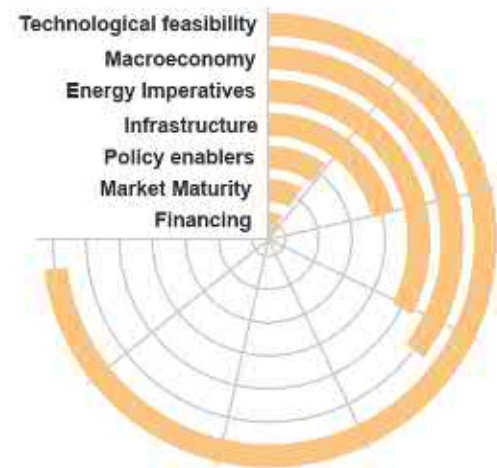
Access to Electricity



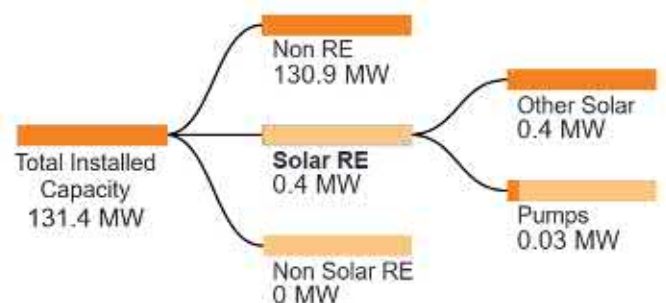
Ease of Doing Solar Classification

🏠 Potential

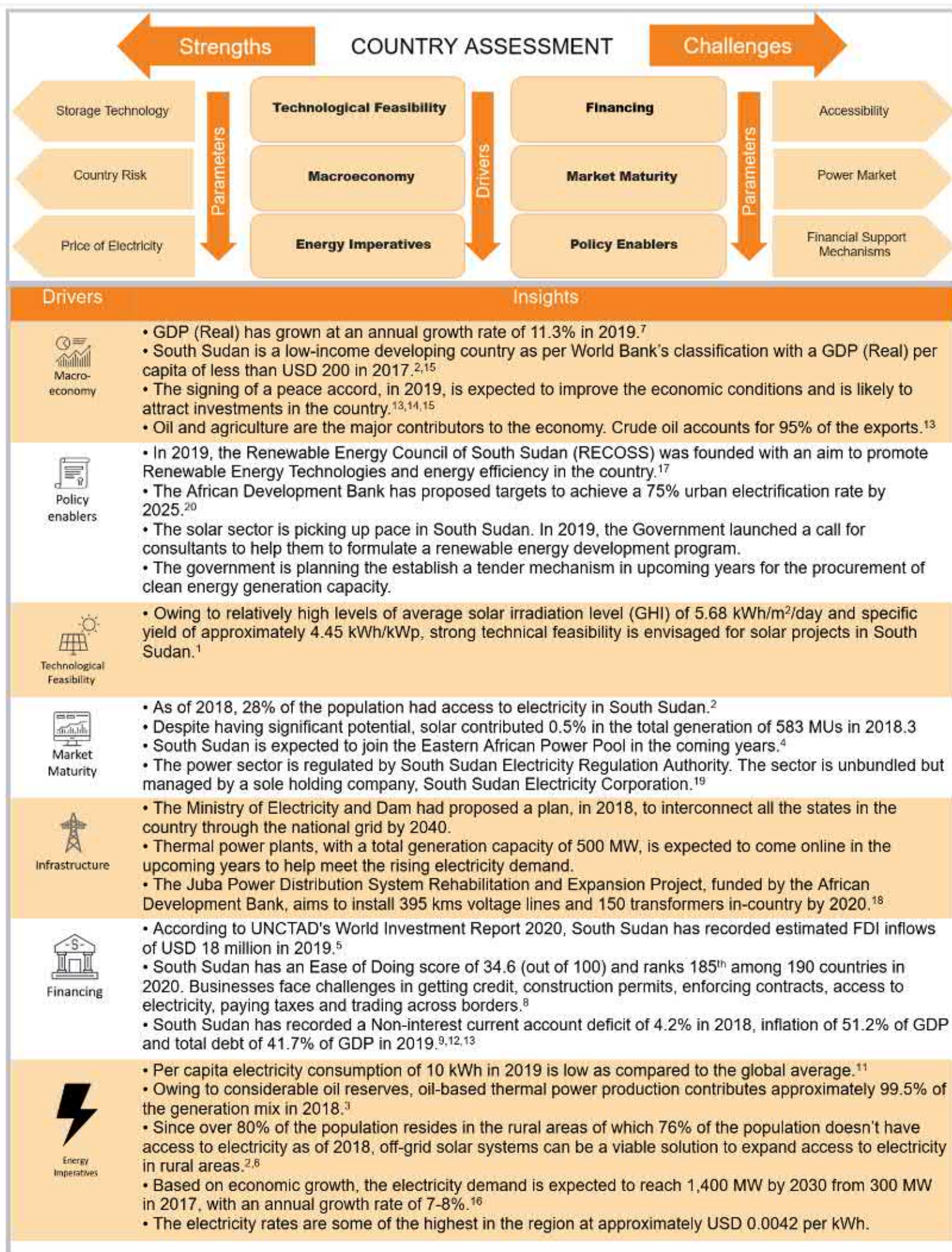
Performance against 7 Drivers

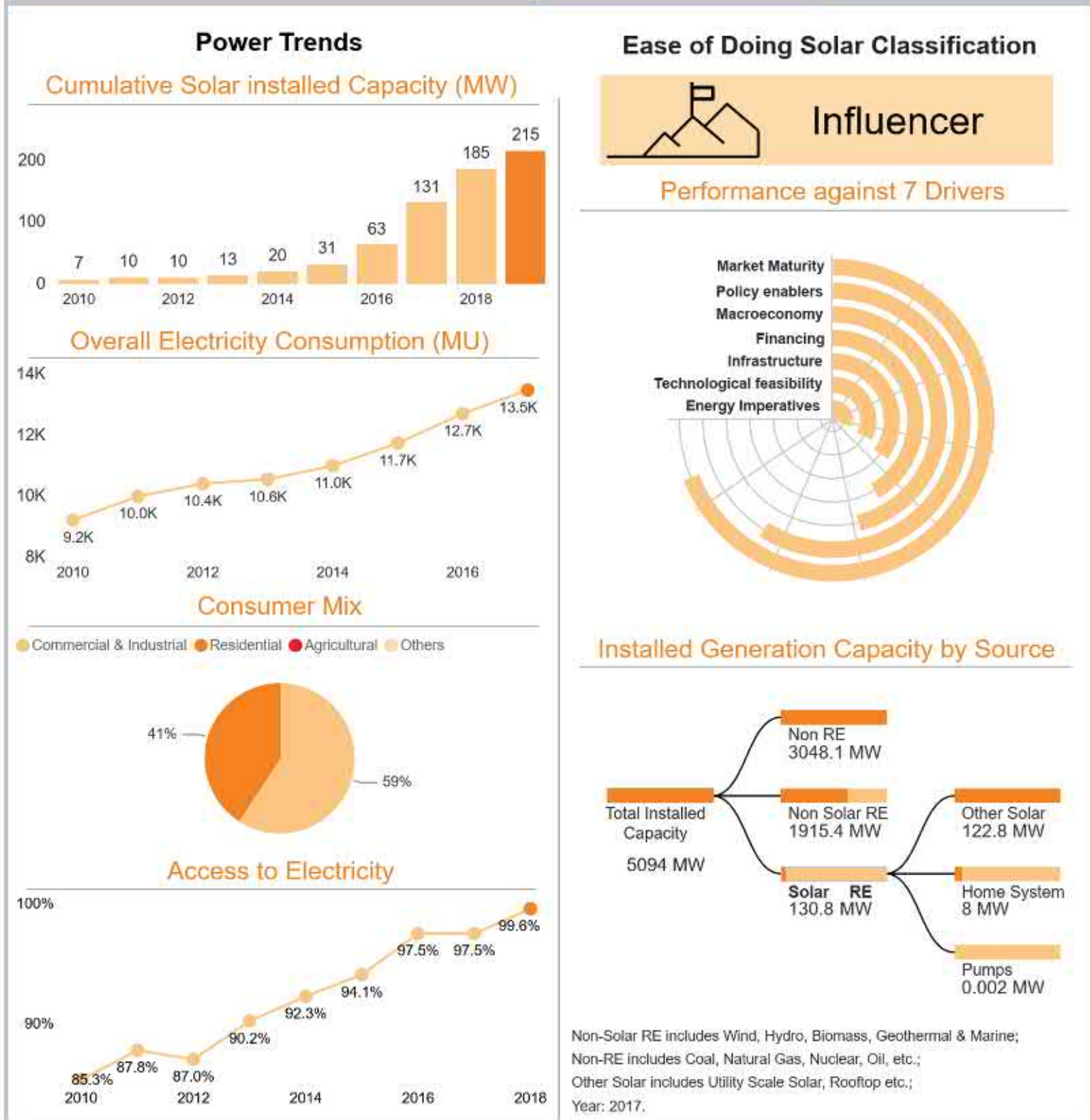
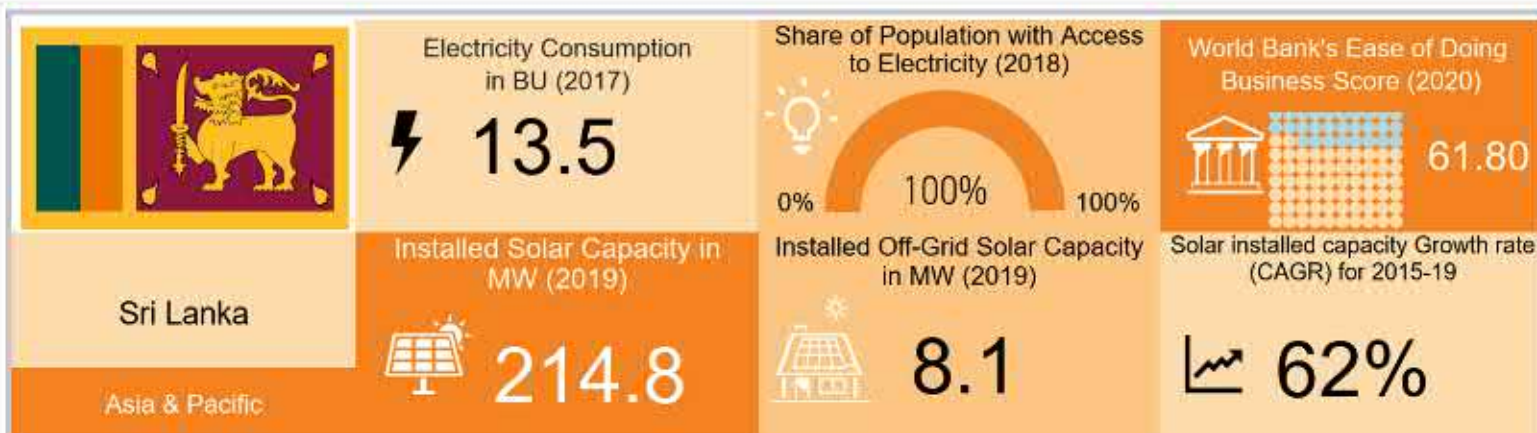


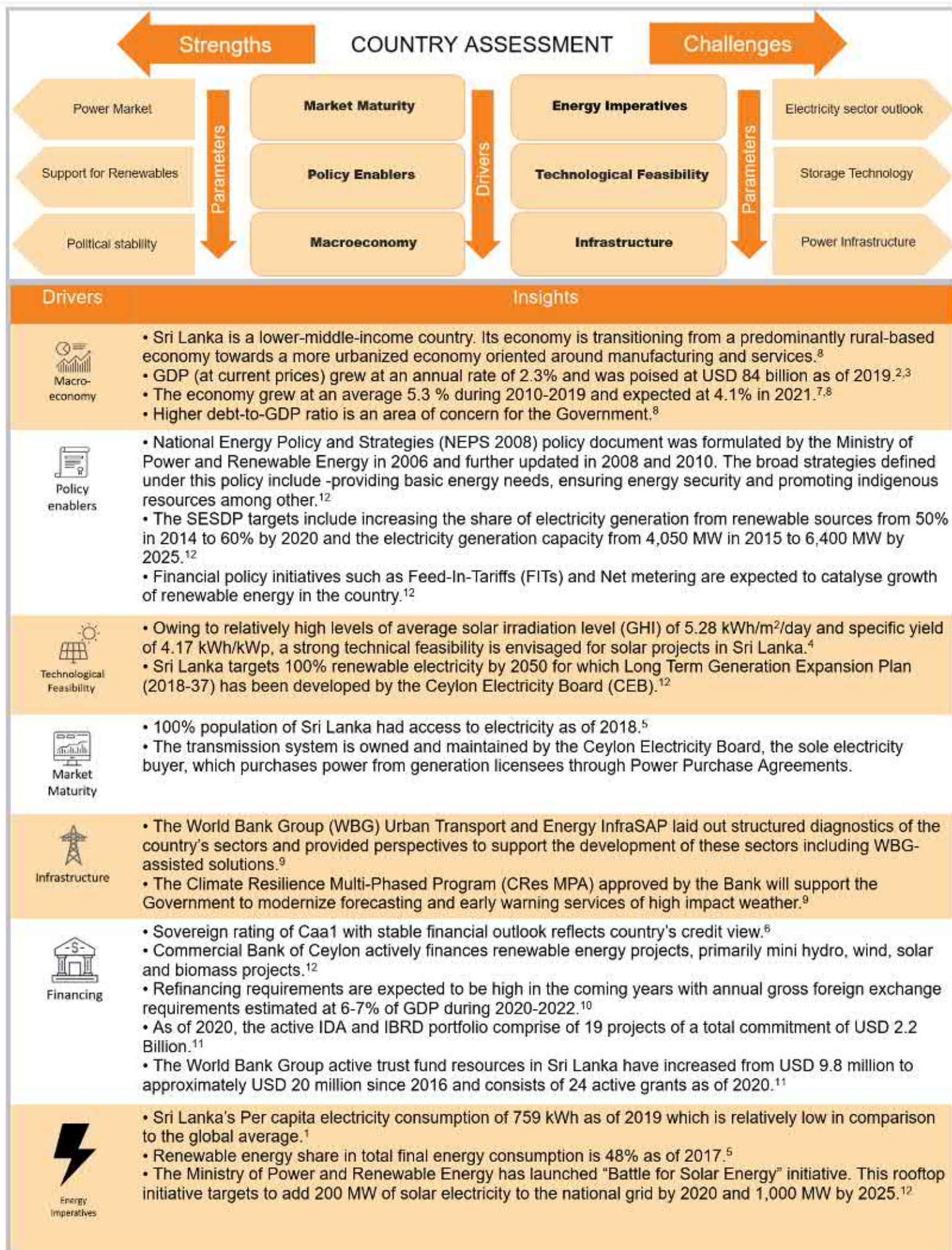
Installed Generation Capacity by Source

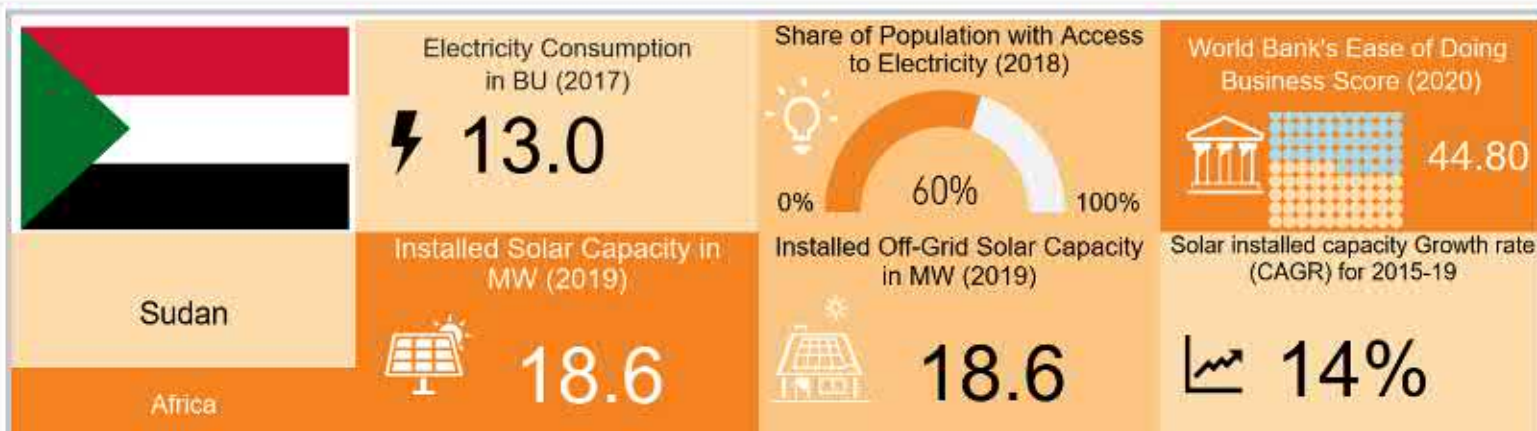


Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
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Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



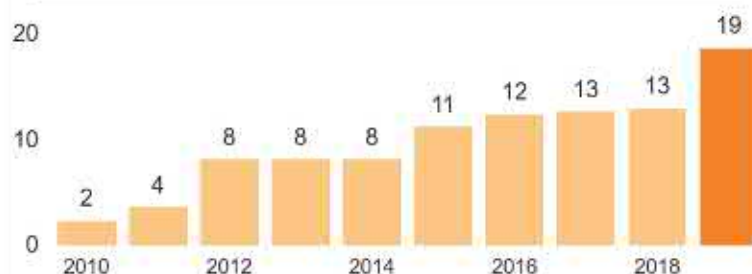




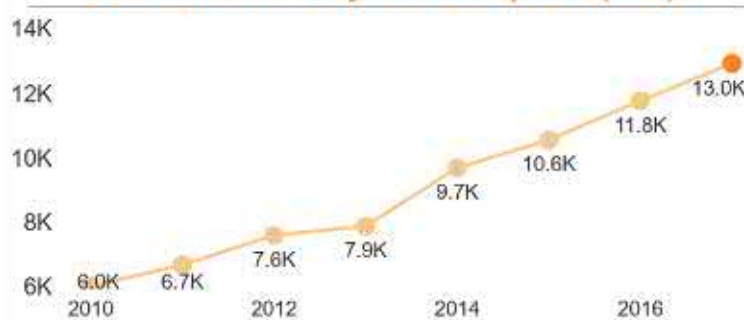


Power Trends

Cumulative Solar installed Capacity (MW)

