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Review of the Fiji National Energy Policy

Strategic Action Plan

October 2013

**Submitted to GIZ Secretariat of the
Pacific Community by:**

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Abbreviations and acronyms

BMZ	German Federal Ministry on Economic Cooperation and Development
CC	Commerce Commission
CCCPIR	Coping with Climate Change in the Pacific Island Region
DoE	Department of Energy
DoT	Department of Transport
EE	Energy Efficiency
ESCO	Energy Service Company
FDI	Foreign Direct Investment
FEA	Fiji Electricity Authority
FJD	Fiji Dollar
GIZ	Deutsche Gesellschaft für Internationale Zusammenarbeit
GDP	Gross Domestic Product
GWh	Gigawatt hours
IEA	International Energy Association
IPP	Independent Power Producer (private single purpose investor)
kWh	Kilowatt hours
L	Litres
LPG	Liquified petroleum gas
MJ	Megajoules
NECC	National Energy Coordination Committee
NECF	National Energy Consultative Forum
NEP	National Energy Policy
NEF	National Energy Forum
NTCF	National Transport Consultative Forum
PPA	Power Purchase Agreement
PPP	Public Private Partnership
PCCPP	Peoples Charter for Change, Peace and Progress
RIAs	Regulatory Impact Assessments
RBF	Reserve Bank of Fiji
RE	Renewable Energy
RESCO	Renewable Energy Service Company
RDSSD	Roadmap for Democracy and Sustainable Socio - Economic Development
SOE	State Owned Enterprise
SE4ALL	Sustainable Energy for ALL (UN Initiative)
SPC	Secretariat of the Pacific Community
UNDP	United Nations Development Program

Preface

This Strategic Action Plan has been prepared by a team of consultants under the *Review of the Fiji National Energy Policy* project with the support of the Department of Energy. The consultants are contracted under the *Coping with Climate Change in the Pacific Island Region* (CCCPIR) programme, which is funded by GIZ and the United Nations Development Programme (UNDP), and jointly implemented by the Secretariat of the Pacific Community (SPC) and GIZ.

STRATEGIC ACTION PLAN

October 2013

Introduction

This Strategic Action Plan sets out the key actions for the period 2013 to 2020 that are required by different stakeholders to implement the new National Energy Policy 2013. The plan is applicable to all stakeholders in the energy sector, although most actions are led by the Department of Energy (DoE), as the public sector institution with primary responsibility for planning and policy development. The Strategic Action Plan will be reviewed and updated on a yearly basis.

Policy areas

The policy areas used to categorise strategic actions align with the National Energy Policy (NEP), with governance and institutional arrangements treated as a separate policy area. Rather than repeat content of the NEP in this Strategic Action Plan, we refer to the NEP for full policy statements and assessments of the current situation (by policy area).

Strategic actions

This Strategic Action Plan should be constantly evolving through regular updates. This means that we do not need to pre-empt every single detailed action between now and 2020, but rather focus on the actions required in the next few years. This Strategic Action Plan still sets out the key actions to be taken beyond that, but in broader terms; expecting that detail will be added closer to the time.

Many of the actions are separated for maximum clarity, but in practice will be combined (for example into a single technical assistance project).

Many of the indicative timeframes are clearly dependent on each other and therefore they will need to be updated regularly based on progress – although it is important that the implementing agencies do not let actions get delayed beyond 2020 and never implemented (as has been observed with past action plans).

Estimation of budgets

The estimated budget is very approximate and for time/staff costs only. It excludes any cost of equipment and materials. All values are given in 2013 Fiji Dollars. The estimated budget is split into two components for some actions:

- ❑ The cost of Government agency/institution staff time: A cost of 1,600 FJD/month is assumed, based on the current approximate average pay scale at DoE.
- ❑ The cost of technical assistance (TA): A cost of 45,000 FJD/month is assumed, based on an approximate monthly rate of 25,000 USD/month including expenses.

In practice, it is expected that technical assistance will be provided by regional organisations such as the Secretariat of the Pacific Community or funded through grants by development partners. It is also possible that if the institutional restructuring of DoE is very successful, that it will be able to carry out many of the actions in-house (without technical assistance).

Policy area I. Governance and institutional arrangements

Full policy statements

Refer to National Energy Policy

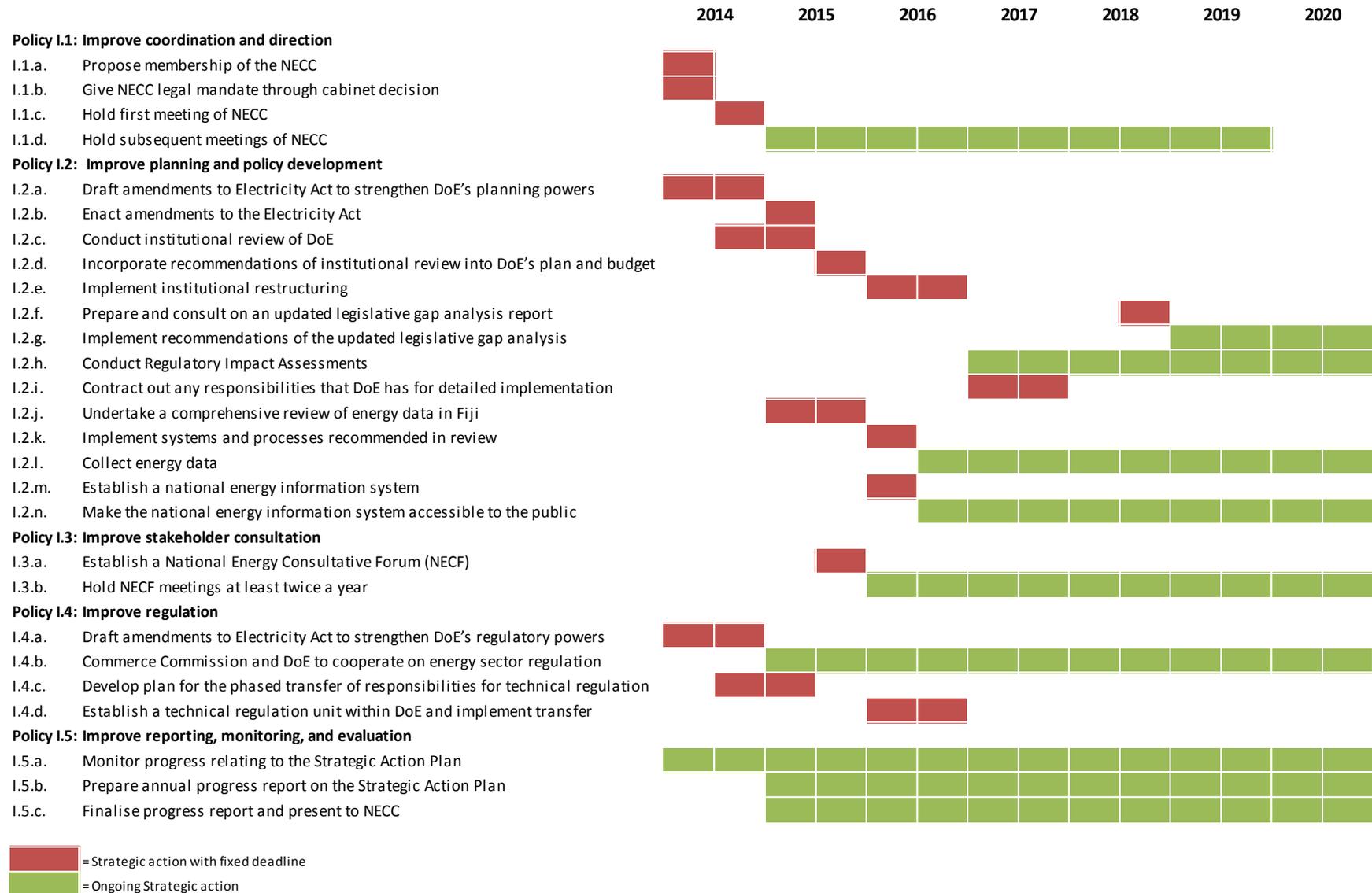
Summary of current situation

Refer to National Energy Policy and SE4ALL report

Targets specific to policy area

None

Summary of timeframes



Strategic actions

Policy I.1: Improve coordination and direction						
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget	
		Lead agency	Supporting agency(ies)			
<p><i>Action:</i> I.1.a. Propose membership of the National Energy Coordination Committee (NECC), draft its terms of reference, including the role of DoE as secretariat, and present to cabinet</p> <p><i>Baseline:</i> No committee exists, role only defined at high level in NEP</p> <p><i>Links:</i></p>	NECC terms of reference presented to cabinet	DoE	Cabinet	By February 2014	Govt: \$400	
<p><i>Action:</i> I.1.b. Give NECC (and DoE as secretariat) legal mandate through cabinet decision/decree</p> <p><i>Baseline:</i> No committee exists, legal powers do not exist in any other form</p> <p><i>Links:</i> I.1.a. Propose membership of the NECC</p>	NECC established by cabinet decision/decree	Cabinet	DoE	By June 2014	NA	
<p><i>Action:</i> I.1.c. Hold first meeting of NECC and set agenda for first year</p> <p><i>Baseline:</i> No committee exists, no agenda set</p> <p><i>Links:</i> I.1.b. Give NECC legal mandate through cabinet decision</p>	First NECC meeting held	NECC	DoE	By August 2014	Govt: \$800	
<p><i>Action:</i> I.1.d. Hold subsequent meetings of NECC at least two times per year</p> <p><i>Baseline:</i> No committee exists, no meetings held</p> <p><i>Links:</i> I.1.c. Hold first meeting of NECC</p>	Number of NECC meetings held per year	NECC	DoE	From August 2014 onwards	Govt: \$1,600/year	

Policy I.2: Improve planning and policy development					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> I.2.a. Draft amendments to Electricity Act to strengthen DoE's legal powers with respect to sector planning (including master plans and IPP frameworks) and presented to cabinet</p> <p><i>Baseline:</i> Electricity Act dated and does not confer any powers on DoE</p> <p><i>Links:</i> I.1.b. Give NECC and DoE legal mandate through cabinet decision</p>	Amendments approved by NECC and presented to Cabinet	DoE (with TA)	NECC Solicitor-General/Ministry of Justice	By December 2014	Govt: \$800 TA: \$45,000
<p><i>Action:</i> I.2.b. Enact amendments to the Electricity Act</p> <p><i>Baseline:</i> Electricity Act dated and in need of updating</p> <p><i>Links:</i> I.2.a. Draft amendments to Electricity Act to strengthen DoE's planning powers</p>	Amended Electricity Act enacted	Cabinet	DoE Solicitor-General/Ministry of Justice	By February 2015	NA
<p><i>Action:</i> I.2.c. Conduct institutional review of DoE in light of new responsibilities</p> <p><i>Baseline:</i> Existing structure does not have focus on planning policy development</p> <p><i>Links:</i> I.2.b. Enact amendments to the Electricity Act</p>	Institutional review completed	DoE (with TA)	Ministry of Transport, Works and Public Utilities	By June 2015	Govt: \$1,600 TA: \$45,000
<p><i>Action:</i> I.2.d. Incorporate recommendations of institutional review into DoE's plan and budget</p> <p><i>Baseline:</i> May require a significant increase in DoE's budget</p> <p><i>Links:</i> I.2.c. Conduct institutional review of DoE</p>	Annual budget submitted	DoE	Ministry of Transport, Works and Public Utilities	By December 2015	Govt: \$1,600
<p><i>Action:</i> I.2.e. Implement institutional restructuring, including hiring new staff as needed and conducting training</p>	New staff hired DoE units	DoE	Ministry of Transport, Works and Public	By December 2016	Unknown

<i>Baseline:</i>	May require a change in the expertise currently at DoE and reorganization of units within DoE	restructured		Utilities		
<i>Links:</i>	I.2.d. Incorporate recommendations of institutional review into DoE's plan and budget					
<i>Action:</i>	I.2.f. Prepare and consult on an updated legislative gap analysis report post restructuring of DoE and implementation of short-term activities and present to NECC					
<i>Baseline:</i>	Legislative gap analysis proposes a two phase approach, the first of which is to be carried out immediately, the second phase towards the end of the SAP timeframe	Report approved by NECC and published	DoE (with TA)	NECC Solicitor-General/Ministry of Justice Energy sector stakeholders (through NECF)	By December 2018	Govt: \$1,600 TA: \$45,000
<i>Links:</i>	I.1.b. Give NECC and DoE legal mandate through cabinet decision I.2.b. Enact amendments to the Electricity Act					
<i>Action:</i>	I.2.g. Implement recommendations of the updated legislative gap analysis					
<i>Baseline:</i>	Original legislative gap analysis prepared as part of NEP. Second phase still to be implemented.	New legislation drafted and enacted New regulations issued	DoE	Solicitor-General/Ministry of Justice NECC	By December 2018	Unknown
<i>Links:</i>	I.2.f. Prepare and consult on an updated legislative gap analysis report					
<i>Action:</i>	I.2.h. Conduct Regulatory Impact Assessments (RIAs) on specific actions and programmes under the NEP					
<i>Baseline:</i>	Policies and actions often not founded on rigorous analysis	Number of RIAs prepared	DoE	NECC	From December 2016 onwards	Govt: \$1,600/year
<i>Links:</i>	I.1.b. Give NECC and DoE legal mandate through cabinet decision I.2.b. Enact amendments to the Electricity Act					
<i>Action:</i>	I.2.i. Contract out any responsibilities that DoE has for detailed implementation					
		Number of	DoE		By December	Govt: \$3,200

	<p>activities, such as maintenance of off-grid systems, conducting energy audits, and bio-fuels development</p> <p><i>Baseline:</i> Most implementation activities are already contracted out, but some are still done in-house</p> <p><i>Links:</i> I.2.b. Enact amendments to the Electricity Act</p>	contracts awarded			2017	
<p><i>Action:</i> I.2.j. Undertake a comprehensive review of energy data in Fiji and recommend new systems and processes for collecting data and preparing energy forecasts</p> <p><i>Baseline:</i> Energy information and data is fragmented and incomplete</p> <p><i>Links:</i> III.4.a. Prepare and consult on a review of past off-grid rural electrification projects IV.1.a. Begin a comprehensive renewable energy resources mapping exercise</p>	Review of Fiji energy data completed	DoE (with TA)	<p>Bureau of Statistics</p> <p>FEA</p> <p>Department of Environment</p> <p>Mineral Resource Department</p> <p>Climate Change Unit</p> <p>Fiji Commerce Commission</p> <p>Land Transport Authority</p> <p>Maritime Safety Authority of Fiji</p>	By December 2015	Govt: \$1,600 TA: \$45,000	
<p><i>Action:</i> I.2.k. Implement systems and processes recommended in review with respect to collecting energy data</p> <p><i>Baseline:</i> There are few systems in place with respect to the systematic collection of energy data</p> <p><i>Links:</i> III.4.e. Implement monitoring framework IV.1.e. Update inventory on annual basis VI.2.a. Collect data on fuel VII.3.a. Collect demand side energy data</p>	System of collecting energy data established	DoE		By June 2016	Govt: \$4,800	
<p><i>Action:</i> I.2.1. Collect energy data, including through the Household Income and Expenditure</p>	Number of data	DoE	Bureau of	From June	Govt:	