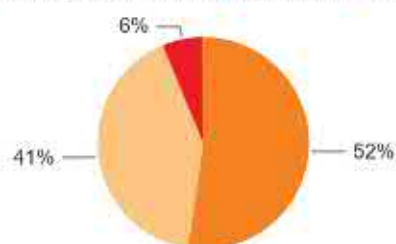


Overall Electricity Consumption (MU)



Consumer Mix

● Residential ● Commercial & Industrial ● Agricultural ● Others



Access to Electricity



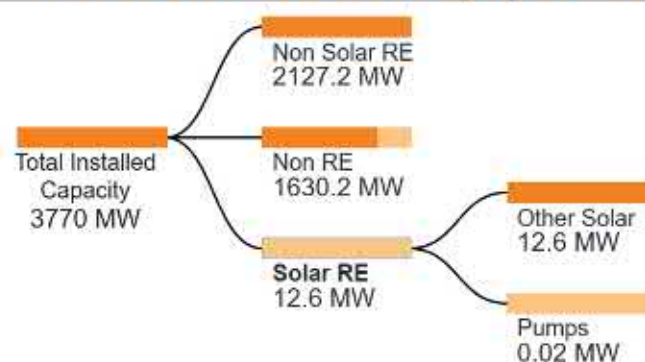
Ease of Doing Solar Classification



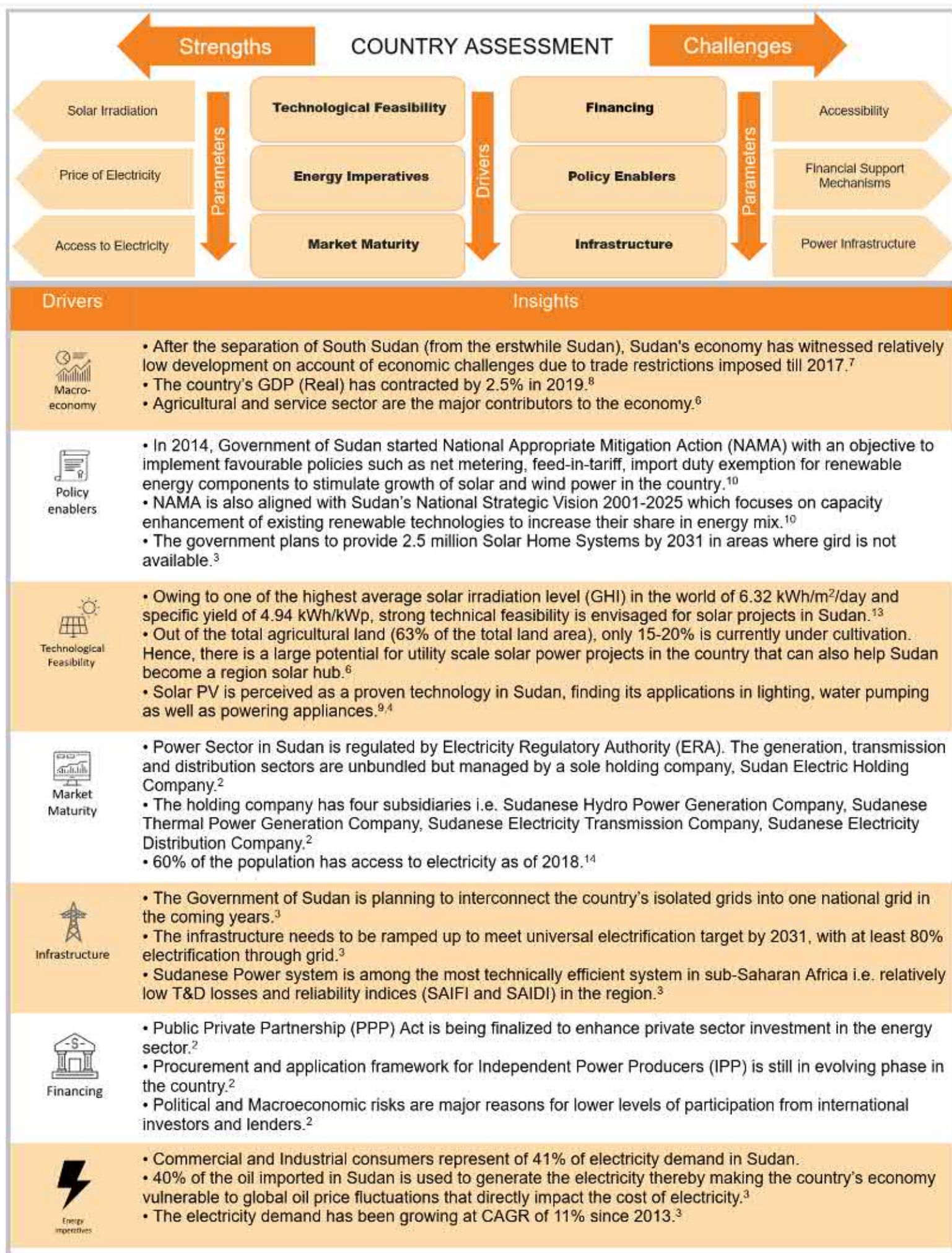
Performance against 7 Drivers

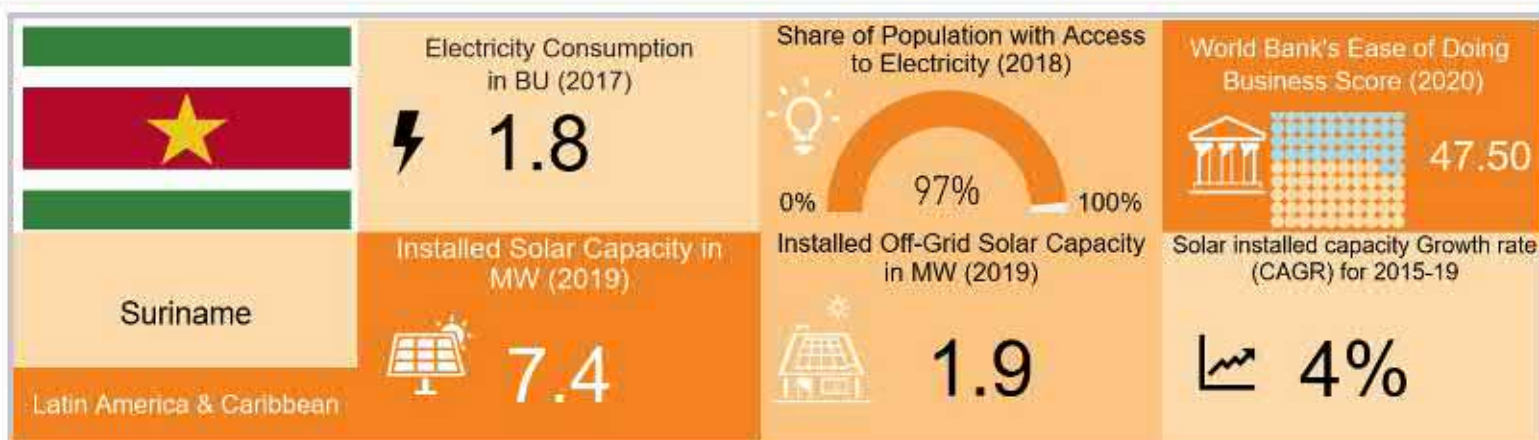


Installed Generation Capacity by Source



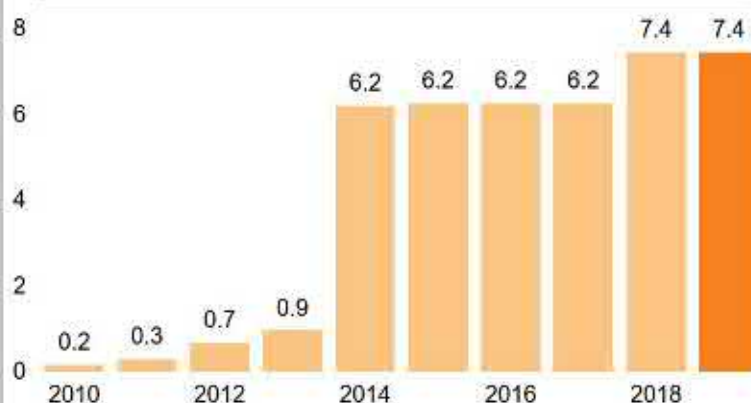
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



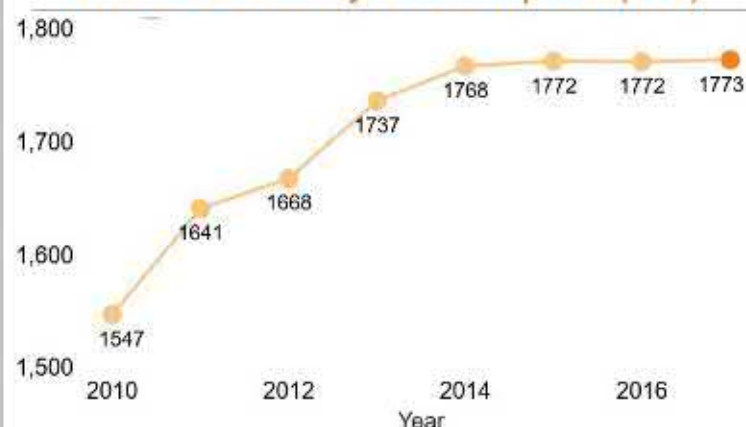


Power Trends

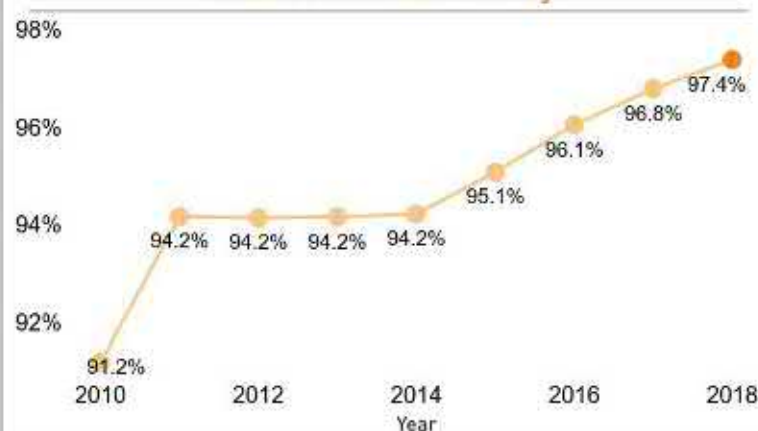
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity



Ease of Doing Solar Classification

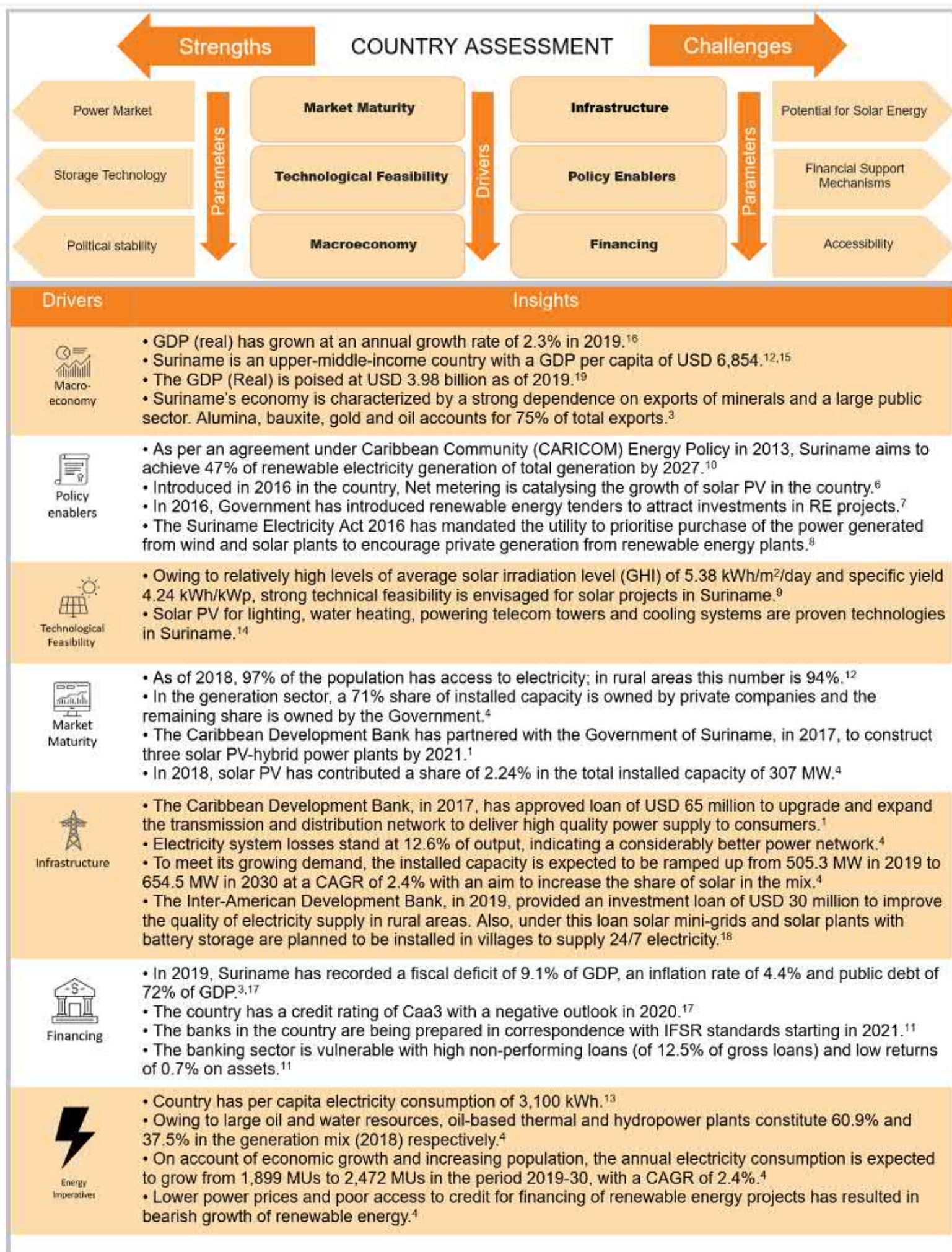


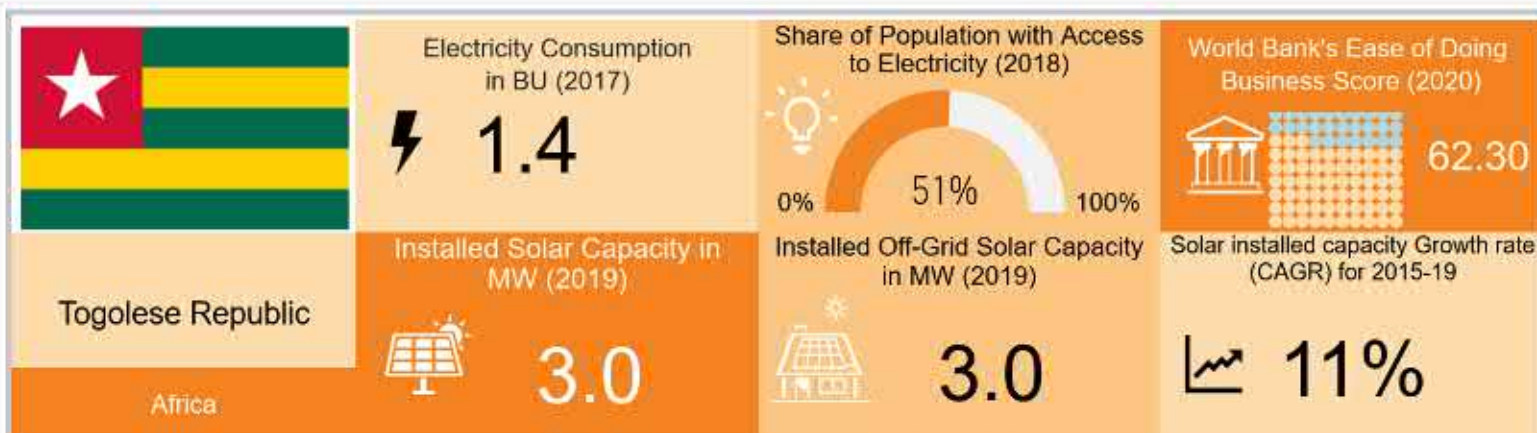
Performance against 7 Drivers



Sub-regional standing

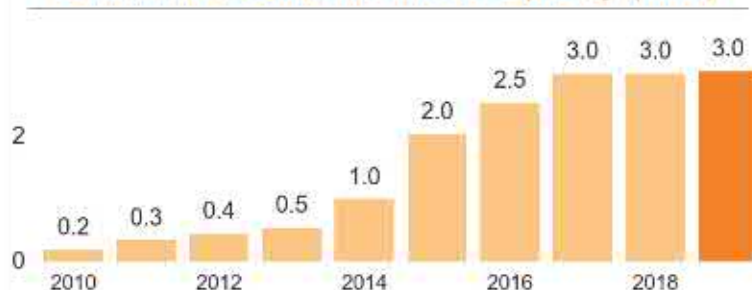






Power Trends

Cumulative Solar installed Capacity (MW)

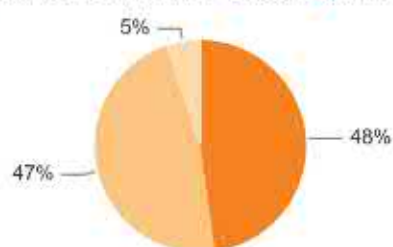


Overall Electricity Consumption (MU)