<p><i>Baseline:</i></p> <p><i>Links:</i></p>	<p>Surveys</p> <p>Some energy related questions were in previous surveys, but can be improved and added to in order to provide more detailed and accurate results</p> <p>III.4.e. Implement monitoring framework</p> <p>IV.1.e. Update inventory on annual basis</p> <p>VI.2.a. Collect data on fuel</p> <p>VII.3.a. Collect demand side energy data</p>	<p>points collected</p>		<p>Statistics</p>	<p>2016 onwards</p>	<p>\$19,200/year</p>
<p><i>Action:</i></p> <p><i>Baseline:</i></p> <p><i>Links:</i></p>	<p>I.2.m. Establish a national energy information system where all collected energy information is stored.</p> <p>No national energy information system exists</p> <p>III.4.e. Implement monitoring framework</p> <p>IV.1.e. Update inventory on annual basis</p> <p>VI.2.a. Collect data on fuel</p> <p>VII.3.a. Collect demand side energy data</p>	<p>Information system created</p> <p>Information system populated</p>	<p>DoE (with TA)</p>	<p>NECC</p>	<p>By June 2016</p>	<p>Govt: \$1,600</p> <p>TA: \$15,000</p>
<p><i>Action:</i></p> <p><i>Baseline:</i></p> <p><i>Links:</i></p>	<p>I.2.n. Make the national energy information system accessible to the public, by downloading it from DoE's website</p> <p>DoE does not make energy information available to the public, unless particular requests are made</p> <p>III.4.e. Implement monitoring framework</p> <p>IV.1.e. Update inventory on annual basis</p> <p>VI.2.a. Collect data on fuel</p> <p>VII.3.a. Collect demand side energy data</p>	<p>Information system published on DoE's website</p>	<p>DoE</p>		<p>From June 2016 onwards</p>	<p>Govt: \$400/year</p>

Policy I.3: Improve stakeholder consultation					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> I.3.a. Establish a National Energy Consultative Forum (NECF) and hold its first meeting</p> <p><i>Baseline:</i> No such forum exists in the energy sector</p> <p><i>Links:</i></p>	NECF first meeting held	DoE	NECC Energy sector stakeholders (through NECF)	By December 2015	Govt: \$4,800
<p><i>Action:</i> I.3.b. Hold NECF meetings at least twice a year to consult with stakeholders on energy sector issues and progress with respect to the NEP</p> <p><i>Baseline:</i> Stakeholder consultations are carried out on an ad-hoc basis</p> <p><i>Links:</i> I.3.a. Establish a NECF</p>	Number of NECF meetings held per year Number of participants at NECF meetings	DoE	Energy sector stakeholders (through NECF)	From December 2015 onwards	Govt: \$4,800/year

Policy I.4: Improve regulation					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> I.4.a. Draft amendments to Electricity Act to give DoE legal power with respect to technical regulation of the electricity sector</p> <p><i>Baseline:</i> Electricity Act dated and does not confer any powers on DoE</p> <p><i>Links:</i></p>	Amendments approved by NECC and presented to Cabinet	DoE (with TA)	NECC Solicitor-General/Ministry of Justice	By December 2014	Govt: \$800 TA: \$15,000
<p><i>Action:</i> I.4.b. Commerce Commission and DoE to cooperate on energy sector regulation</p>	Number of	Commerce	DoE	From	Govt:

<p>through regular meetings during electricity price reviews, development of an IPP framework, and fuel price reviews. DoE will provide input from an energy sector policy and planning perspective, as well as contribute detailed technical expertise with respect to the electricity sector</p> <p><i>Baseline:</i> Limited involvement of DoE in energy sector regulation</p> <p><i>Links:</i> II.3.b. Implement new multi-year regulatory contract</p>	meetings held	Commission	Regulated entities	February 2015 onwards	\$19,200/year
<p>I.4.c. Develop plan for the phased transfer of responsibilities for technical regulation (as well as IPP and small-scale generation frameworks) from FEA to DOE, detailing transfer of staff as necessary</p> <p><i>Baseline:</i> All technical regulation functions managed by FEA</p> <p><i>Links:</i> I.2.e. Implement institutional restructuring</p>	Transfer plan complete	Ministry of Transport, Works and Public Utilities	DoE FEA	By June 2015	Govt: \$1,600 TA: \$15,000
<p>I.4.d. Establish a technical regulation unit within DoE and implement transfer of responsibilities from FEA to DoE</p> <p><i>Baseline:</i> DoE does not have expertise to manage technical regulation</p> <p><i>Links:</i> I.4.c. Develop plan for the phased transfer of responsibilities for technical regulation</p>	Number of staff transferred	Ministry of Transport, Works and Public Utilities	DoE FEA	By December 2016	Unknown

Policy I.5: Improve reporting, monitoring, and evaluation					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting		

			agency(ies)		
<p><i>Action:</i> I.5.a. Monitor progress relating to the Strategic Action Plan</p> <p><i>Baseline:</i> There was little monitoring of progress with respect to the 2006 Strategic Action Plan</p> <p><i>Links:</i> I.1.b. Give NECC and DoE legal mandate through cabinet decision</p>	<p>Number of strategic actions completed</p> <p>Number of strategic actions not completed</p> <p>Number of strategic actions updated</p>	DoE	NECC	From December 2013 onwards	Govt: \$1,600 per year
<p><i>Action:</i> I.5.b. Prepare annual progress report on the Strategic Action Plan, present draft at NECF</p> <p><i>Baseline:</i> Stakeholders not updated on progress relating to NEP/SAP</p> <p><i>Links:</i> I.5.a. Monitor progress relating to the Strategic Action Plan</p>	<p>Number of progress reports presented to NECF</p>	DoE	Energy sector stakeholders (NECF)	From December 2014 onwards	Govt: \$800/year
<p><i>Action:</i> I.5.c. Finalise progress report and present to NECC</p> <p><i>Baseline:</i> No committee exists, no progress reports presented</p> <p><i>Links:</i> I.5.b. Prepare annual progress report on the Strategic Action Plan</p>	<p>Number of progress reports approved by NECC</p>	DoE	NECC	From February 2014 onwards	Govt: \$800/year

Policy area II. Grid-based power supply

Full policy statements

Refer to National Energy Policy

Summary of current situation

Refer to National Energy Policy and SE4ALL report

Targets specific to policy area

- ❑ Percentage of grid-based electricity generation from renewables = 81% by 2020
- ❑ Percentage of electricity generated by privately owned independent power producers = 23% by 2020
- ❑ Percentage of population with electricity access = 100% by 2020
- ❑ Energy intensity (power consumption per unit of GDP in kWh/FJD) = 0.215 by 2020

Summary of timeframes

Policy II.1: Increase private sector investment in large-scale electricity generation

- II.1.a. Prepare and consult on a review international approaches to procurement
- II.1.b. Prepare and consult on a set of PPA principles
- II.1.c. Implement the recommended procurement process
- II.1.d. Develop a grid code
- II.1.e. Procure and achieve financial close of a new renewable energy IPP

Policy II.2: Increase private sector investment in small-scale grid-connected renewable

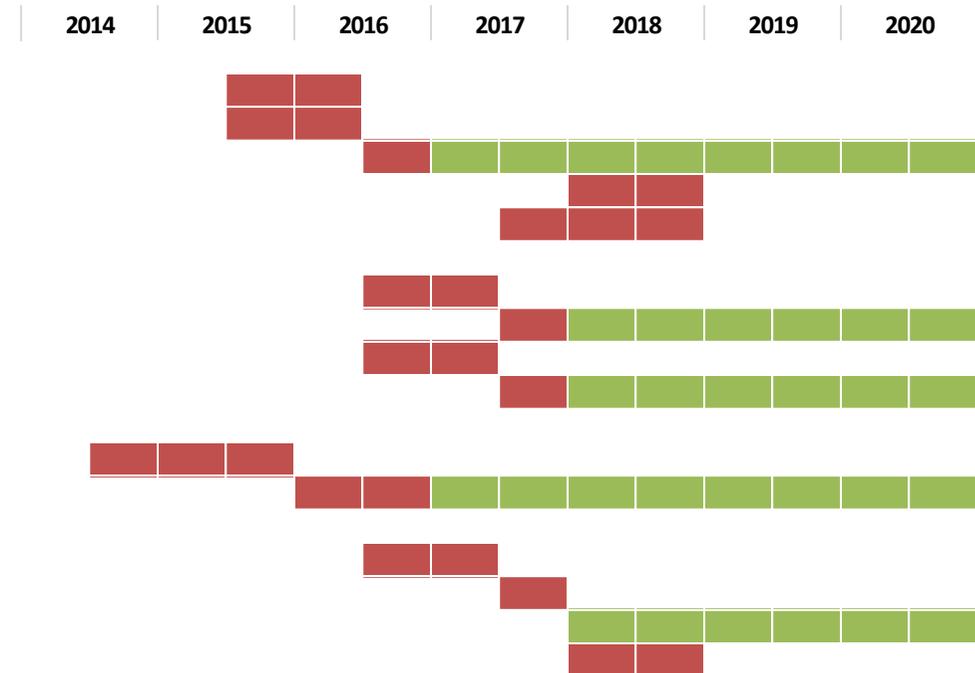
- II.2.a. Prepare and consult on mechanisms for investment in small-scale generation
- II.2.b. Implement recommended mechanism
- II.2.c. Prepare and consult on a review of approaches to net metering
- II.2.d. Implement recommended mechanism

Policy II.3: Strengthen regulation of the electricity industry

- II.3.a. Draft and consult on a new multi-year regulatory contract
- II.3.b. Implement new multi-year regulatory contract

Policy II.4: Improve the efficiency and effectiveness of management of the electricity grid

- II.4.a. Draft and consult on a new process for updating plans
- II.4.b. Implement planning process
- II.4.c. Update plans on a periodic basis
- II.4.d. Conduct feasibility study on the potential use of smart grid technology



= Strategic action with fixed deadline
 = Ongoing strategic action

Strategic actions

Policy II.1: Increase private sector investment in large-scale electricity generation					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> II.1.a. Prepare and consult on a review international approaches to competitive procurement from large-scale IPPs and recommend an appropriate process for Fiji</p> <p><i>Baseline:</i> No experience in Fiji</p> <p><i>Links:</i></p>	Review and published	DoE (with TA)	FEA Commerce Commission Energy sector stakeholders (through NECF)	By June 2016	Govt: \$4,800 TA: \$45,000
<p><i>Action:</i> II.1.b. Prepare and consult on a set of principles to be applied in all power purchase agreements</p> <p><i>Baseline:</i> FEA has existing PPAs in place, but no transparent principles in place</p> <p><i>Links:</i> II.1.a. Prepare and consult on a review international approaches to procurement</p>	Principles published	DoE (with TA)	FEA Commerce Commission Energy sector stakeholders (through NECF)	By June 2016	Govt: \$3,200 TA: \$30,000
<p><i>Action:</i> II.1.c. Implement the recommended procurement process and PPA principles for large-scale IPPs</p> <p><i>Baseline:</i> No process in place, no history of IPP competitive procurement</p> <p><i>Links:</i> II.1.b. Prepare and consult on a set of PPA principles</p>	Regulation (or similar) approved by NECC and published	DoE	NECC FEA Commerce Commission	By December 2016	Govt: \$3,200
<p><i>Action:</i> II.1.d. Develop a grid code that regulates the technical aspects relating to connections to, and the operation and use of, the transmission system.</p>	Grid code published	DoE (with TA)	FEA	By December 2018	Govt: \$3,200 TA: \$45,000

<i>Baseline:</i>	Standard operating procedures applied by FEA, but not codified					
<i>Links:</i>	II.1.c. Implement the recommended procurement process					
<i>Action:</i>	II.1.e. Procure and achieve financial close of a new renewable energy IPP, applying new process, PPA principles, and grid code (if published)	Financial close achieved	FEA	DoE Commerce Commission	By December 2018	Govt: \$28,800
<i>Baseline:</i>	No privately owned IPPs procured to-date					
<i>Links:</i>	II.1.d. Develop a grid code					

Policy II.2: Increase private sector investment in small-scale grid-connected renewable generation					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<i>Action:</i> II.2.a. Prepare and consult on a review of mechanisms for incentivising investment in small-scale generation, including feed-in tariffs <i>Baseline:</i> Existing feed-in tariff set by Commerce Commission and updated frequently, does not distinguish between technologies or size of generation <i>Links:</i>	Review completed	DoE (with TA)	FEA Commerce Commission Energy sector stakeholders (through NECF)	By June 2017	Govt: \$4,800 TA: \$45,000
<i>Action:</i> II.2.b. Implement recommended mechanism, including new feed-in tariffs and caps on installed feed-in tariff capacity if applicable, through new regulation as appropriate <i>Baseline:</i> Existing feed-in tariff set by Commerce Commission and updated frequently, does not	Regulation (or similar) approved by NECC and published	DoE	FEA Commerce Commission NECC	By December 2017	Govt: \$3,200

<i>Links:</i>	distinguish between technologies or size of generation II.2.a. Prepare and consult on mechanisms for investment in small-scale generation					
<i>Action:</i>	II.2.c. Prepare and consult on a review of approaches to net metering, including standard connection procedures and net-metering tariffs					
<i>Baseline:</i>	No net metering policy in place, no connected distributed generation	Review completed	DoE (with TA)	FEA Commerce Commission Energy sector stakeholders (through NECF)	By June 2017	Govt: \$4,800 TA: \$45,000
<i>Links:</i>	II.2.a. Prepare and consult on mechanisms for investment in small-scale generation					
<i>Action:</i>	II.2.d. Implement recommended net-metering mechanism through new regulation as appropriate					
<i>Baseline:</i>	No net metering policy in place, no connected distributed generation	Regulation (or similar) approved by NECC and published	DoE	FEA Commerce Commission NECC	By December 2017	Govt: \$3,200
<i>Links:</i>	II.2.b. Implement recommended mechanism					

Policy II.3: Strengthen transparency and effectiveness of the regulation of the electricity industry						
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget	
		Lead agency	Supporting agency(ies)			
<i>Action:</i>	II.3.a. Draft and consult on a new multi-year regulatory contract for determining retail electricity tariffs					
<i>Baseline:</i>	Annual contract is currently used, relatively little detail, process is not entirely transparent. DoE is not involved in tariff reviews by Commerce Commission	Final contract prepared post consultation	Commerce Commission (with TA)	FEA DoE Energy sector stakeholders (through NECF)	By December 2015	Govt: \$9,600 TA: \$45,000