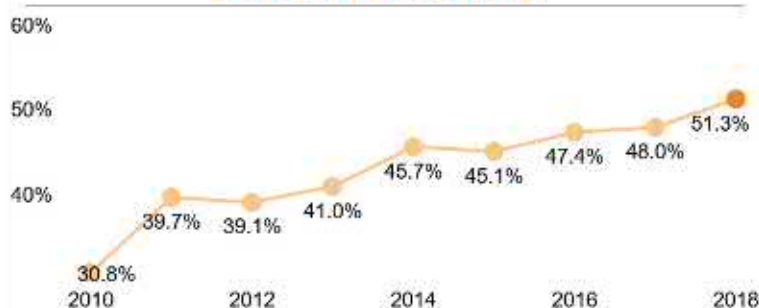


Consumer Mix

● Residential ● Commercial & Industrial ● Others ● Agricultural



Access to Electricity



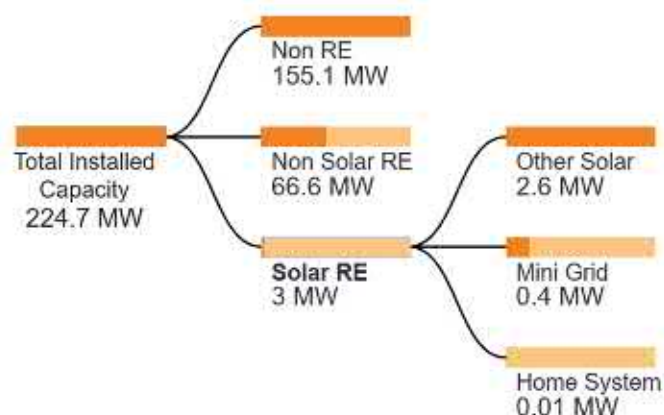
Ease of Doing Solar Classification



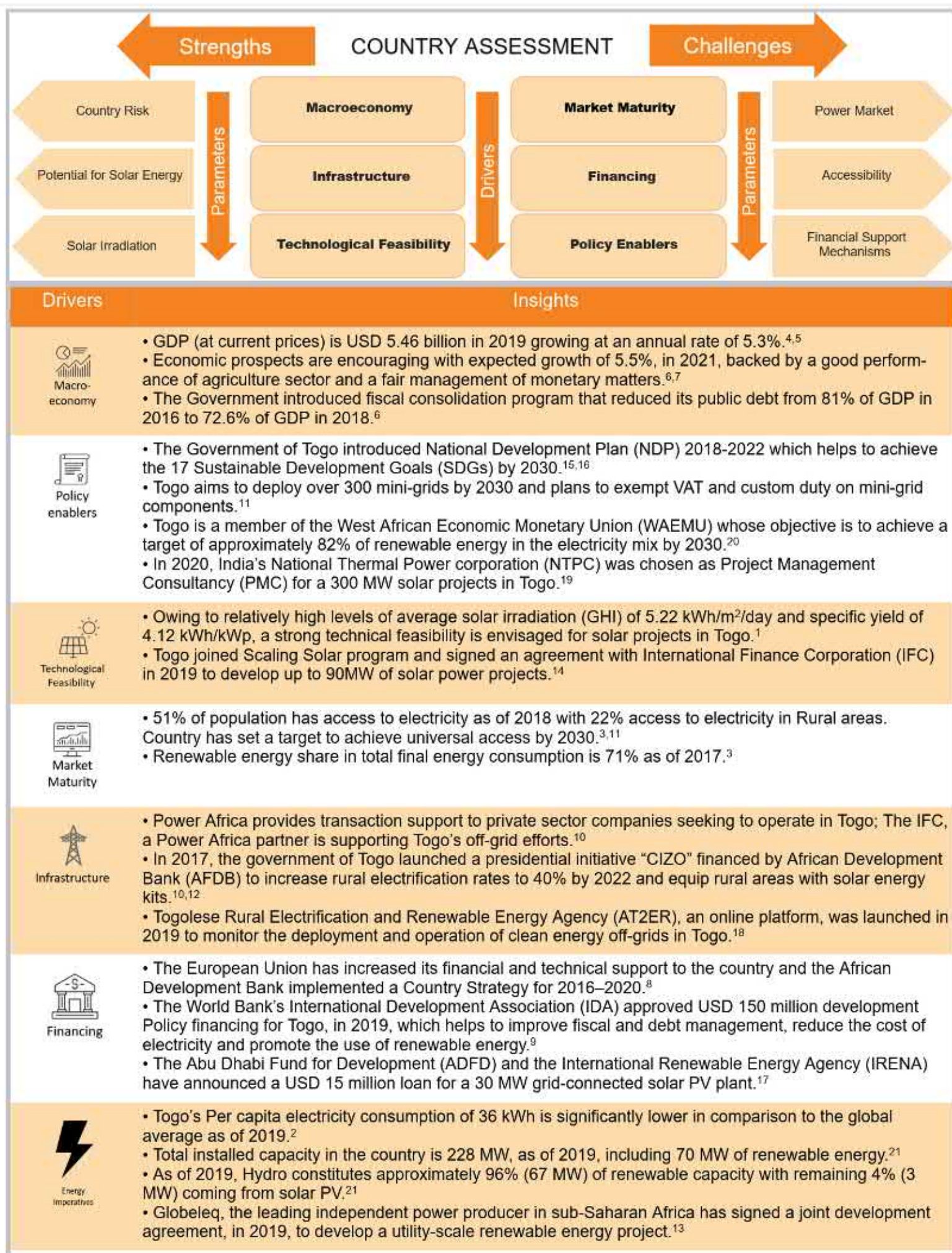
Performance against 7 Drivers

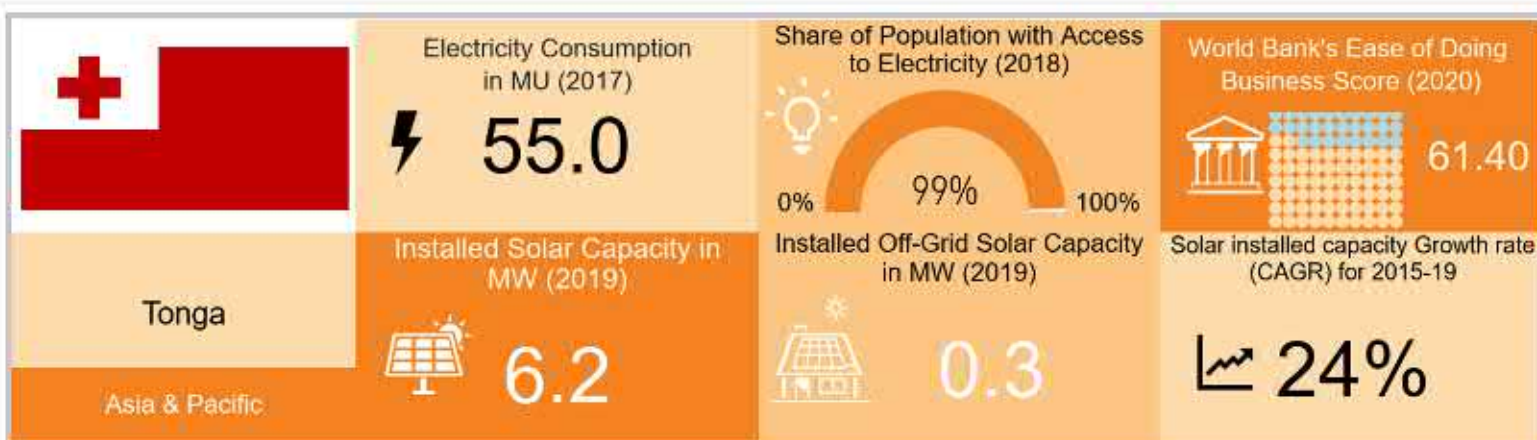


Installed Generation Capacity by Source



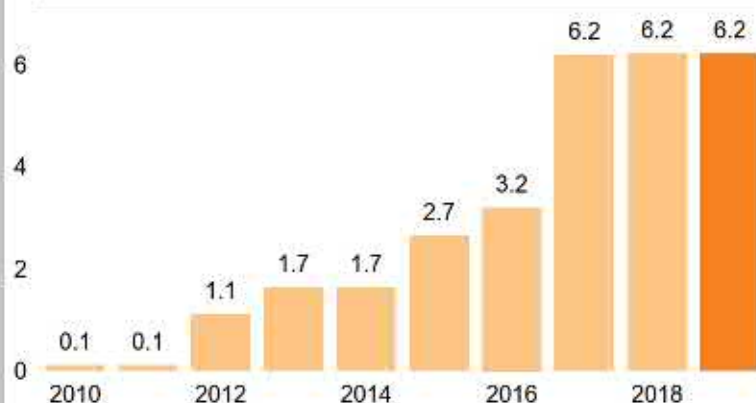
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
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Year: 2017.



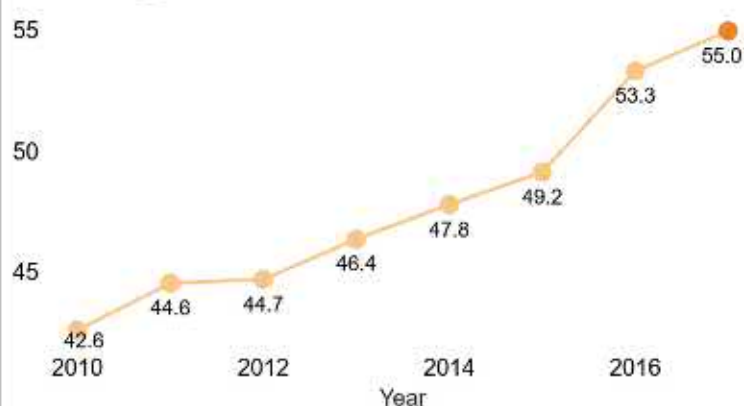


Power Trends

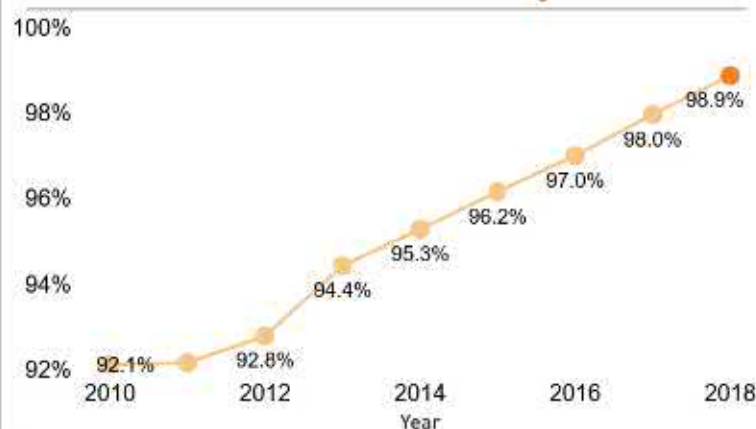
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity



Ease of Doing Solar Classification

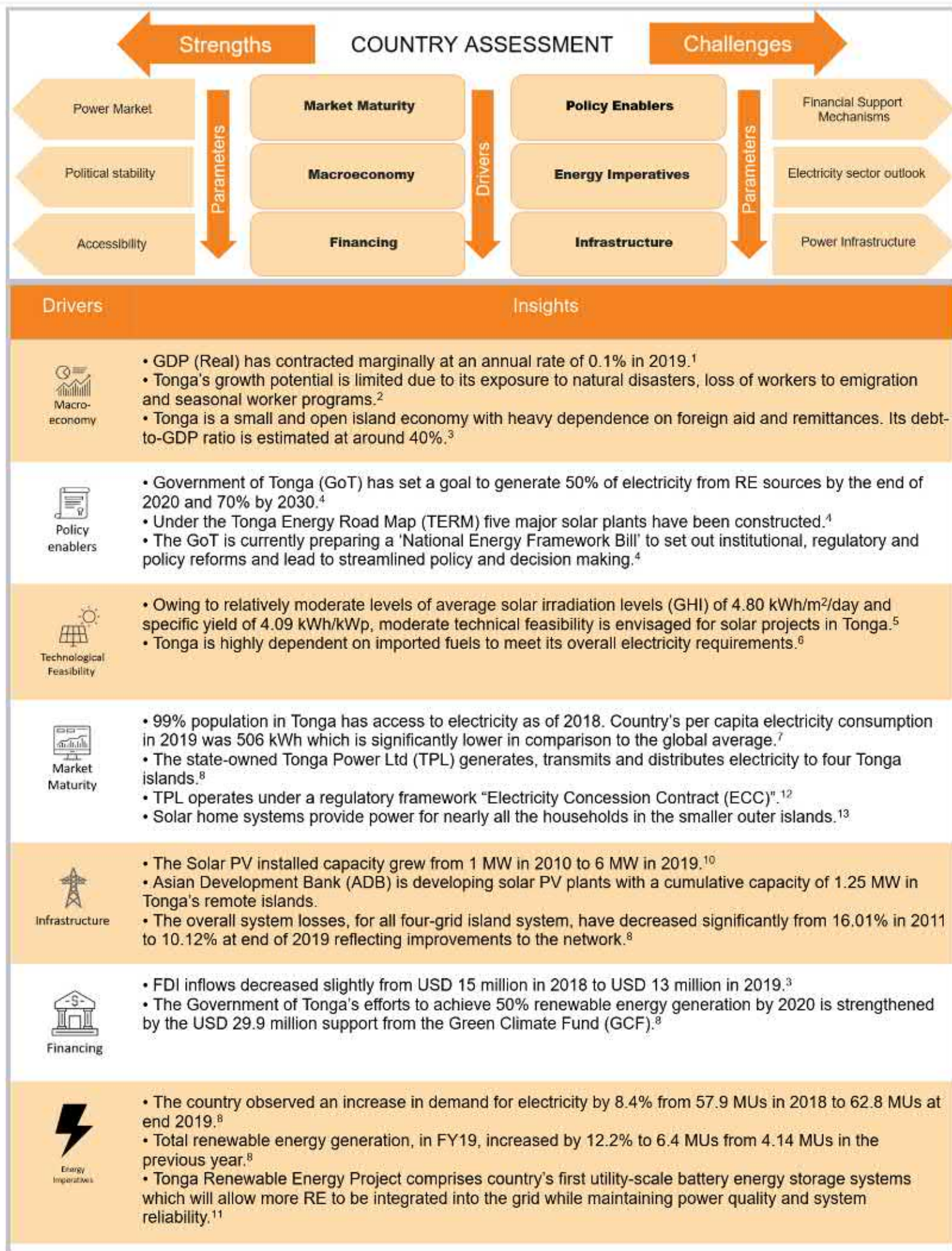


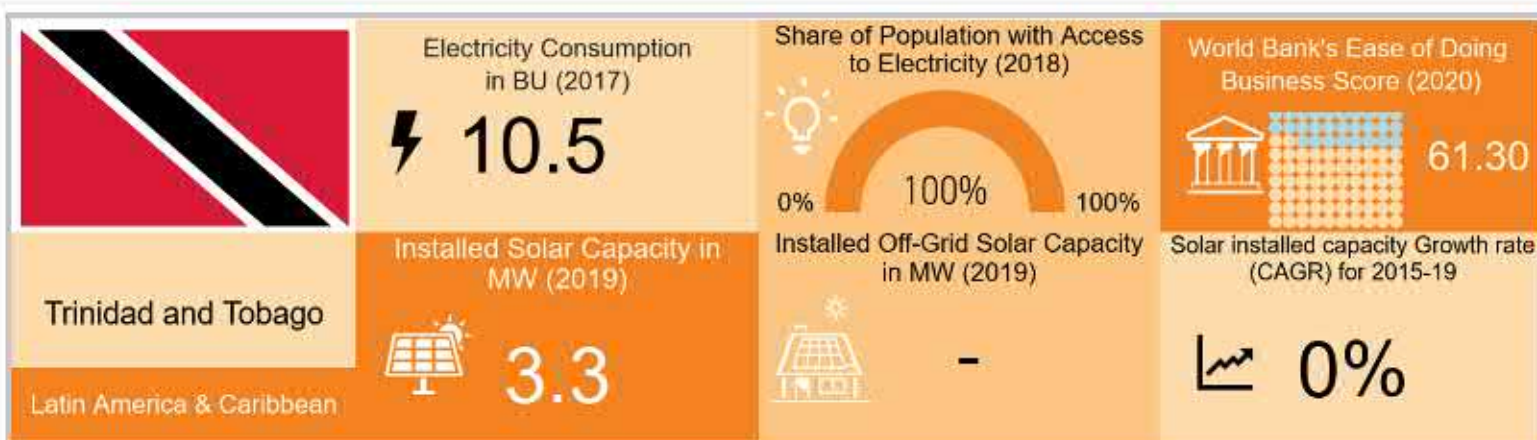
Performance against 7 Drivers



Sub-regional standing





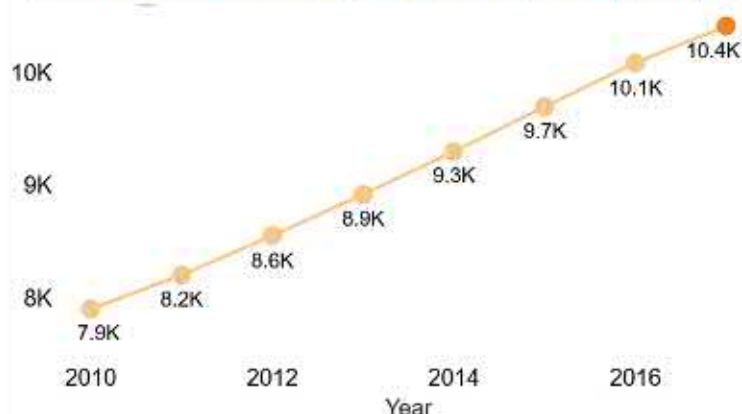


Power Trends

Cumulative Solar installed Capacity (MW)



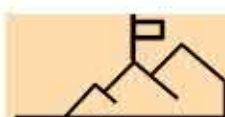
Overall Electricity Consumption (MU)