<i>Links:</i>	I.4.b. Commerce Commission and DoE to cooperate on energy sector regulation					
<i>Action:</i>	II.3.b. Implement new multi-year regulatory contract for determining retail electricity tariffs, including conducting the first multi-year tariff review	Contract approved by NECC and signed	Commerce Commission (with TA)	FEA DoE NECC	By December 2016	Govt: \$8,000 TA: \$45,000
<i>Baseline:</i>	No multi-year tariff review has been previously conducted	First multi-year tariff review completed				
<i>Links:</i>	II.3.a. Draft and consult on a new multi-year regulatory contract					

Policy II.4: Improve the efficiency and effectiveness of management of the electricity grid					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<i>Action:</i> II.4.a. Draft and consult on a new process for updating and publishing power development and asset management plans <i>Baseline:</i> Power development plan and asset management plan exist, but not reviewed DoE or made available to the public <i>Links:</i>	New process approved	DoE	FEA Energy sector stakeholders (through NECF)	By June 2017	Govt: \$6,400
<i>Action:</i> II.4.b. Implement process for power development and asset management planning through license or new regulations as appropriate <i>Baseline:</i> No defined process for updating plans <i>Links:</i> II.4.a. Draft and consult on a new process for updating plans	Regulation (or similar) approved by NECC and published	DoE	FEA NECC	By December 2017	Govt: \$1,600

<p><i>Action:</i> II.4.c. Update power development and asset management plans on a periodic basis as per new regulations and publish</p> <p><i>Baseline:</i> Plans not updated regularly</p> <p><i>Links:</i> II.4.b. Implement planning process</p>	<p>Power development plan and asset management plan updated</p>	FEA	DoE	From December 2017 onwards	Govt: \$28,800/year
<p><i>Action:</i> II.4.d. Conduct feasibility study on the potential use of smart grid technology in Fiji</p> <p><i>Baseline:</i> Smart grid technologies have not been investigated</p> <p><i>Links:</i></p>	<p>Feasibility study completed</p>	DoE (with TA)	FEA	By December 2018	Govt: \$3,200 TA: \$90,000

Policy area III. Rural electrification

Full policy statements

Refer to National Energy Policy

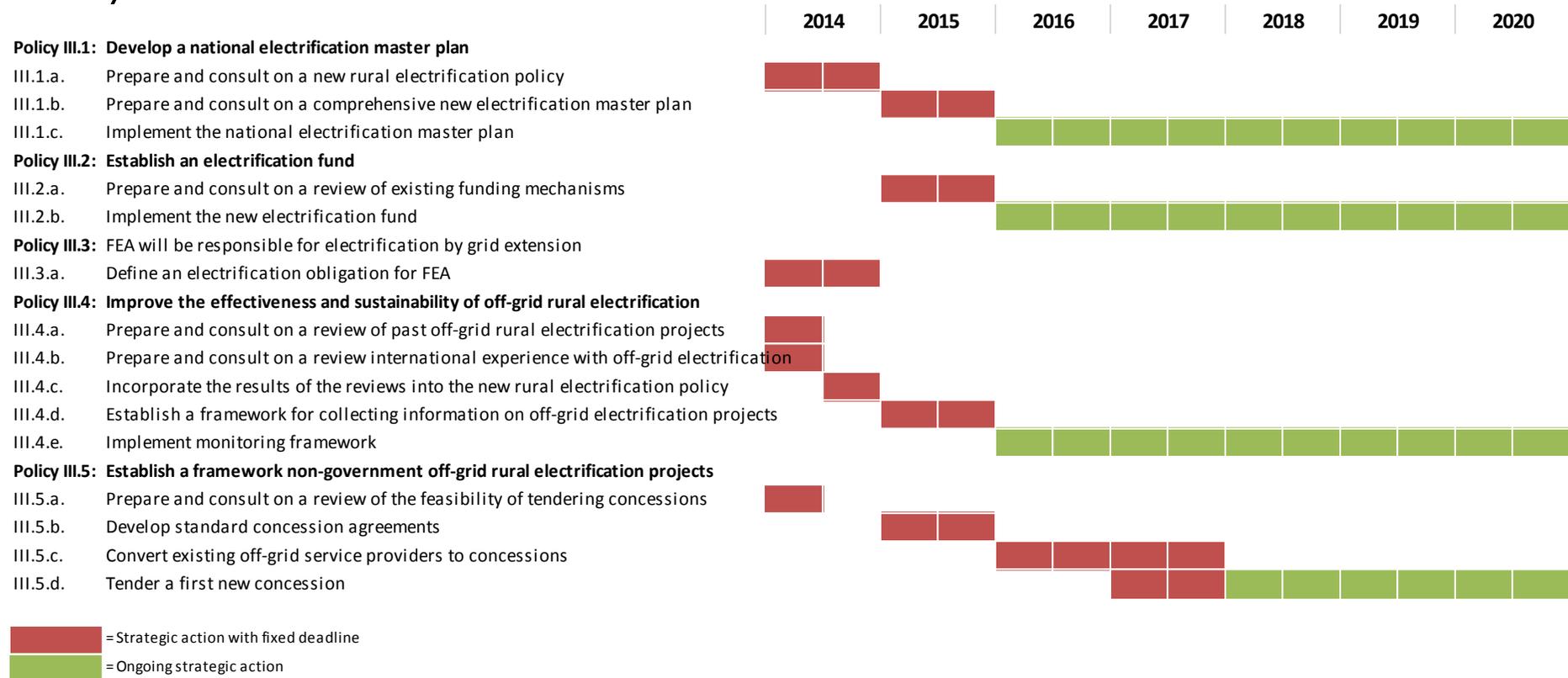
Summary of current situation

Refer to National Energy Policy and SE4ALL report

Targets specific to policy area

- Percentage of population with electricity access = 100% by 2020
- Percentage of rural households with access to electricity = 100% by 2020
- Percentage of rural households with access to modern fuels = 81% by 2020

Summary of timeframes



Strategic actions

Policy III.1: Develop a national electrification master plan					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> III.1.a. Prepare and consult on a new rural electrification policy that incorporates the results of the review of off-grid electrification (including concessioning), FEA's new electrification obligations, and the availability of an electrification fund.</p> <p><i>Baseline:</i> The existing rural electrification policy and RESCO policy are dated and appear to be producing mixed results</p> <p><i>Links:</i> III.2.a. Prepare and consult on a review of existing funding mechanisms III.3.a. Define an electrification obligation for FEA III.4.a. Prepare and consult on a review of past off-grid rural electrification projects III.4.b. Prepare and consult on a review international experience with off-grid electrification III.5.a. Prepare and consult on a review of the feasibility of tendering concessions</p>	Rural electrification policy approved by NECC and published	DoE	NECC FEA PWD Energy sector stakeholders (through NECF)	By December 2014	Govt: \$3,200
<p><i>Action:</i> III.1.b. Prepare and consult on a comprehensive new national electrification master plan that shows how each un-electrified area of Fiji will be served in a least-cost manner, in a manner consistent with the rural electrification policy</p>	Master plan approved by NECC and published	DoE (with TA)	NECC FEA PWD Energy sector stakeholders	By December 2015	Govt: \$19,200 TA: \$225,000

<i>Baseline:</i>	No master plan in place			(through NECF)		
<i>Links:</i>	III.1.a.Prepare and consult on a new rural electrification policy					
<i>Action:</i>	III.1.c. Implement the national electrification master plan					
<i>Baseline:</i>	Rural electrification projects are driven by community demand rather than a systematic approach	Number of people with new access to electricity	DoE	FEA PWD Non-governmental organisations	From December 2015 onwards	Unknown
<i>Links:</i>	III.1.b.Prepare and consult on a comprehensive new electrification master plan					