Access to Electricity

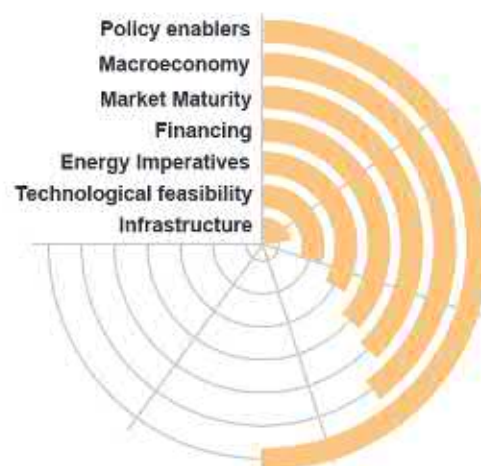


Ease of Doing Solar Classification



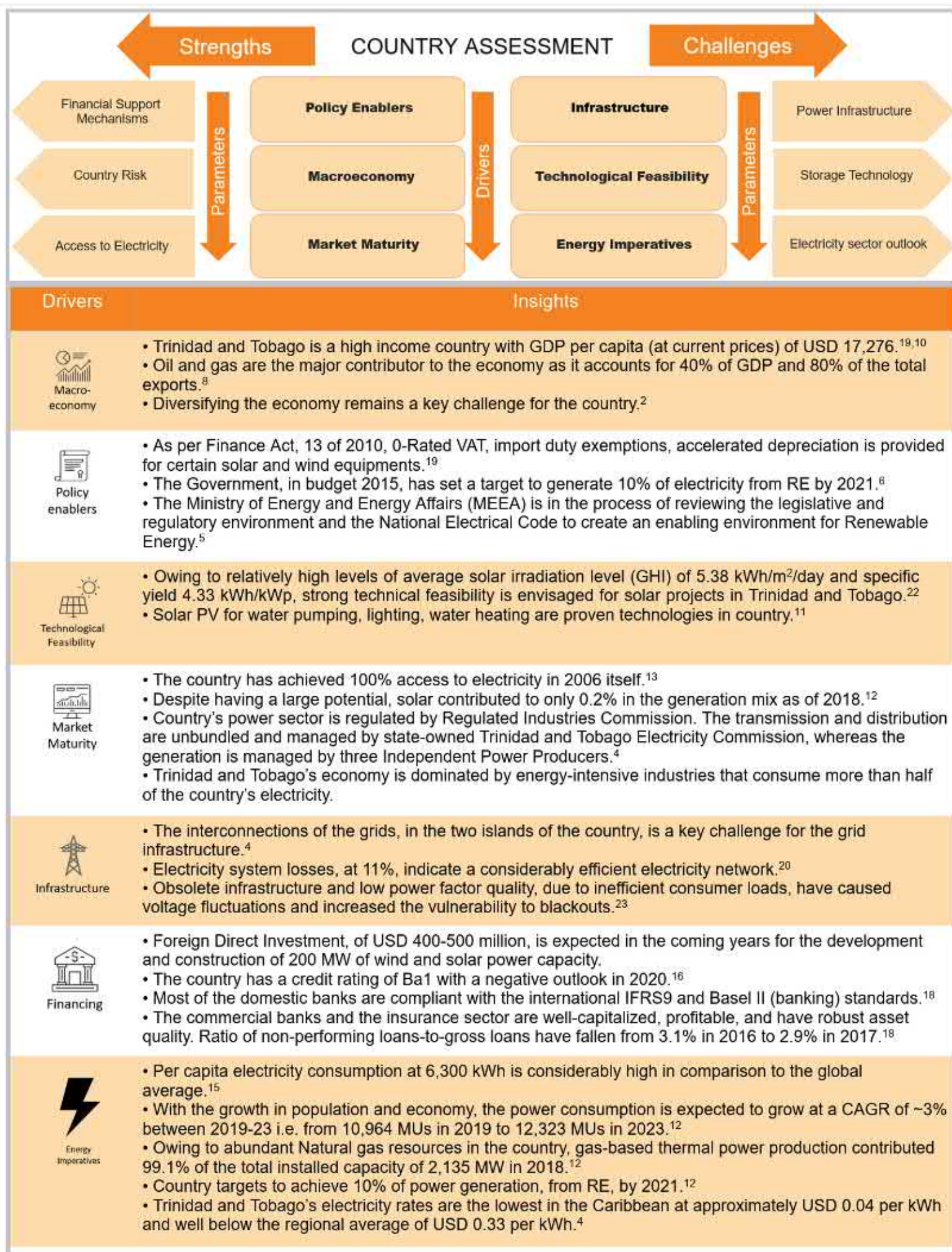
Influencer

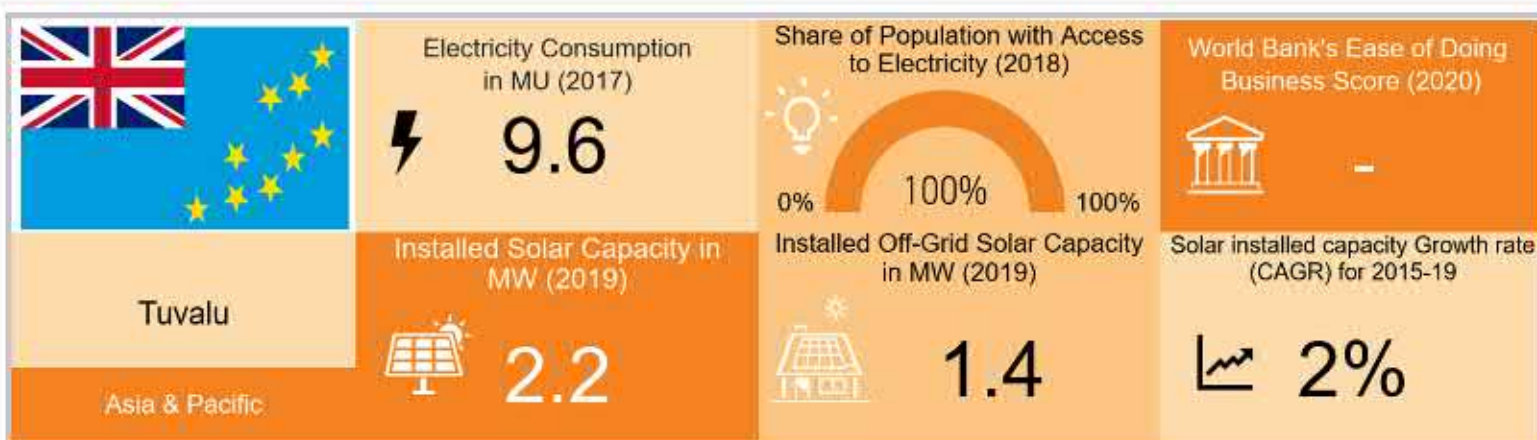
Performance against 7 Drivers



Sub-regional standing





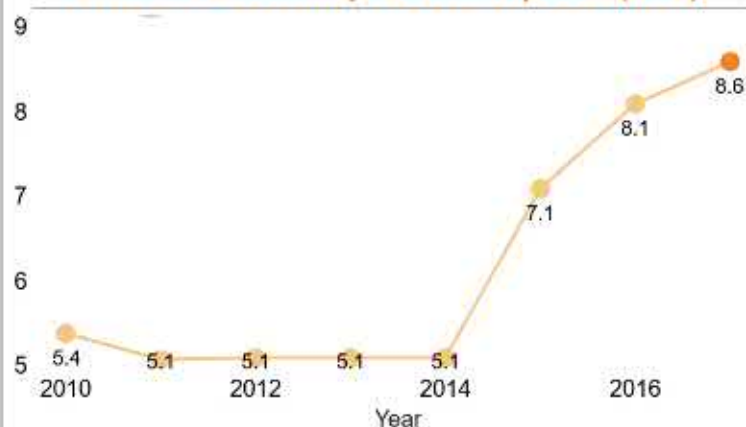


Power Trends

Cumulative Solar installed Capacity (MW)



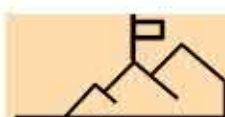
Overall Electricity Consumption (MU)



Access to Electricity



Ease of Doing Solar Classification

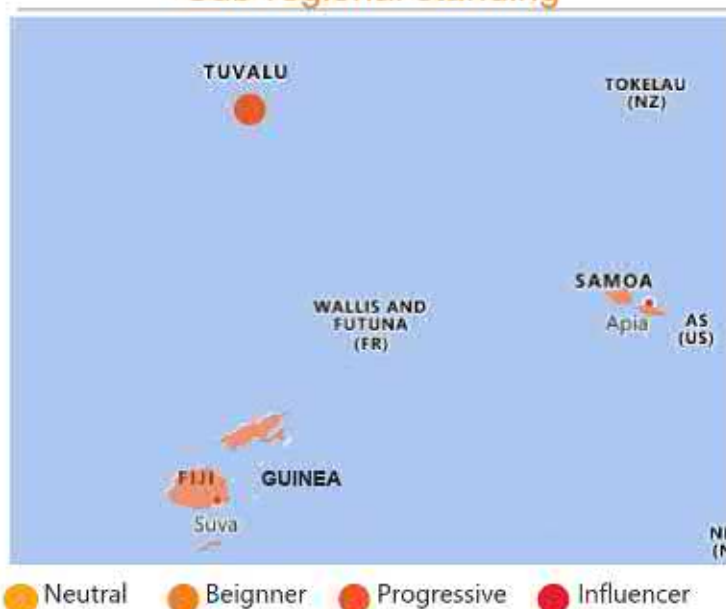


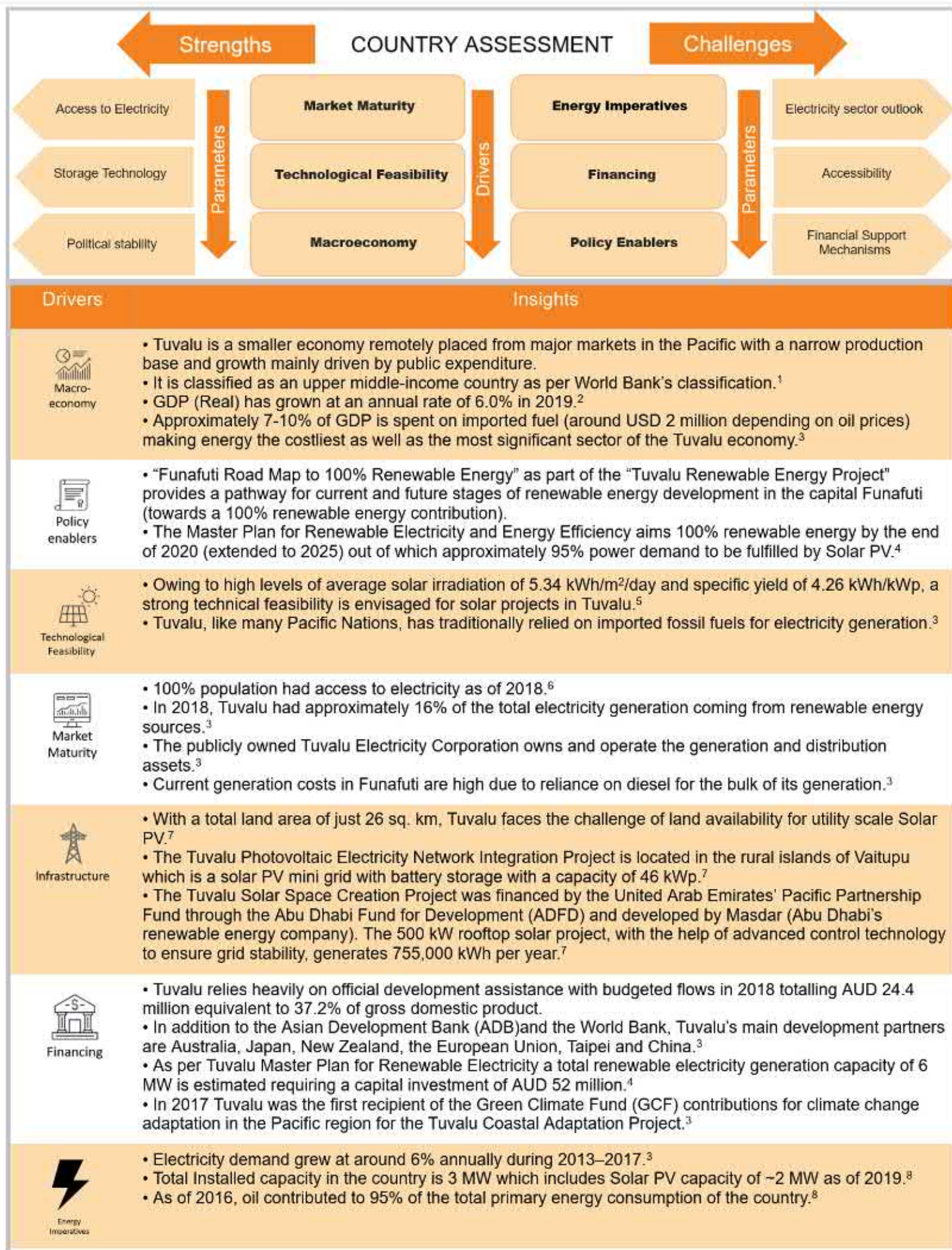
Influencer

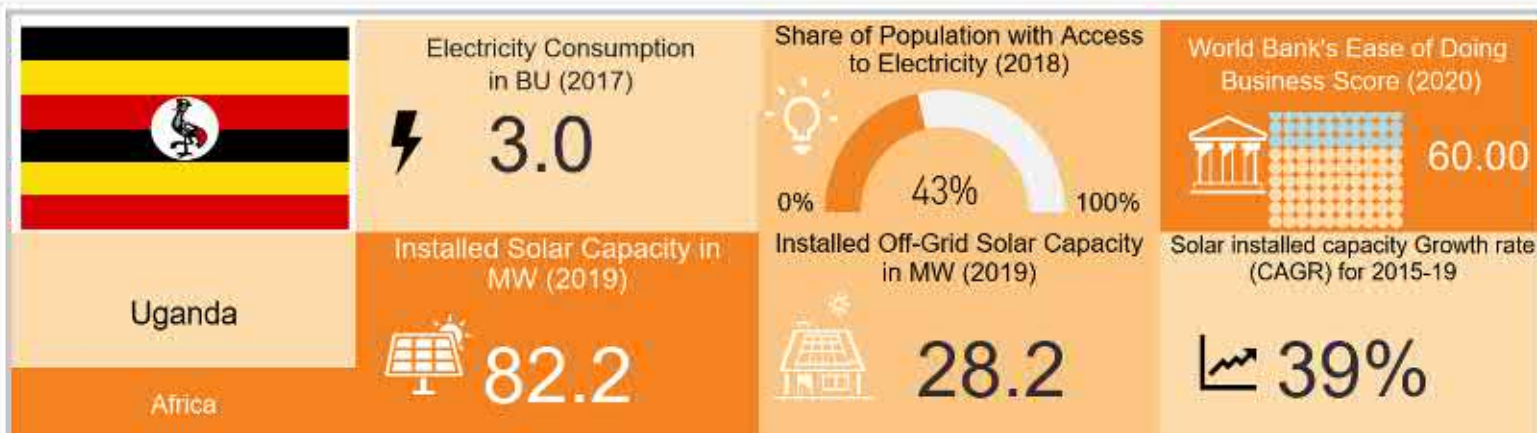
Performance against 7 Drivers



Sub-regional standing

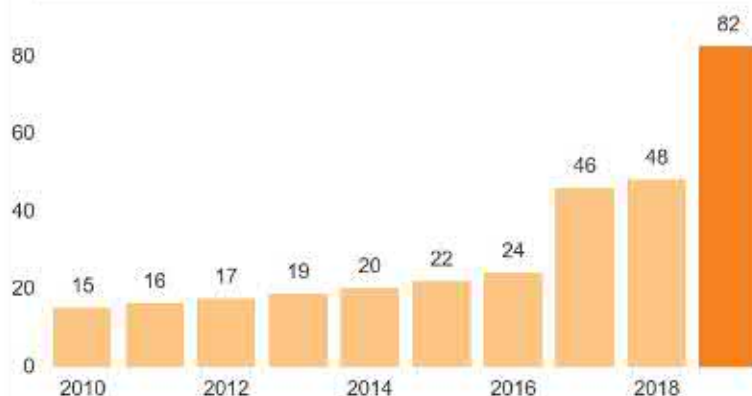






Power Trends

Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



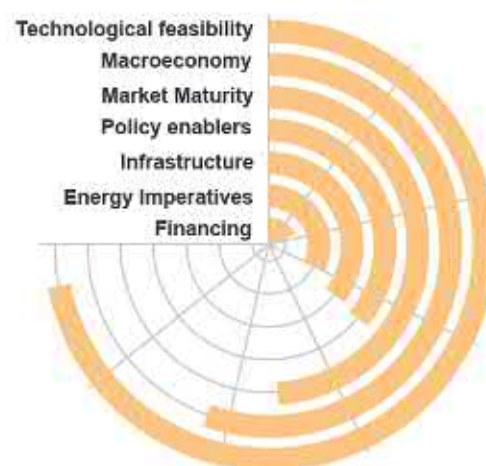
Access to Electricity



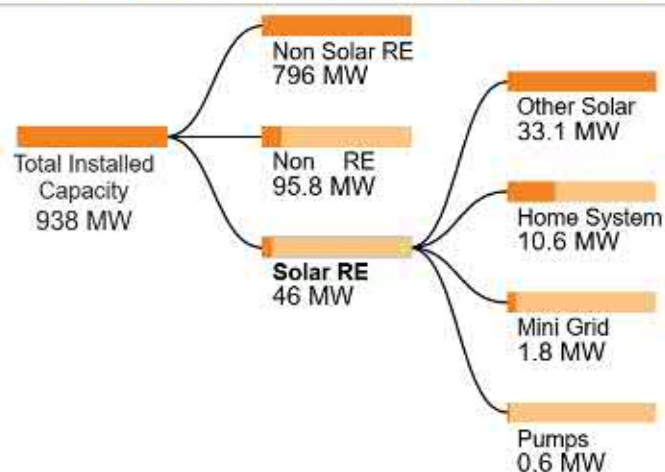
Ease of Doing Solar Classification



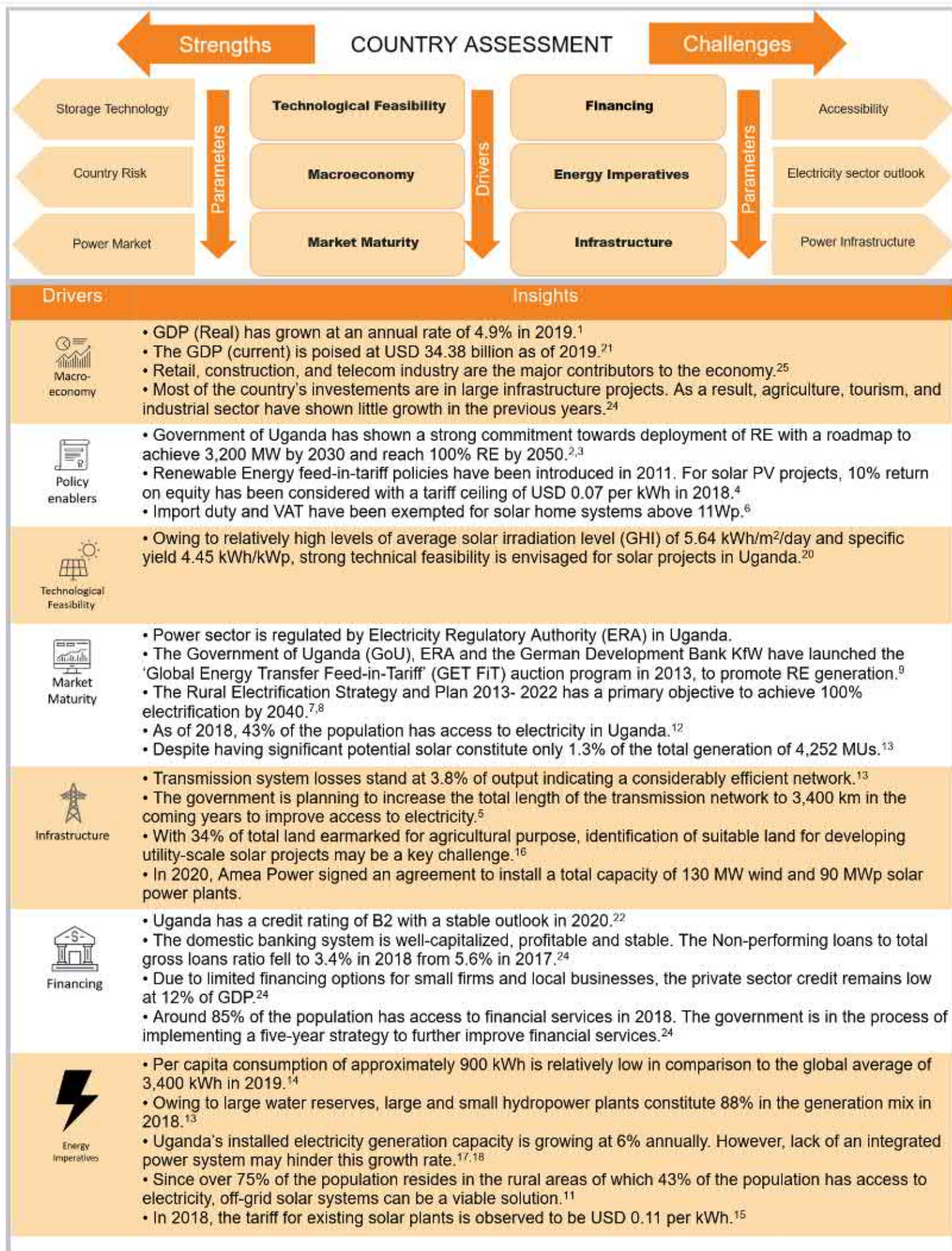
Performance against 7 Drivers

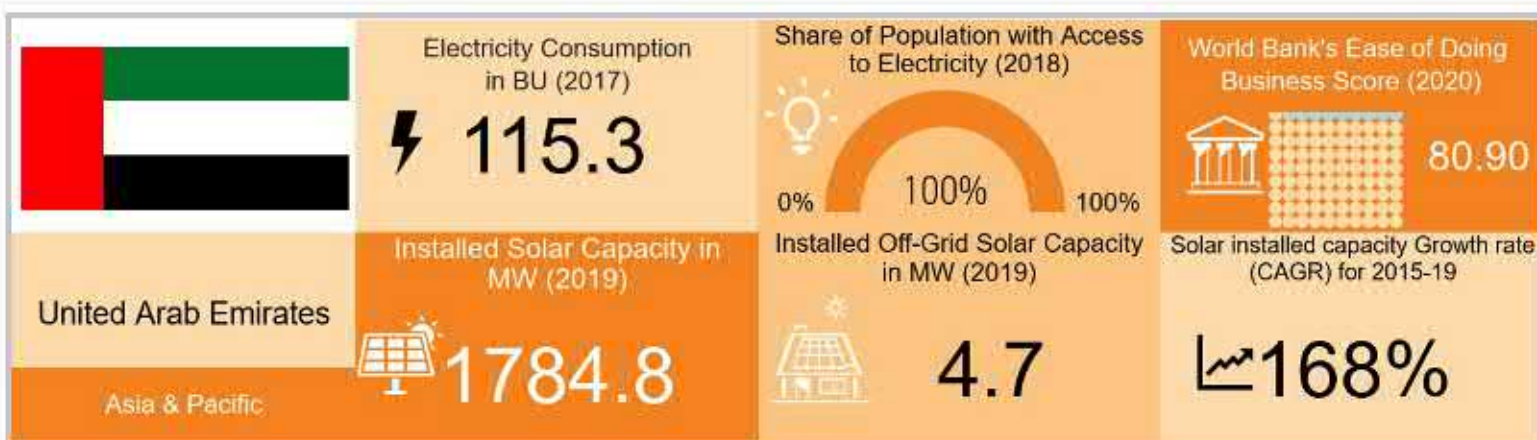


Installed Generation Capacity by Source



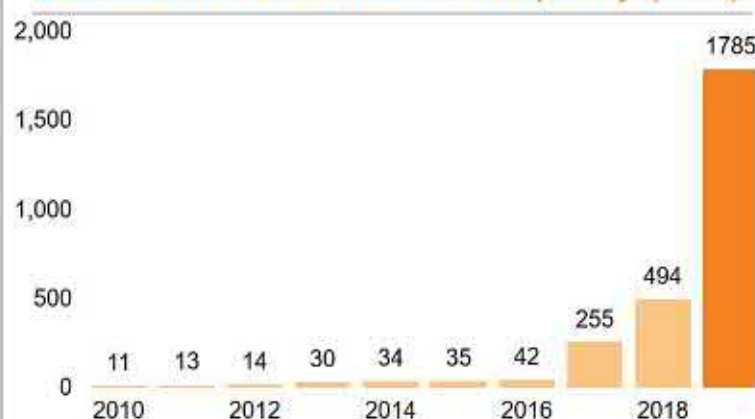
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Year: 2017.



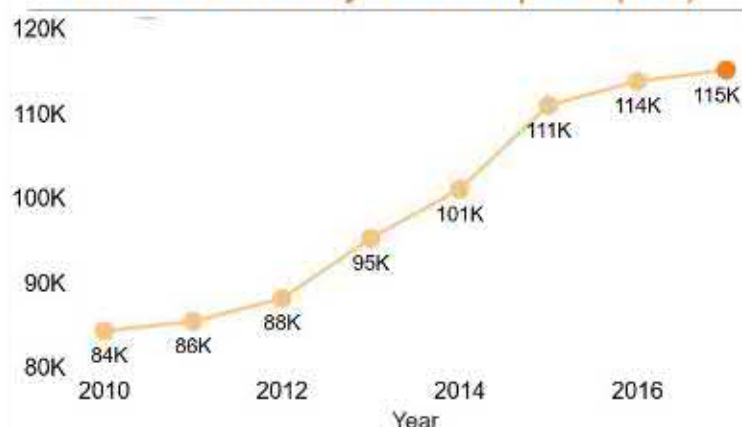


Power Trends

Cumulative Solar installed Capacity (MW)



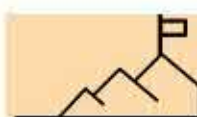
Overall Electricity Consumption (MU)



Access to Electricity

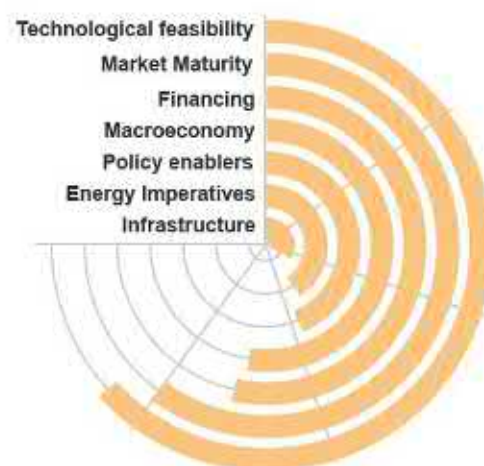


Ease of Doing Solar Classification



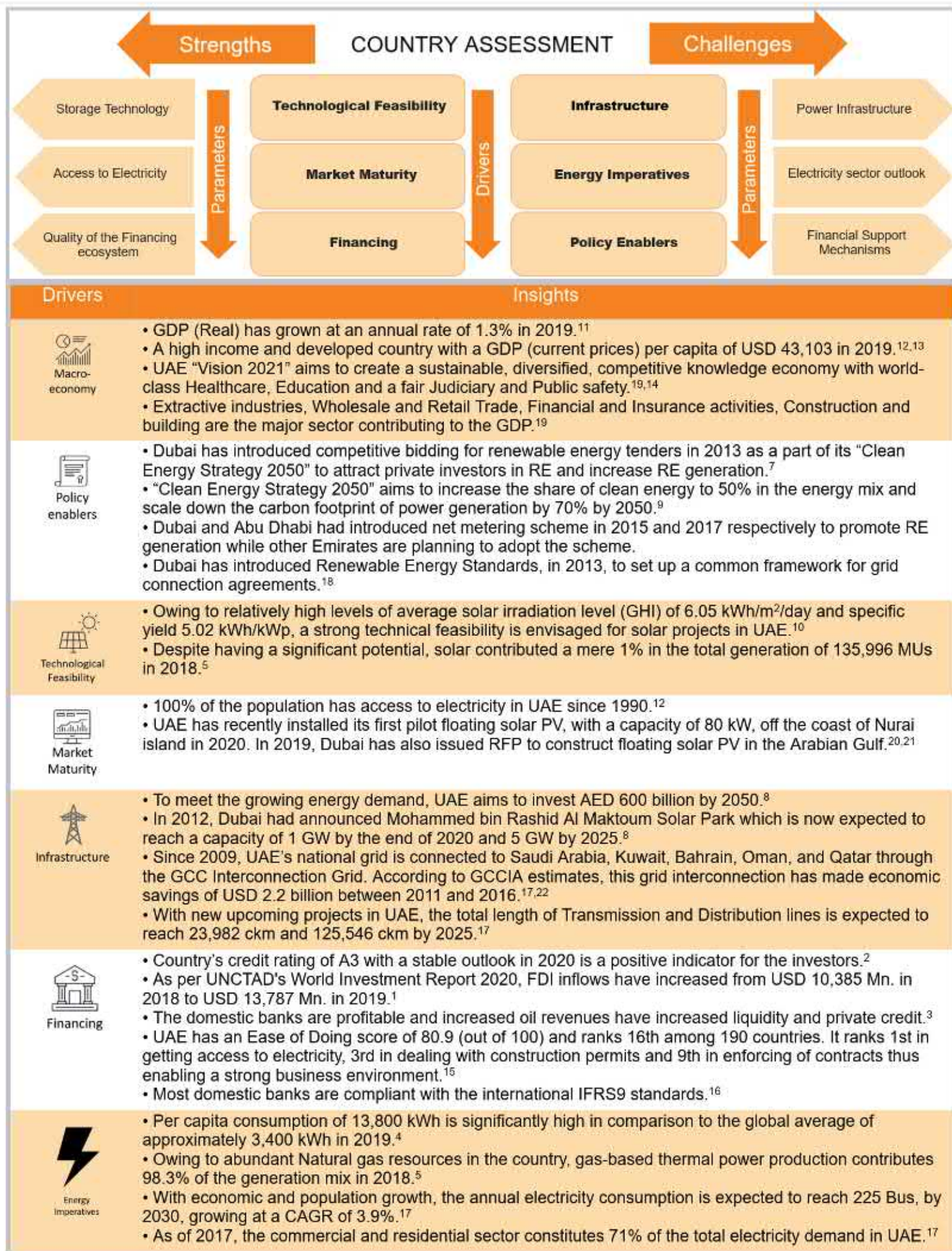
Achiever

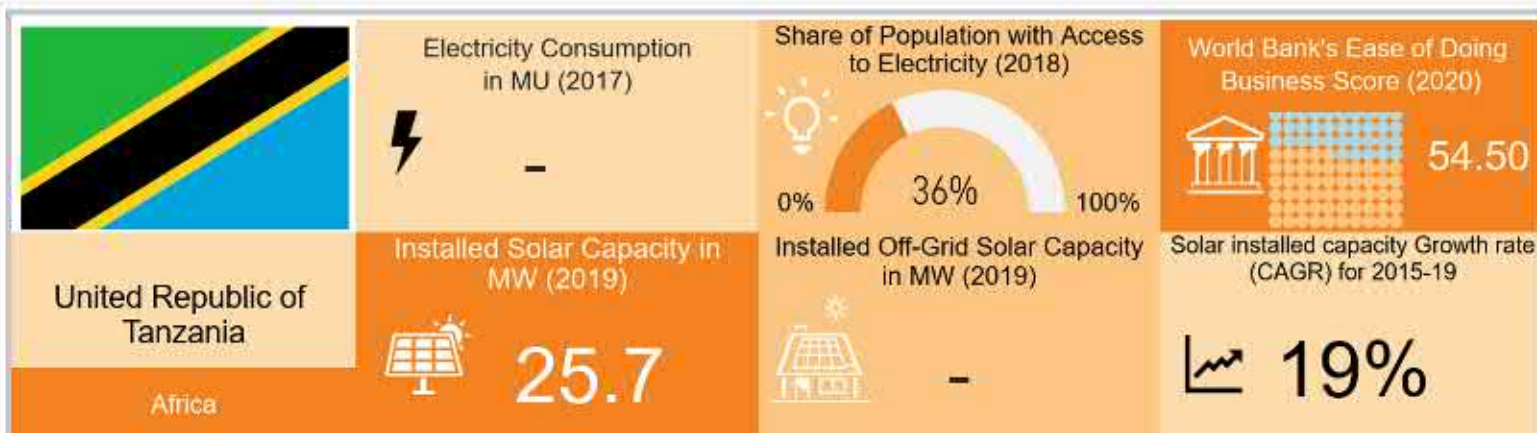
Performance against 7 Drivers



Sub-regional standing

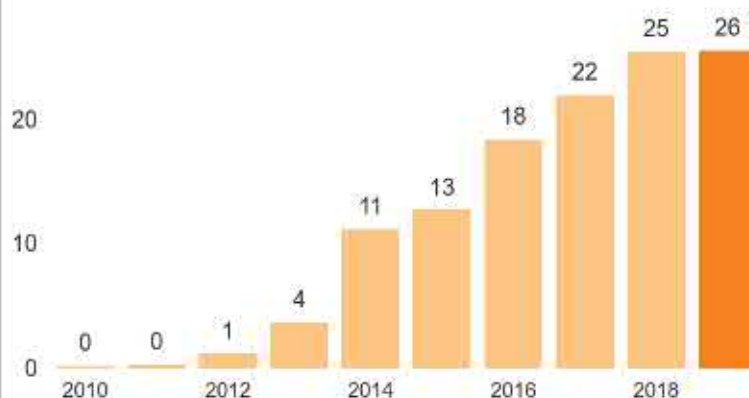






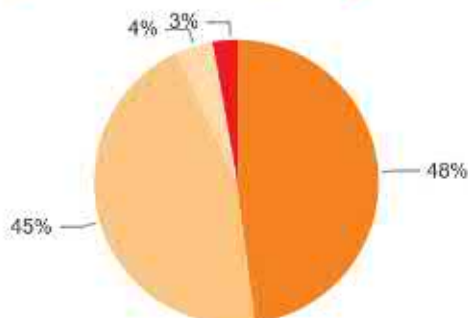
Power Trends

Cumulative Solar installed Capacity (MW)