Policy III.2: Establish an electrification fund						
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget	
		Lead agency	Supporting agency(ies)			
<p><i>Action:</i> III.2.a. Prepare and consult on a review of existing funding mechanisms for rural electrification and design a new electrification fund, including a methodology to determine subsidy levels to different providers, that makes funding more transparent and easier to access by different stakeholders</p> <p><i>Baseline:</i> Funding for rural electrification projects comes from DoE's budget. The current rural electrification policy allows FEA to access these funds under certain circumstances</p> <p><i>Links:</i> III.1.a.Prepare and consult on a new rural electrification policy III.1.c. Implement the national electrification master plan</p>	Report on electrification funding published	DoE (with TA)	FEA PWD Energy sector stakeholders (through NECF)	By December 2015	Govt: \$4,800 TA: \$90,000	

<i>Action:</i>	III.2.b. Establish the new electrification fund through regulations and implement it through the new rural electrification policy and electrification master plan	Fund regulations (or similar) approved by NECC and published	DoE	NECC FEA PWD Non-governmental organisations	From December 2015 onwards	Unknown
<i>Baseline:</i>	Funding is driven by community demand	Total subsidies provided				
<i>Links:</i>	III.2.a. Prepare and consult on a review of existing funding mechanisms	Subsidy provided per person with new access to electricity				

Policy III.3: FEA will be responsible for electrification by grid extension						
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget	
		Lead agency	Supporting agency(ies)			
<i>Action:</i>	III.3.a. Define an electrification obligation for FEA, with clearer mechanisms for accessing funding from the electrification fund, and incorporate into the new regulatory contract, rural electrification policy, and electrification master plan	Obligation approved by NECC and published	DoE	NECC FEA Commerce Commission Energy sector stakeholders (through NECF)	By December 2014	Govt: \$3,200
<i>Baseline:</i>	The existing rural electrification policy places importance on FEA electrification by grid extension, but does not define specific obligations					
<i>Links:</i>	III.1.a. Prepare and consult on a new rural electrification policy					

Policy III.4: Improve the effectiveness and sustainability of the existing management models for off-grid rural electrification					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> III.4.a. Prepare and consult on a review of past off-grid rural electrification projects in Fiji</p> <p><i>Baseline:</i> Data and information on past projects is piecemeal</p> <p><i>Links:</i> III.1.a.Prepare and consult on a new rural electrification policy</p>	Review published	DoE (with TA)	PWD Energy sector stakeholders (through NECF)	By June 2014	Govt: \$1,600 TA: \$45,000
<p><i>Action:</i> III.4.b. Prepare and consult on a review international experience with off-grid electrification and develop recommendations to apply in Fiji</p> <p><i>Baseline:</i> No recent studies have investigated whether Fiji is applying international best practice</p> <p><i>Links:</i> III.4.a.Prepare and consult on a review of past off-grid rural electrification projects</p>	Review published	DoE (with TA)	PWD Energy sector stakeholders (through NECF)	By June 2014	Govt: \$1,600 TA: \$45,000
<p><i>Action:</i> III.4.c. Incorporate the results of the reviews into the new rural electrification policy</p> <p><i>Baseline:</i> The existing rural electrification policy and RESCO policy are dated and appear to be producing mixed results</p> <p>III.4.a.Prepare and consult on a review of past off-grid rural electrification projects</p> <p><i>Links:</i> III.4.b.Prepare and consult on a review international experience with off-grid electrification</p> <p>III.1.a.Prepare and consult on a new rural</p>	Off-grid recommendations incorporated into approved rural electrification policy	DoE		By December 2014	Govt: \$1,600

	electrification policy					
<i>Action:</i>	III.4.d. Establish a framework for collecting information on off-grid electrification projects and monitoring their performance	Monitoring framework established	DoE		By December 2015	Govt: \$1,600
<i>Baseline:</i>	Some monitoring is undertaken, but comprehensive data is not available					
<i>Links:</i>	I.2.m. Establish a national energy information system					
<i>Action:</i>	III.4.e. Implement monitoring framework of off-grid electrification projects and incorporate into energy information system	Number of projects entered into energy information system	DoE	PWD Non-governmental organisations	From December 2015 onwards	Govt: \$3,200 per year
<i>Baseline:</i>	Some monitoring is undertaken, but comprehensive data is not available					
<i>Links:</i>	III.4.d. Establish a framework for collecting information on off-grid electrification projects					

Policy III.5: Establish a framework for encouraging off-grid rural electrification projects by of non-government providers					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<i>Action:</i> III.5.a. Prepare and consult on a review of the feasibility of tendering concessions for the electrification of off-grid communities to non-government providers <i>Baseline:</i> There are few (if any) off-grid schemes that are owned, operated, and maintained by non-government providers. Those that do exist are not monitored or controlled by DoE <i>Links:</i> III.1.a. Prepare and consult on a new rural	Review approved by NECC and published	DoE (with TA)	NECC PWD Energy sector stakeholders (through NECF)	By June 2014	Govt: \$1,600 TA: \$15,000

	<p>electrification policy</p> <p>III.1.b.Prepare and consult on a comprehensive new electrification master plan</p>					
<p><i>Action:</i></p> <p>III.5.b. If considered feasible, develop standard concession agreements and tendering procedures</p> <p><i>Baseline:</i></p> <p>No concession agreements exist</p> <p><i>Links:</i></p> <p>III.5.a.Prepare and consult on a review of the feasibility of tendering concessions</p>	<p>Procedures approved by NECC and published</p>	<p>DoE (with TA)</p>		<p>By December 2015</p>	<p>Govt: \$1,600</p> <p>TA: \$15,000</p>	
<p><i>Action:</i></p> <p>III.5.c. Convert existing off-grid service providers to concessions, of a length sufficient to allow recovery of any outstanding investment costs</p> <p><i>Baseline:</i></p> <p>Existing off-grid providers are operating on standard maintenance contracts, with investments made by DoE</p> <p><i>Links:</i></p> <p>III.5.b.Develop standard concession agreements</p>	<p>Number of existing providers converted to concessions</p>	<p>DoE</p>	<p>Non-government organisations</p>	<p>By December 2017</p>	<p>Govt: \$9,600</p>	
<p><i>Action:</i></p> <p>III.5.d. Tender a first new concession for an off-grid electrification project to a non-government provider</p> <p><i>Baseline:</i></p> <p>DoE has never tendered out an off-grid project</p> <p><i>Links:</i></p> <p>III.5.c. Convert existing off-grid service providers to concessions</p>	<p>Financial close achieved</p>	<p>DoE</p>		<p>By December 2017</p>	<p>Govt: \$9,600</p>	

Policy area IV. Renewable energy

Full policy statements

Refer to National Energy Policy

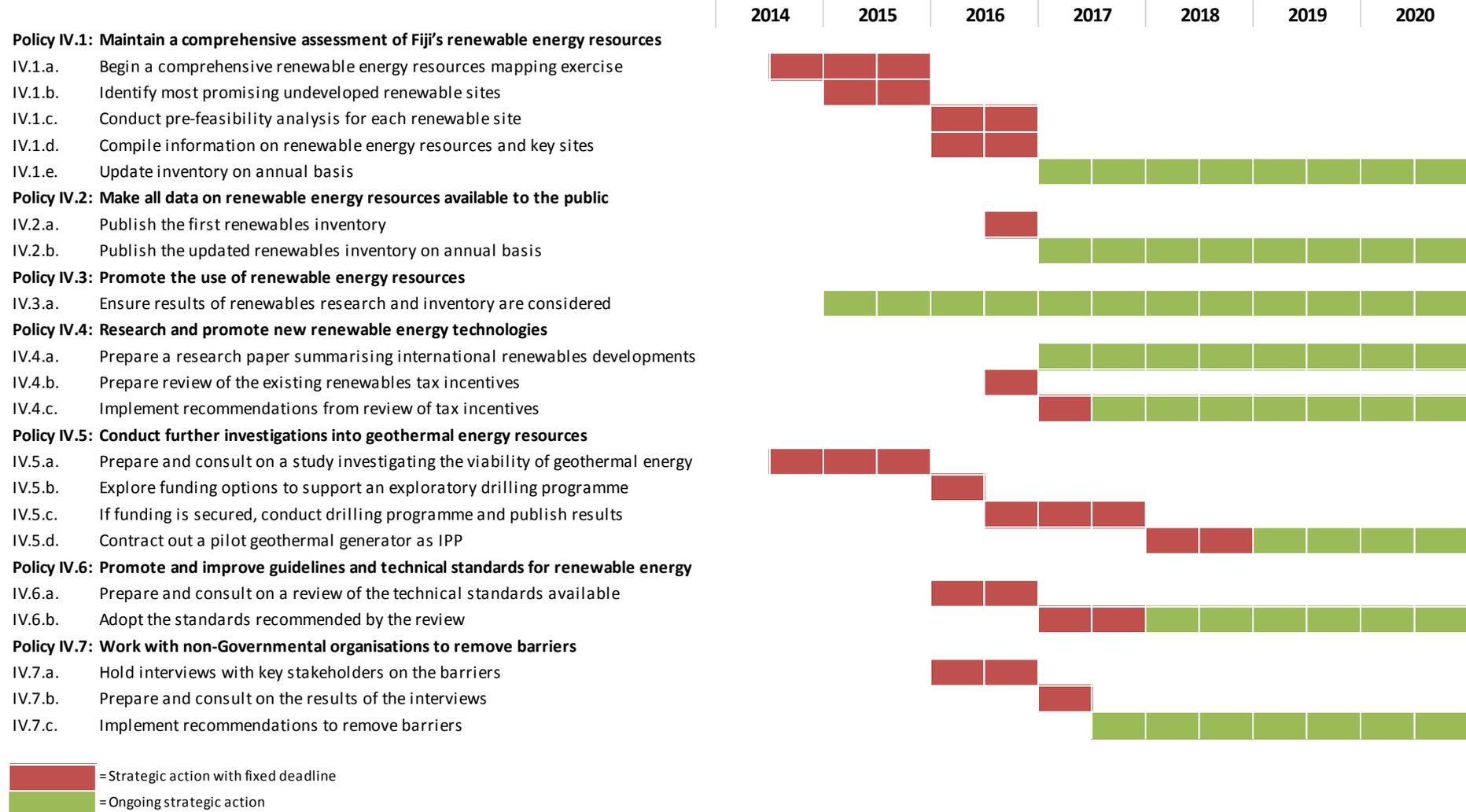
Summary of current situation

Refer to National Energy Policy and SE4ALL report

Targets specific to policy area

- ❑ Percentage of grid-based electricity generation from renewables = 81% by 2020
- ❑ Renewable energy share in total energy consumption = 18% by 2020

Summary of timeframes



Strategic actions

Policy IV.1: Maintain a comprehensive assessment of Fiji's renewable energy resources						
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget	
		Lead agency	Supporting agency(ies)			
<p><i>Action:</i> IV.1.a. Begin a comprehensive renewable energy resources mapping exercise, including monitoring wind speeds, solar radiation, and hydro flows</p> <p><i>Baseline:</i> Limited renewable resource data available</p> <p><i>Links:</i> I.2.m. Establish a national energy information system</p>	Updated results included in energy information system and published annually	DoE (with TA)	FEA Department of Environment Climate Change Unit	By December 2015	Govt: \$9,600/year TA: \$135,000/year	
<p><i>Action:</i> IV.1.b. Identify most promising undeveloped wind, solar, hydro, and geothermal renewable sites</p> <p><i>Baseline:</i> No inventory exists</p> <p><i>Links:</i> IV.1.a. Begin a comprehensive renewable energy resources mapping exercise II.4.c. Update plans on a periodic basis</p>	List of results prepared Number of sites identified	DoE (with TA)	FEA Department of Environment Mineral Resource Department Climate Change Unit	By December 2015	Govt: \$9,600 TA: \$45,000	
<p><i>Action:</i> IV.1.c. Conduct pre-feasibility analysis for each renewable site</p> <p><i>Baseline:</i> No inventory exists</p> <p><i>Links:</i> IV.1.b. Identify most promising undeveloped renewable sites</p>	Number of sites for which pre-feasibility completed	DoE (with TA)	FEA Department of Environment Mineral Resource Department Climate Change Unit	By December 2016	Govt: \$9,600 TA: \$45,000	
<p><i>Action:</i> IV.1.d. Compile information on renewable energy resources and key sites as inventory</p> <p><i>Baseline:</i> Information on renewable resources is not</p>	Inventory completed	DoE (with TA)	FEA NECC	By December 2016	Govt: \$3,200	

<i>Links:</i>	shared IV.1.c. Conduct pre-feasibility analysis for each renewable site					
<i>Action:</i>	IV.1.e. Update inventory on annual basis					
<i>Baseline:</i>	Information on renewable resources is often not kept up to date	Inventory added to energy information system and published	DoE	FEA	From December 2016 onwards	Govt: \$6,400/year
<i>Links:</i>	IV.1.d. Compile information on renewable energy resources and key sites					

Policy IV.2: Make all data on renewable energy resources available to the public and prospective investors					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<i>Action:</i> IV.2.a. Publish the first renewables inventory, including all background information, and make it downloadable on DoE's website and present at NECF. <i>Baseline:</i> Information on renewable resources is often not shared <i>Links:</i> IV.1.d. Compile information on renewable energy resources and key sites I.2.n. Make the national energy information system accessible to the public	Inventory published	DoE	Energy sector stakeholders (through NECF)	By December 2016	Govt: \$1,600
<i>Action:</i> IV.2.b. Publish the updated renewables inventory on annual basis <i>Baseline:</i> Up to date information on renewable resources is often not shared <i>Links:</i> IV.2.a. Publish the first renewables inventory	Inventory published	DoE	Energy sector stakeholders (through NECF)	From December 2016 onwards	Govt: \$1,600/year

Policy IV.3: Promote the use of renewable energy resources for both grid-connected and off-grid electricity supply					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> IV.3.a. Ensure results of renewables research and inventory are considered in other regulations and policy (including the rural electrification policy, feed-in tariff mechanism, and net metering policy)</p> <p><i>Baseline:</i> Solar and hydro are currently considered for rural electrification, but there is potential for more. No FiT or net metering mechanisms in place.</p> <p><i>Links:</i> II.1.a. Prepare and consult on a review international approaches to procurement II.2.a. Prepare and consult on mechanisms for investment in small-scale generation II.2.c. Prepare and consult on a review of approaches to net metering III.1.a. Prepare and consult on a new rural electrification policy</p>	Rural electrification policy and feed-in tariff and net metering regulations approved by NECC and published	DoE	NECC PWD FEA Non-government organisations	From December 2014 onwards	NA

Policy IV.4: Research and promote new renewable energy technologies					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> IV.4.a. Prepare and consult on a research (at least every two years) summarising international developments relating to new</p>	Research paper published	DoE (with TA)	Energy sector stakeholders (via	From December	Govt: \$1,600/year