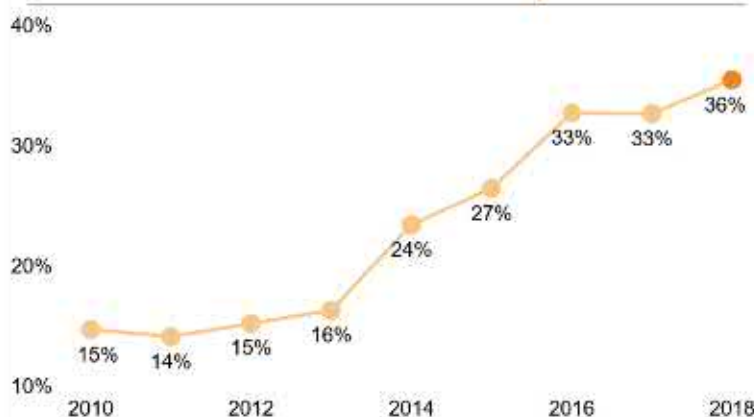


Consumer Mix

● Residential ● Commercial & Industrial ● Others ● Agricultural



Access to Electricity

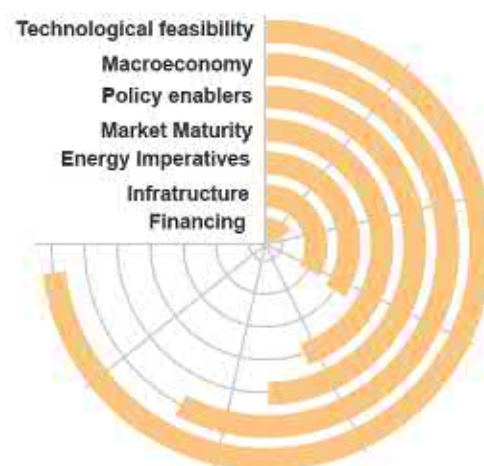


Ease of Doing Solar Classification

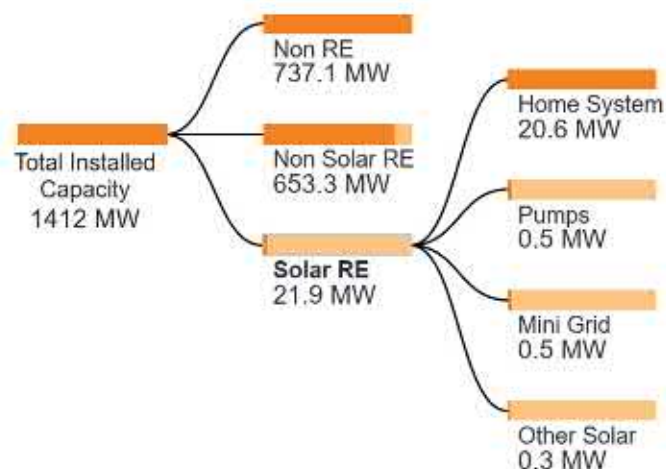


Influencer

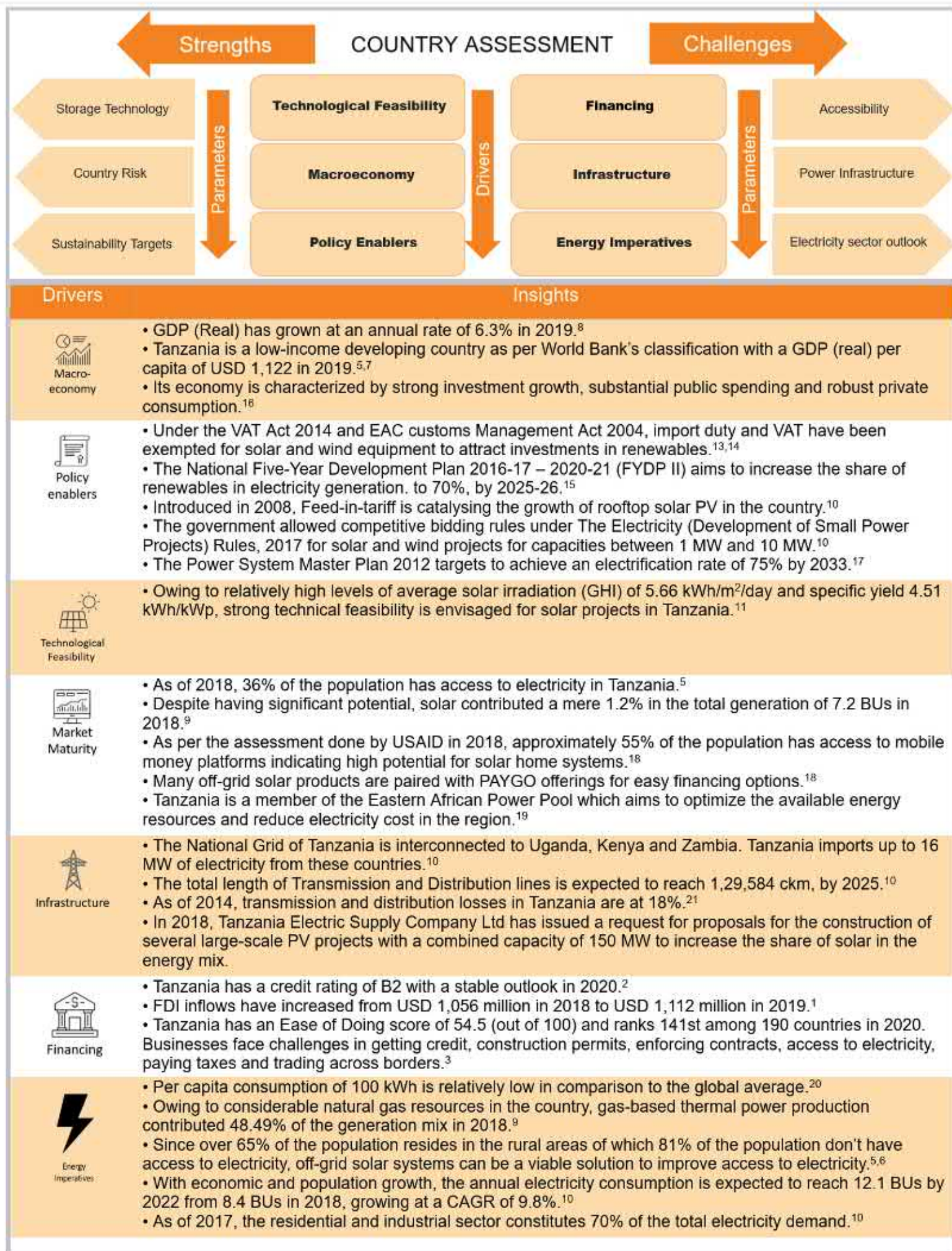
Performance against 7 Drivers



Installed Generation Capacity by Source



Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
 Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
 Other Solar includes Utility Scale Solar, Rooftop etc.;
 Year: 2017.





Vanuatu

Asia & Pacific

Electricity Consumption
in MU (2017)

68.0

Installed Solar Capacity in
MW (2019)



2.7

Share of Population with Access
to Electricity (2018)



0% 62% 100%

Installed Off-Grid Solar Capacity
in MW (2019)



1.3

World Bank's Ease of Doing
Business Score (2020)



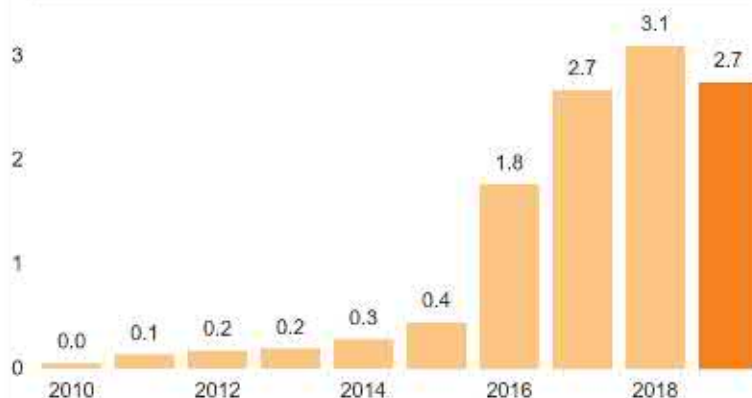
61.10

Solar installed capacity Growth rate
(CAGR) for 2015-19

58%

Power Trends

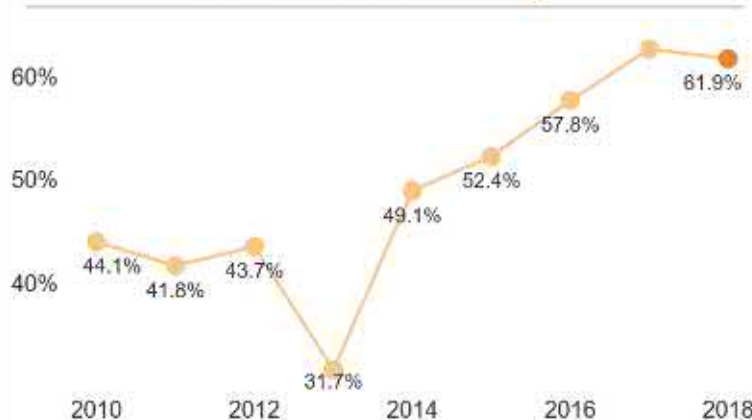
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

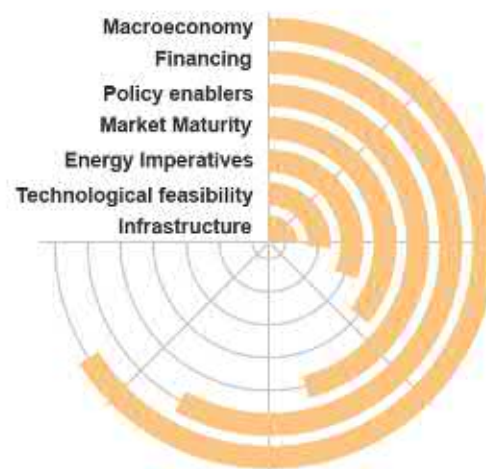


Ease of Doing Solar Classification

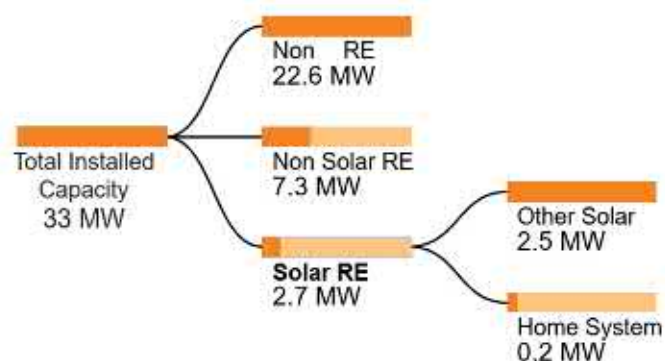


Potential

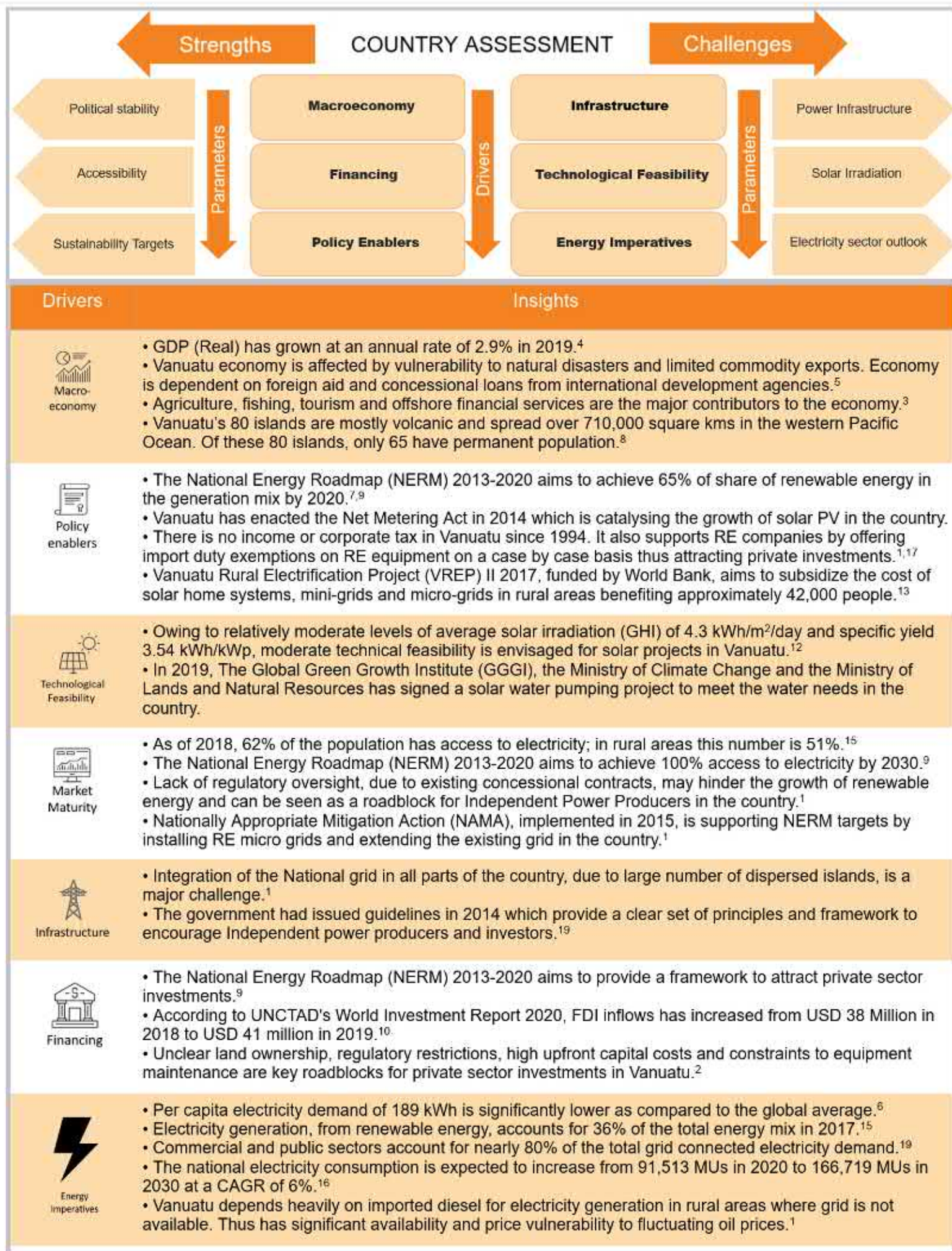
Performance against 7 Drivers

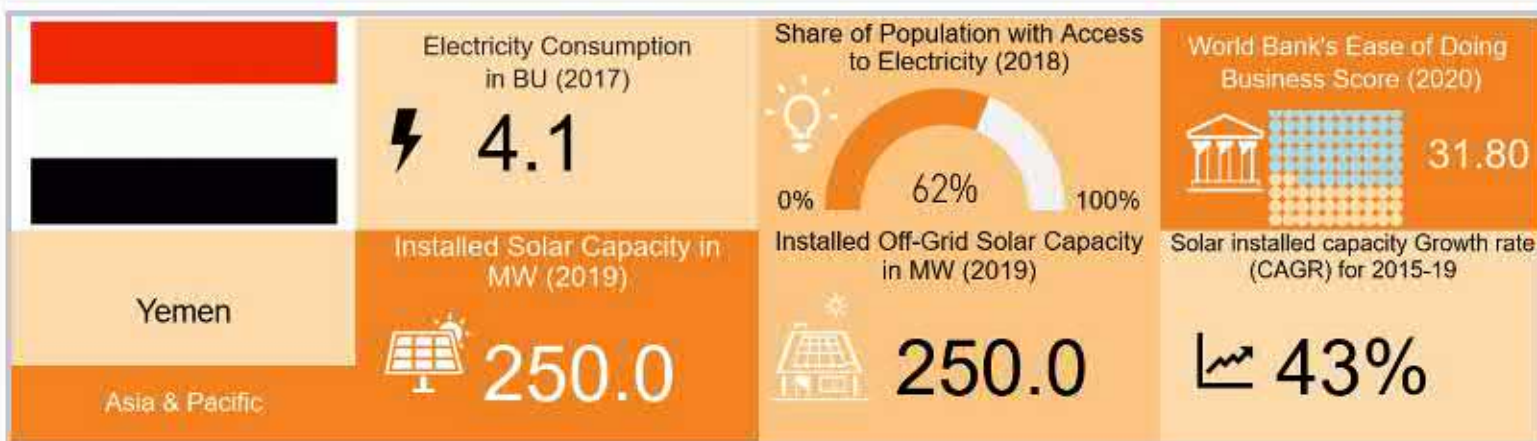


Installed Generation Capacity by Source



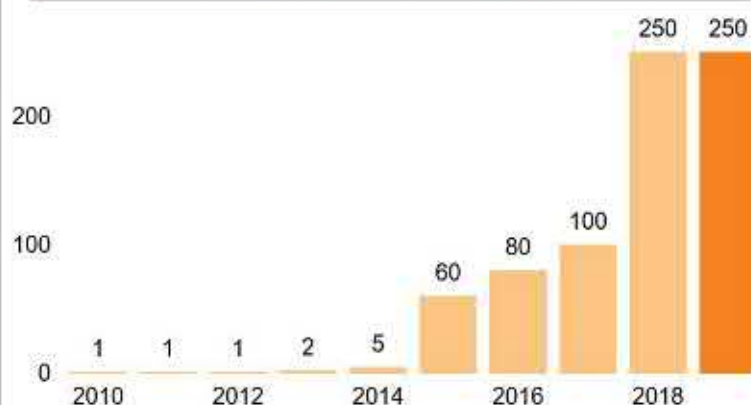
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.



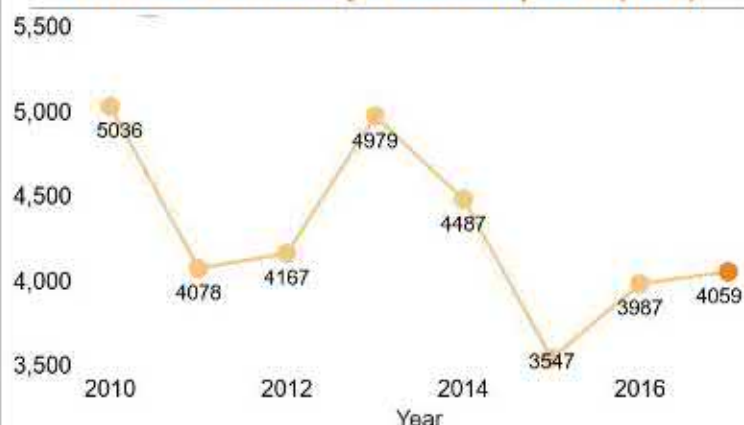


Power Trends

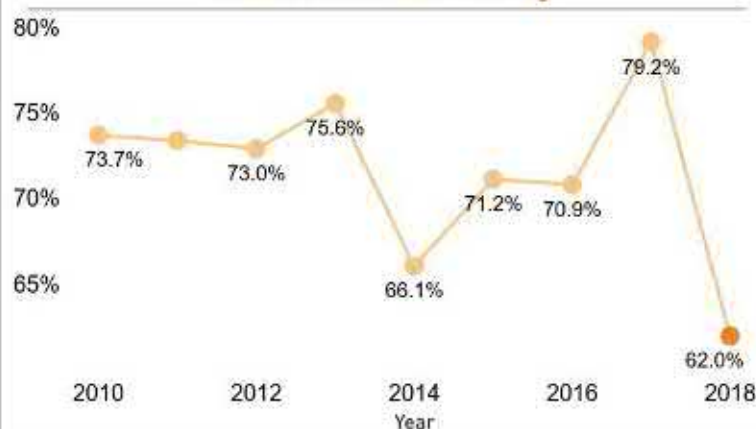
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



Access to Electricity

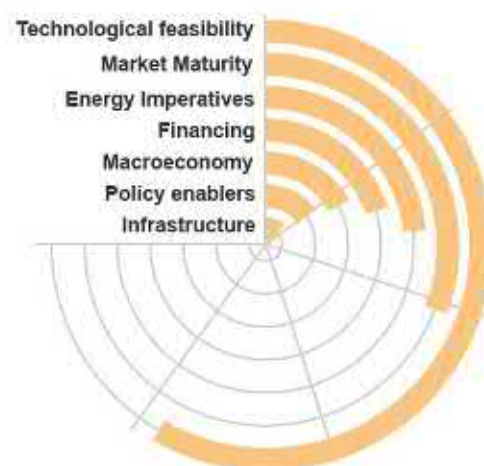


Ease of Doing Solar Classification



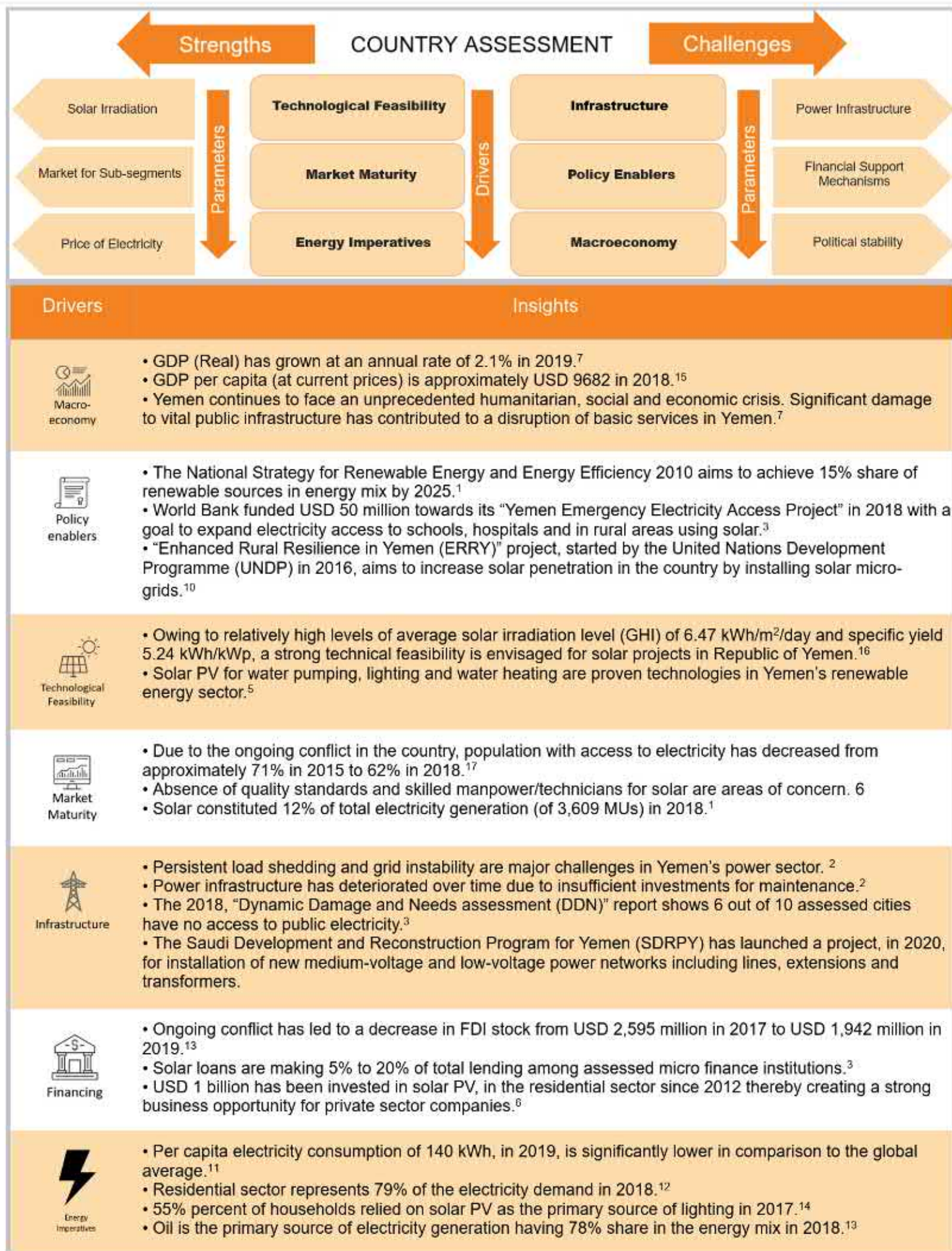
Potential

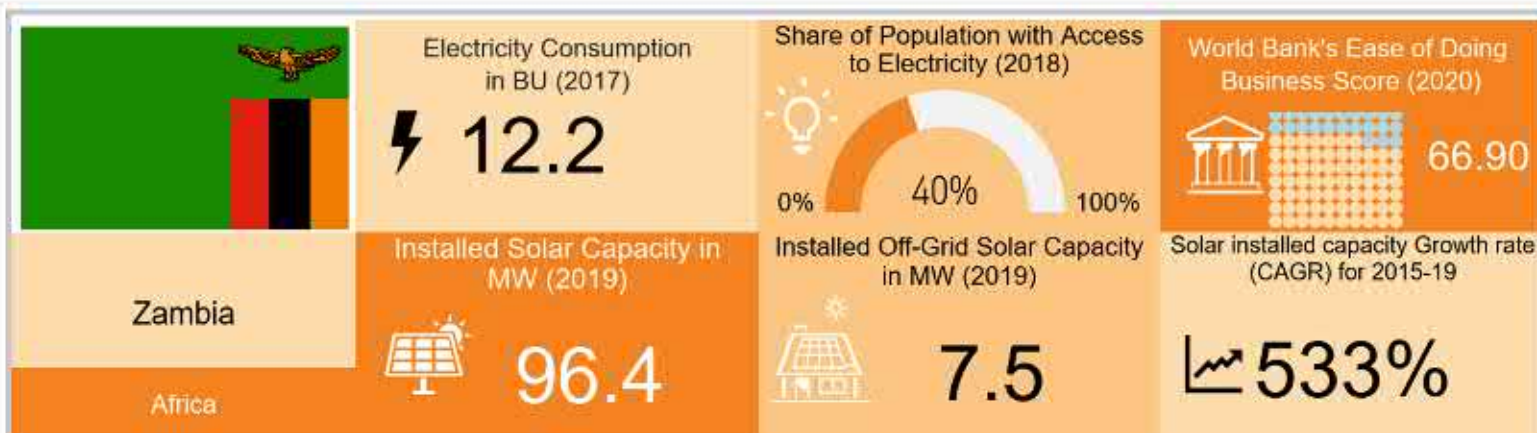
Performance against 7 Drivers



Sub-regional standing

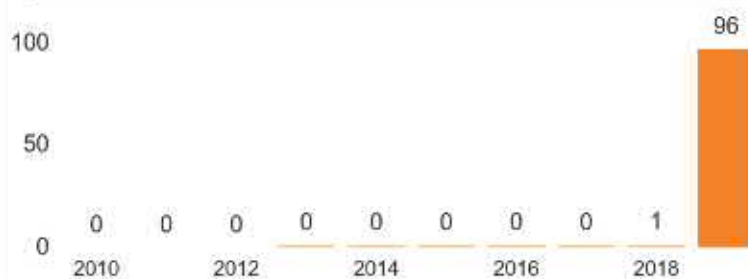




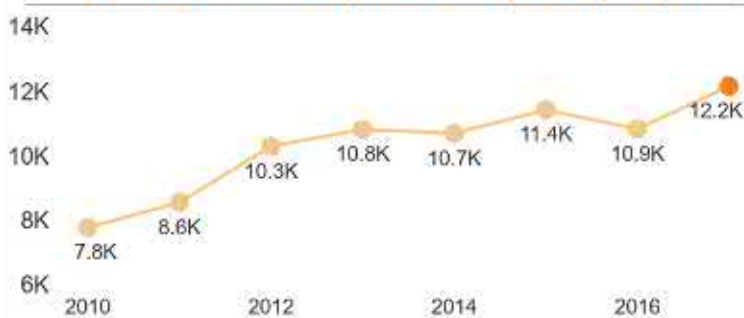


Power Trends

Cumulative Solar installed Capacity (MW)

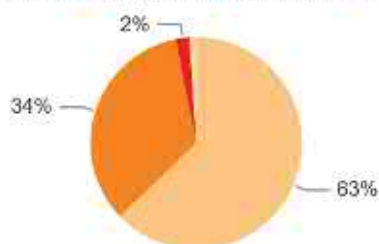


Overall Electricity Consumption (MU)

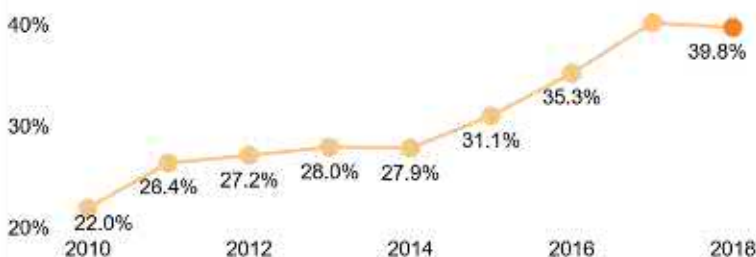


Consumer Mix

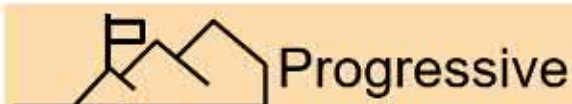
Commercial & Industrial Residential Agricultural Others



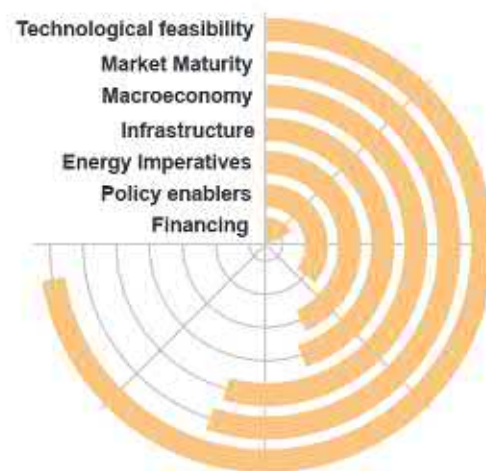
Access to Electricity



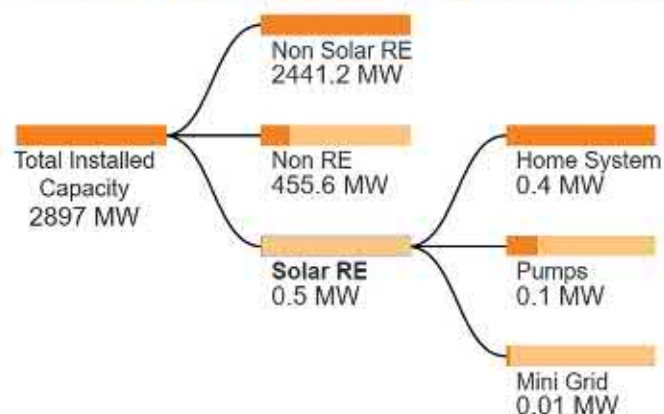
Ease of Doing Solar Classification



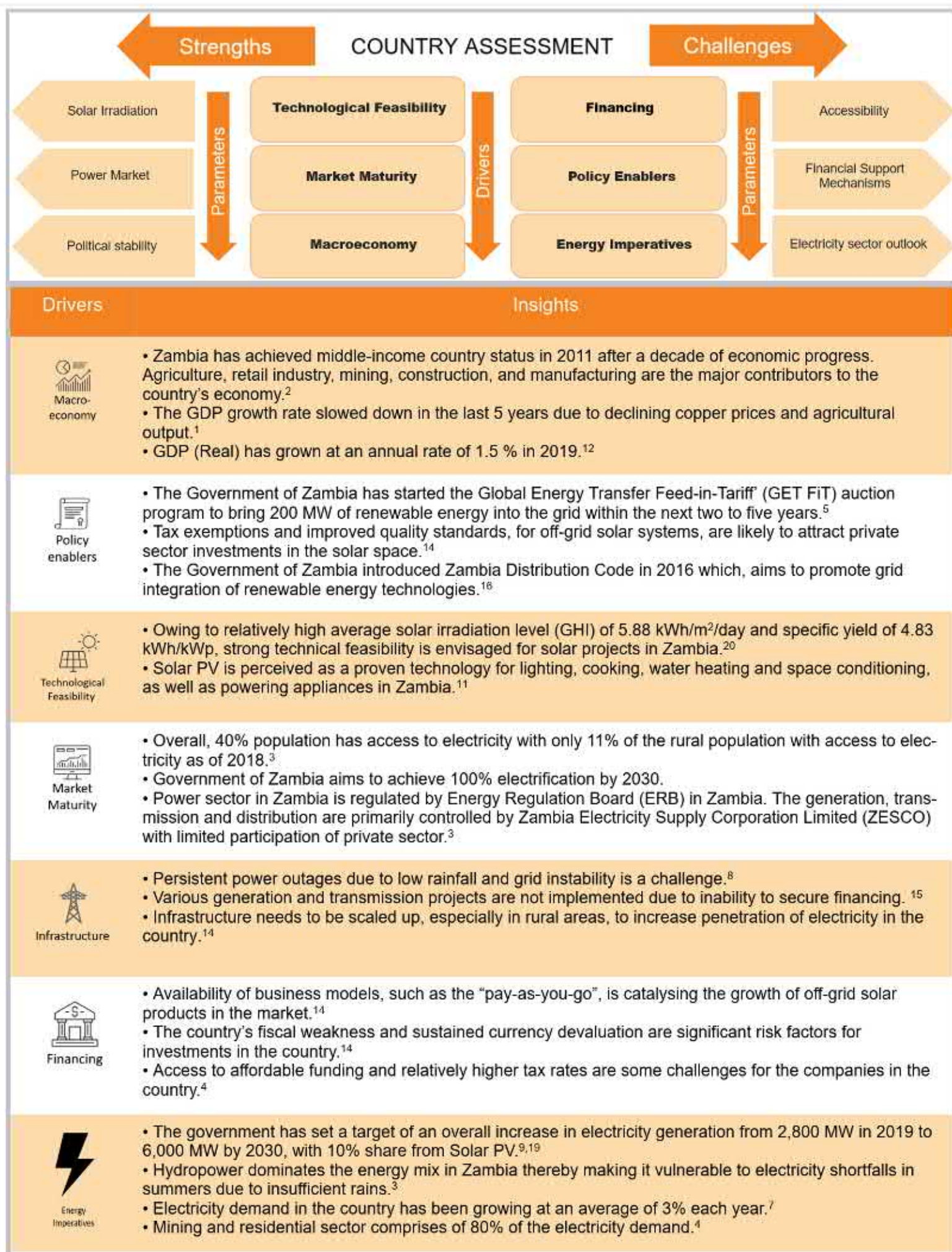
Performance against 7 Drivers

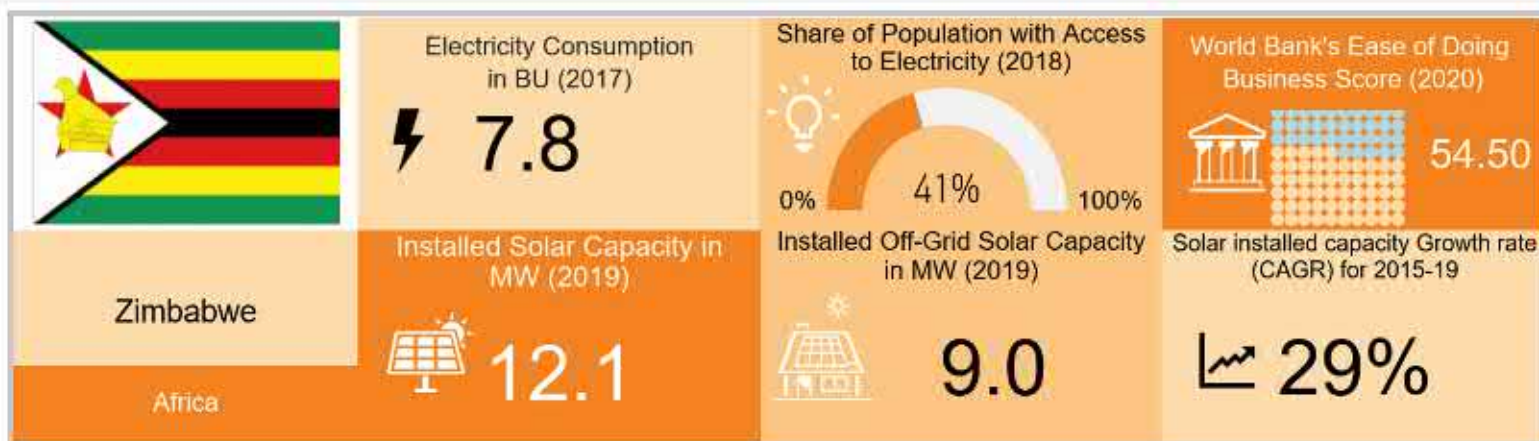


Installed Generation Capacity by Source



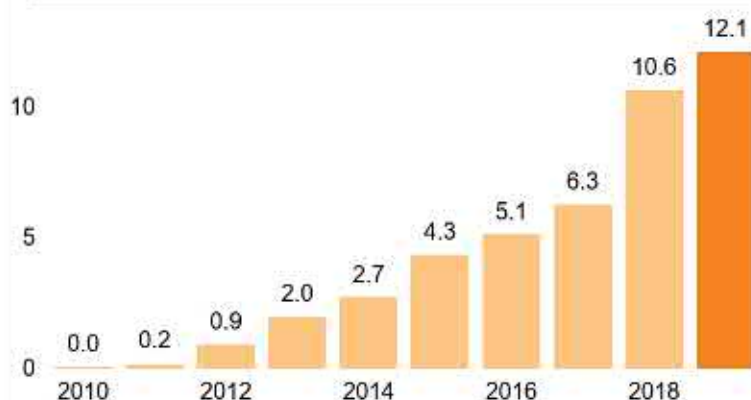
Non-Solar RE includes Wind, Hydro, Biomass, Geothermal & Marine;
Non-RE includes Coal, Natural Gas, Nuclear, Oil, etc.;
Other Solar includes Utility Scale Solar, Rooftop etc.;
Year: 2017.





Power Trends

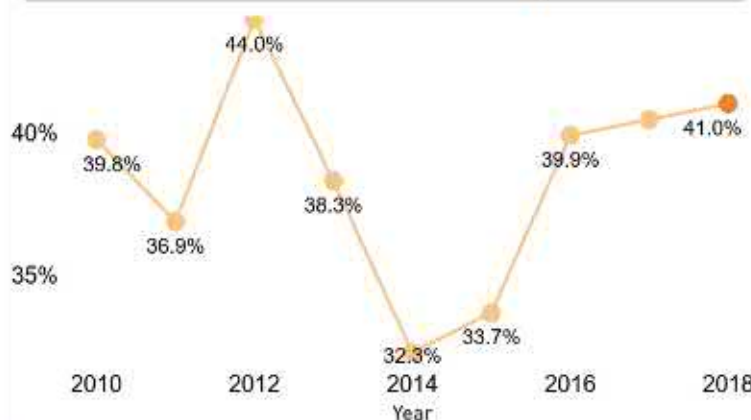
Cumulative Solar installed Capacity (MW)



Overall Electricity Consumption (MU)



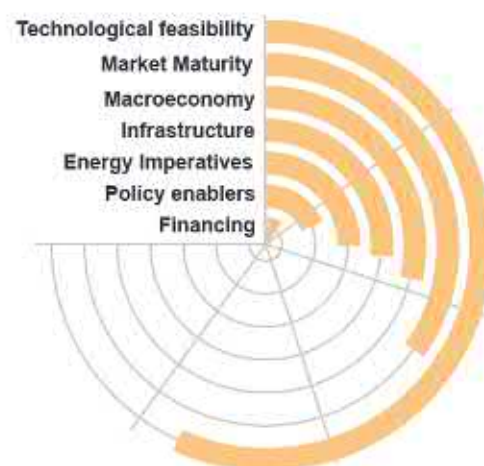
Access to Electricity



Ease of Doing Solar Classification



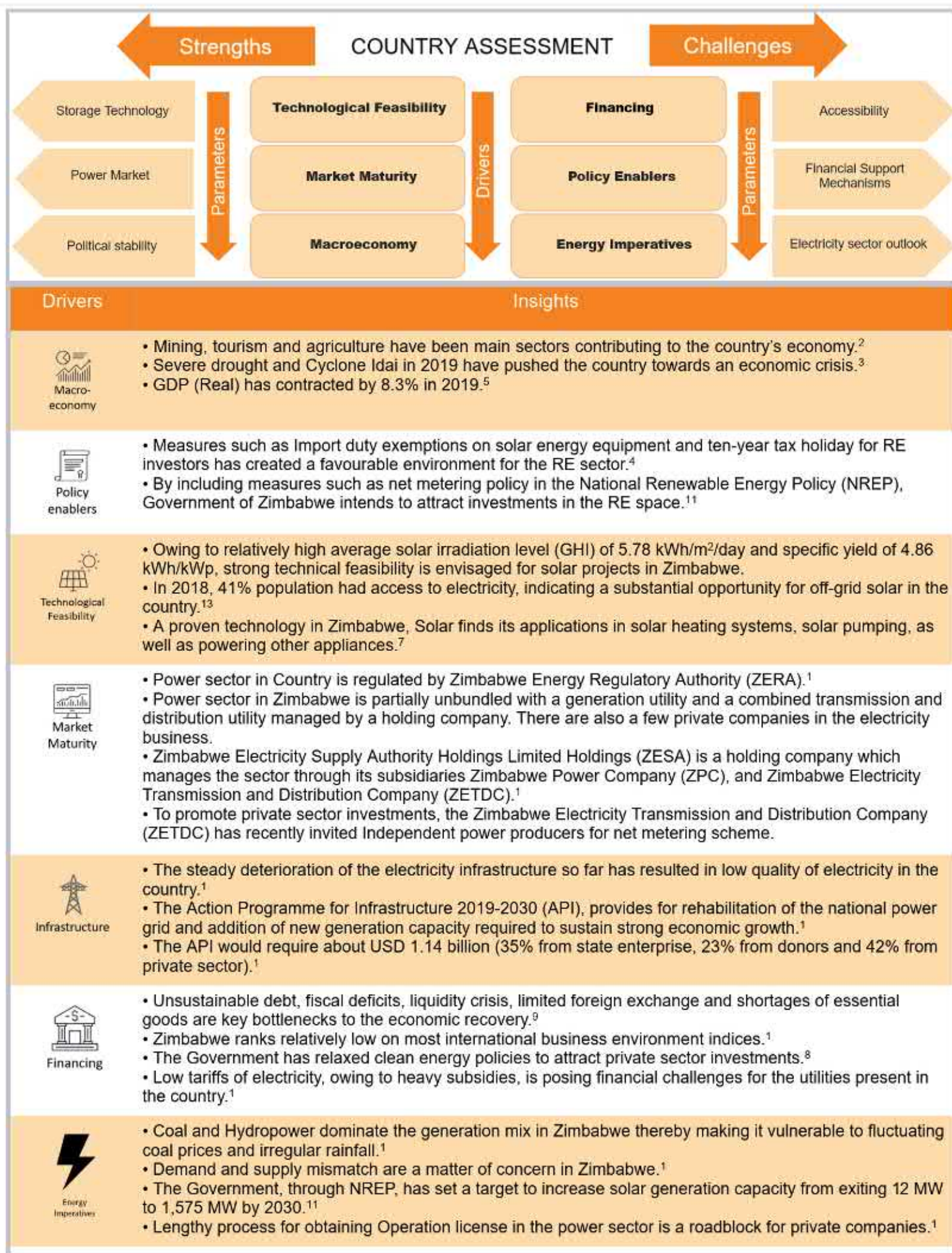
Performance against 7 Drivers



Sub-regional standing



Legend: Neutral (Yellow), Beignner (Orange), Progressive (Red), Influencer (Dark Red)





Appendix 1

Regional outcomes

Regional outcomes

Africa (42 countries)

Countries are arranged in alphabetical order under each classification.

EoDS 2020 classification	ISA member countries	EoDS 2020 classification	ISA member countries
Influencer	Algeria	Progressive	Mozambique
Influencer	Botswana	Progressive	Niger
Influencer	Burkina Faso	Progressive	Uganda
Influencer	Cape Verde	Progressive	Zambia
Influencer	Egypt	Progressive	Zimbabwe
Influencer	Ghana	Potential	Burundi
Influencer	Mali	Potential	Cameroon
Influencer	Mauritius	Potential	Chad
Influencer	Namibia	Potential	Comoros
Influencer	Nigeria	Potential	Democratic Republic of Congo
Influencer	Rwanda	Potential	Equatorial Guinea
Influencer	Senegal	Potential	Eritrea
Influencer	Seychelles	Potential	Gabonese Republic
Influencer	Tanzania	Potential	Guinea
Progressive	Benin	Potential	Guinea-Bissau
Progressive	Cote d'ivoire	Potential	Liberia
Progressive	Djibouti	Potential	Sao Tome and Principe
Progressive	Ethiopia	Potential	Somalia
Progressive	Gambia	Potential	South Sudan
Progressive	Madagascar	Potential	Sudan
Progressive	Malawi	Potential	Togolese Republic

Asia & Pacific (18 countries)

Countries are arranged in alphabetical order under each classification.

EoDS 2020 classification	ISA member countries	EoDS 2020 classification	ISA member countries
Achiever	India	Progressive	Kiribati
Achiever	Saudi Arabia	Progressive	Nauru
Achiever	United Arab Emirates	Progressive	Palau
Influencer	Cambodia	Progressive	Samoa
Influencer	Fiji	Progressive	Tonga
Influencer	Maldives	Potential	Myanmar
Influencer	Sri Lanka	Potential	Papua New Guinea
Influencer	Tuvalu	Potential	Vanuatu
Progressive	Bangladesh	Potential	Yemen

Latin America & Caribbean (20 countries)

Countries are arranged in alphabetical order under each classification.

EoDS 2020 classification	ISA member mcuntries	EoDS 2020 Classification	ISA member mountries
Achiever	Brazil	Influencer	Trinidad and Tobago
Influencer	Argentina	Progressive	Dominica
Influencer	Bolivia	Progressive	Grenada
Influencer	Costa Rica	Progressive	Paraguay
Influencer	Dominican Republic	Progressive	St. Lucia
Influencer	El Salvador	Progressive	Suriname
Influencer	Jamaica	Potential	Cuba
Influencer	Peru	Potential	Guyana
Influencer	Saint Kitts and Nevis	Potential	Haiti
Influencer	Saint Vincent and the Grenadines	Potential	Venezuela



Appendix 2

Driver wise assessment

1. Macroeconomy

S.no.	ISA member countries	S.no.	ISA member countries
1	India	41	Papua New Guinea
2	Brazil	42	Sri Lanka
3	United Arab Emirates	43	Ethiopia
4	Saudi Arabia	44	Palau
5	Botswana	45	Madagascar
6	Mauritius	46	Cape Verde
7	Peru	47	El Salvador
8	Namibia	48	Argentina
9	Tonga	49	Gambia
10	Fiji	50	Malawi
11	Rwanda	51	Comoros
12	Samoa	52	Nauru
13	Paraguay	53	Niger
14	Dominica	54	Equatorial Guinea
15	Kiribati	55	Egypt
16	St. Lucia	56	Cameroon
17	Grenada	57	Guinea-Bissau
18	Tanzania	58	Togolese Republic
19	Costa Rica	59	Sao Tome and Principe
20	Saint Kitts and Nevis	60	Zambia
21	Saint Vincent and the Grenadines	61	Mali
22	Dominican Republic	62	Guinea
23	Trinidad and Tobago	63	Gabonese Republic
24	Vanuatu	64	Myanmar
25	Guyana	65	Burundi
26	Bangladesh	66	Suriname
27	Ghana	67	Algeria
28	Tuvalu	68	Democratic Republic of the Congo
29	Cambodia	69	Haiti
30	Uganda	70	Chad
31	Senegal	71	Liberia
32	Bolivia	72	Zimbabwe
33	Djibouti	73	Mozambique
34	Cote d'Ivoire	74	South Sudan
35	Seychelles	75	Cuba
36	Maldives	76	Somalia
37	Jamaica	77	Eritrea
38	Burkina Faso	78	Venezuela
39	Benin	79	Yemen
40	Nigeria	80	Sudan

Note: Countries are arranged based on the scores in each driver category

2. Policy enablers

S.no.	ISA member countries	S.no.	ISA member countries
1	India	41	Cote d'ivoire
2	Argentina	42	Guyana
3	Dominican Republic	43	Benin
4	Brazil	44	Papua New Guinea
5	Trinidad and Tobago	45	Cambodia
6	Peru	46	Botswana
7	Jamaica	47	Tuvalu
8	Seychelles	48	Gambia
9	Ghana	49	Niger
10	Sri Lanka	50	Djibouti
11	Fiji	51	Togolese Republic
12	United Arab Emirates	52	Gabonese Republic
13	Burkina Faso	53	Madagascar
14	Nigeria	54	Kiribati
15	Algeria	55	Cameroon
16	Cape Verde	56	Guinea
17	Bolivia	57	Liberia
18	Palau	58	Ethiopia
19	Rwanda	59	Burundi
20	Senegal	60	Comoros
21	Mali	61	Democratic Republic of the Congo
22	Tanzania	62	Suriname
23	El Salvador	63	Zambia
24	Costa Rica	64	Venezuela
25	Saudi Arabia	65	Saint Kitts and Nevis
26	Mauritius	66	Eritrea
27	Mozambique	67	Zimbabwe
28	Malawi	68	Samoa
29	St. Lucia	69	Tonga
30	Saint Vincent and the Grenadines	70	Sao Tome and Principe
31	Grenada	71	Myanmar
32	Maldives	72	Chad
33	Egypt	73	Guinea-Bissau
34	Vanuatu	74	Equatorial Guinea
35	Bangladesh	75	Cuba
36	Haiti	76	Yemen
37	Dominica	77	Sudan
38	Uganda	78	Nauru
39	Namibia	79	South Sudan
40	Paraguay	80	Somalia

Note: Countries are arranged based on the scores in each driver category

3. Technological feasibility

S.no.	ISA member countries	S.no.	ISA member countries
1	Egypt	41	Brazil
2	Saudi Arabia	42	Tuvalu
3	Chad	43	Benin
4	Botswana	44	Argentina
5	United Arab Emirates	45	Jamaica
6	Somalia	46	Saint Vincent and the Grenadines
7	Mali	47	Burkina Faso
8	El Salvador	48	Burundi
9	Namibia	49	India
10	Yemen	50	Rwanda
11	Zimbabwe	51	Mauritius
12	Nauru	52	Ghana
13	Ethiopia	53	Guinea-Bissau
14	Senegal	54	Guinea
15	Gambia	55	Palau
16	Sudan	56	Costa Rica
17	Madagascar	57	Dominica
18	Cape Verde	58	St. Lucia
19	Tanzania	59	Grenada
20	South Sudan	60	Tonga
21	Niger	61	Samoa
22	Saint Kitts and Nevis	62	Trinidad and Tobago
23	Malawi	63	Myanmar
24	Bolivia	64	Cameroon
25	Uganda	65	Sri Lanka
26	Haiti	66	Democratic Republic of the Congo
27	Maldives	67	Bangladesh
28	Seychelles	68	Guyana
29	Kiribati	69	Togolese Republic
30	Eritrea	70	Paraguay
31	Dominican Republic	71	Equatorial Guinea
32	Cuba	72	Comoros
33	Djibouti	73	Cambodia
34	Algeria	74	Gabonese Republic
35	Mozambique	75	Cote d'ivoire
36	Peru	76	Fiji
37	Nigeria	77	Vanuatu
38	Venezuela	78	Liberia
39	Zambia	79	Papua New Guinea
40	Suriname	80	Sao Tome and Principe

Note: Countries are arranged based on the scores in each driver category

4. Market maturity

S.no.	ISA member countries	S.no.	ISA member countries
1	Tonga	41	Dominica
2	El Salvador	42	Cuba
3	Maldives	43	Grenada
4	Seychelles	44	Paraguay
5	Algeria	45	Zimbabwe
6	United Arab Emirates	46	Gabonese Republic
7	Brazil	47	Uganda
8	Costa Rica	48	Ethiopia
9	Saudi Arabia	49	Benin
10	Egypt	50	Guyana
11	Argentina	51	Zambia
12	Dominican Republic	52	Fiji
13	Mauritius	53	Tanzania
14	Jamaica	54	Yemen
15	Suriname	55	Guinea-Bissau
16	Bolivia	56	Madagascar
17	Peru	57	Niger
18	Cape Verde	58	Malawi
19	India	59	Burkina Faso
20	Sri Lanka	60	Comoros
21	Cambodia	61	Namibia
22	Bangladesh	62	Vanuatu
23	Ghana	63	Myanmar
24	Tuvalu	64	Sao Tome and Principe
25	Botswana	65	Equatorial Guinea
26	Senegal	66	Sudan
27	Cote d'ivoire	67	Cameroon
28	Samoa	68	Djibouti
29	Kiribati	69	Papua New Guinea
30	Gambia	70	Togolese Republic
31	Rwanda	71	Eritrea
32	Nauru	72	Guinea
33	Palau	73	Haiti
34	Nigeria	74	Somalia
35	Saint Kitts and Nevis	75	Mozambique
36	Saint Vincent and the Grenadines	76	South Sudan
37	St. Lucia	77	Liberia
38	Trinidad and Tobago	78	Burundi
39	Venezuela	79	Democratic Republic of the Congo
40	Mali	80	Chad

Note: Countries are arranged based on the scores in each driver category

5. Infrastructure

S.no.	ISA member countries	S.no.	ISA member countries
1	India	41	Peru
2	Brazil	42	Cuba
3	United Arab Emirates	43	Madagascar
4	Mauritius	44	Guinea-Bissau
5	Saudi Arabia	45	Saint Vincent and the Grenadines
6	Argentina	46	Egypt
7	Ghana	47	Dominica
8	Sri Lanka	48	Kiribati
9	Nigeria	49	St. Lucia
10	Zambia	50	Grenada
11	El Salvador	51	Ethiopia
12	Rwanda	52	Fiji
13	Cote d'ivoire	53	Cameroon
14	Zimbabwe	54	Burundi
15	Malawi	55	Maldives
16	Togolese Republic	56	Venezuela
17	Djibouti	57	Palau
18	Nauru	58	Seychelles
19	Uganda	59	Equatorial Guinea
20	Namibia	60	Bolivia
21	Benin	61	Haiti
22	Costa Rica	62	Samoa
23	Tuvalu	63	Gabonese Republic
24	Tanzania	64	Algeria
25	Bangladesh	65	Myanmar
26	Botswana	66	Sudan
27	Dominican Republic	67	Comoros
28	Jamaica	68	South Sudan
29	Paraguay	69	Guyana
30	Mozambique	70	Somalia
31	Gambia	71	Vanuatu
32	Tonga	72	Democratic Republic of the Congo
33	Burkina Faso	73	Mali
34	Guinea	74	Papua New Guinea
35	Cambodia	75	Eritrea
36	Trinidad and Tobago	76	Niger
37	Cape Verde	77	Sao Tome and Principe
38	Saint Kitts and Nevis	78	Suriname
39	Liberia	79	Yemen
40	Senegal	80	Chad

Note: Countries are arranged based on the scores in each driver category

6. Financing

S.no.	ISA member countries	S.no.	ISA member countries
1	Mauritius	41	Botswana
2	United Arab Emirates	42	Togolese Republic
3	Saint Kitts and Nevis	43	Haiti
4	Fiji	44	Cote d'Ivoire
5	Cambodia	45	Comoros
6	Cape Verde	46	Sao Tome and Principe
7	Bolivia	47	Burkina Faso
8	Samoa	48	Gabonese Republic
9	Brazil	49	Mozambique
10	El Salvador	50	Burundi
11	Grenada	51	Mali
12	Costa Rica	52	Nigeria
13	Trinidad and Tobago	53	Uganda
14	St. Lucia	54	Equatorial Guinea
15	Saudi Arabia	55	Rwanda
16	Vanuatu	56	Benin
17	India	57	Ghana
18	Tonga	58	Niger
19	Seychelles	59	Myanmar
20	Dominica	60	Argentina
21	Saint Vincent and the Grenadines	61	Sudan
22	Sri Lanka	62	Papua New Guinea
23	Namibia	63	Tanzania
24	Guyana	64	Cameroon
25	Dominican Republic	65	Guinea
26	Egypt	66	Zambia
27	Peru	67	Gambia
28	Paraguay	68	Liberia
29	Bangladesh	69	Zimbabwe
30	Maldives	70	Ethiopia
31	Jamaica	71	Cuba
32	Algeria	72	Malawi
33	Djibouti	73	Madagascar
34	Nauru	74	Guinea-Bissau
35	Tuvalu	75	Chad
36	Kiribati	76	Venezuela
37	Palau	77	South Sudan
38	Suriname	78	Democratic Republic of the Congo
39	Senegal	79	Eritrea
40	Yemen	80	Somalia

Note: Countries are arranged based on the scores in each driver category

7. Energy imperatives

S.no.	ISA member countries	S.no.	ISA member countries
1	India	41	Cameroon
2	United Arab Emirates	42	Equatorial Guinea
3	Saudi Arabia	43	Democratic Republic of the Congo
4	Paraguay	44	Nauru
5	Trinidad and Tobago	45	South Sudan
6	Algeria	46	Botswana
7	Guinea	47	Burkina Faso
8	Brazil	48	El Salvador
9	Myanmar	49	Uganda
10	Ethiopia	50	Djibouti
11	Sudan	51	Benin
12	Suriname	52	Niger
13	Bangladesh	53	Jamaica
14	Argentina	54	Comoros
15	Egypt	55	Gambia
16	Madagascar	56	Cape Verde
17	Cambodia	57	Ghana
18	Zambia	58	Grenada
19	Costa Rica	59	Burundi
20	Zimbabwe	60	St. Lucia
21	Seychelles	61	Tuvalu
22	Rwanda	62	Guyana
23	Mozambique	63	Chad
24	Peru	64	Haiti
25	Mauritius	65	Eritrea
26	Sri Lanka	66	Papua New Guinea
27	Mali	67	Guinea-Bissau
28	Tanzania	68	Samoa
29	Dominican Republic	69	Palau
30	Cote d'Ivoire	70	Malawi
31	Bolivia	71	Maldives
32	Togolese Republic	72	Tonga
33	Sao Tome and Principe	73	Kiribati
34	Namibia	74	Vanuatu
35	Yemen	75	Liberia
36	Senegal	76	Saint Vincent and the Grenadines
37	Gabonese Republic	77	Dominica
38	Fiji	78	Somalia
39	Saint Kitts and Nevis	79	Venezuela
40	Nigeria	80	Cuba

Note: Countries are arranged based on the scores in each driver category



Appendix 3

References

Algeria

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