<i>Baseline:</i>	renewable energy technologies and their applicability in Fiji International developments are not systematically monitored			NECF)	2016 onwards	TA: \$22,000/year
<i>Links:</i>						
<i>Action:</i>	IV.4.b. Prepare review of the existing tax incentives that are in place for investments in renewable energy technologies					
<i>Baseline:</i>	VAT exemptions are already in place for renewables, tax holidays also exist but subject to conditions	Review published	DoE	NECC Revenue & Customers Authority Energy sector stakeholders (via NECF)	By December 2016	Govt: \$1,600
<i>Links:</i>	IV.4.a. Prepare a research paper summarising international renewables developments					
<i>Action:</i>	IV.4.c. Implement recommendations from review of tax incentives					
<i>Baseline:</i>	No recent review of tax incentives	Amendments to Revenue and Customs Incentives Brochure approved by NECC and published	Revenue & Customers Authority	NECC DoE	By February 2017	NA
<i>Links:</i>	IV.4.c. Implement recommendations from review of tax incentives					

Policy IV.5: Conduct further investigations into geothermal energy resources as a matter of priority						
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget	
		Lead agency	Supporting agency(ies)			
<i>Action:</i>	IV.5.a. Prepare and consult on a study investigating the viability of geothermal energy					
<i>Baseline:</i>	One existing geothermal study conducted by JICA	Study published	DoE (with TA)	Department of Mineral Resources FEA	By December 2015	Govt: \$4,800 TA: \$135,000
<i>Links:</i>	IV.1.a. Begin a comprehensive renewable					

	energy resources mapping exercise III.1.b.Prepare and consult on a comprehensive new electrification master plan II.4.c. Update plans on a periodic basis					
<i>Action:</i>	IV.5.b. Explore funding options to support an exploratory drilling programme					
<i>Baseline:</i>	No funding has been made available for drilling	Funding secured	Department of Mineral Resources	DoE FEA	By June 2016	Govt: \$1,600
<i>Links:</i>	IV.5.a. Prepare and consult on a study investigating the viability of geothermal energy					
<i>Action:</i>	IV.5.c. If funding is secured, conduct drilling programme and publish results					
<i>Baseline:</i>	No existing geothermal drilling	Drilling programme conducted	Department of Mineral Resources	DoE FEA	By December 2017	Unknown
<i>Links:</i>	IV.5.b. Explore funding options to support an exploratory drilling programme					
<i>Action:</i>	IV.5.d. On completion of drilling programme, and if viable sites found, launch procurement process to contract out a pilot geothermal generator as IPP					
<i>Baseline:</i>	No geothermal generation in Fiji	Financial close reached	FEA	Department of Mineral Resources DoE	By December 2018	Unknown
<i>Links:</i>	IV.5.c. If funding is secured, conduct drilling programme and publish results					

Policy IV.6: Promote and improve guidelines and technical standards for renewable energy technologies					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<i>Action:</i>	IV.6.a. Prepare and consult on a review of the technical standards available internationally	Review published	DoE	Energy sector	By December Govt: \$4,800

<p>for renewable energy technologies in use or likely to be used in Fiji</p> <p><i>Baseline:</i> No technical standards exist</p> <p><i>Links:</i> IV.4.a. Prepare a research paper summarising international renewables developments</p>			stakeholders (through NECF)	2016	
<p><i>Action:</i> IV.6.b. Adopt the standards recommended by the review</p> <p><i>Baseline:</i> No review of existing standards has been conducted</p> <p><i>Links:</i> IV.6.a. Prepare and consult on a review of the technical standards available internationally</p>	Regulations (or similar) adopting the standards approved by NECC and published	DoE	NECC	By June 2017	Govt: \$1,600

Policy IV.7: Work with industry associations, civil society, non-Governmental organisations and communities to identify and remove regulatory and socio-economic barriers

Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> IV.7.a. Hold interviews with key stakeholders on the barriers to the uptake of renewables in Fiji</p> <p><i>Baseline:</i> Limited interaction between non-Governmental stakeholders and Government agencies on renewables between reviews of the NEP</p> <p>IV.4.a. Prepare a research paper summarising international renewables developments</p> <p><i>Links:</i> III.1.c. Implement the national electrification master plan</p> <p>II.1.e. Procure and achieve financial close of a new renewable energy IPP</p>	Number of interviews held	DoE	Selected energy sector stakeholders	By December 2016	Govt: \$3,200

<p><i>Action:</i></p> <p><i>Links:</i></p>	<p>IV.7.b. Prepare and consult on the results of the interviews</p> <p>Results of Government investigations often not presented to stakeholders</p> <p>IV.7.a. Hold interviews with key stakeholders on the barriers</p>	<p>Report on results published</p>	<p>DoE</p>	<p>Energy sector stakeholders (through NECF)</p>	<p>By June 2017</p>	<p>Govt: \$1,600</p>
<p><i>Action:</i></p> <p><i>Baseline:</i></p> <p><i>Links:</i></p>	<p>IV.7.c. Implement recommendations to remove barriers</p> <p>Barriers exist, particularly with respect to starting a renewables business</p> <p>IV.7.b. Prepare and consult on the results of the interviews</p>	<p>Regulations (or similar) implementing changes approved by NECC and published</p>	<p>DoE</p>	<p>NECC</p>	<p>From June 2017 onwards</p>	<p>Unknown</p>

Policy area V. Transport

Full policy statements

Refer to National Energy Policy

Summary of current situation

Refer to National Energy Policy and SE4ALL report

Targets specific to policy area

- ❑ Percentage of fuel efficient vehicles as a % of total vehicles on the road = 5% by 2020

Summary of timeframes

	2014	2015	2016	2017	2018	2019	2020
Policy V.1: Promote the fuel efficiency of imported motor vehicles and sea vessels							
V.1.a.		Strategic action with fixed deadline	Strategic action with fixed deadline				
V.1.b.			Strategic action with fixed deadline	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action
V.1.c.			Strategic action with fixed deadline	Strategic action with fixed deadline			
V.1.d.				Strategic action with fixed deadline	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action
Policy V.2: Investigate energy efficiency solutions for sea vessels							
V.2.a.		Strategic action with fixed deadline	Strategic action with fixed deadline				
V.2.b.			Strategic action with fixed deadline	Strategic action with fixed deadline			
Policy V.3: Support the development and implementation of the Department of Transport's							
V.3.a.	Strategic action with fixed deadline						
V.3.b.		Ongoing strategic action	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action
Policy V.4: Explore the costs and benefits of introducing mandatory fuel efficiency standards							
V.4.a.			Strategic action with fixed deadline	Strategic action with fixed deadline			
V.4.b.				Strategic action with fixed deadline	Strategic action with fixed deadline	Ongoing strategic action	Ongoing strategic action
Policy V.5: Promote the fuel efficiency of the existing motor vehicle fleet							
V.5.a.	Strategic action with fixed deadline	Strategic action with fixed deadline	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action
V.5.b.		Strategic action with fixed deadline	Strategic action with fixed deadline	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action
V.5.c.			Ongoing strategic action	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action
Policy V.6: Support voluntary actions of businesses, industry and private users							
V.6.a.			Strategic action with fixed deadline	Strategic action with fixed deadline			
V.6.b.				Strategic action with fixed deadline	Strategic action with fixed deadline		
Policy V.7: Promote public transport							
V.7.a.	Strategic action with fixed deadline						
V.7.b.		Strategic action with fixed deadline	Strategic action with fixed deadline	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action
Policy V.8: Promote cycling and establishment of cycle-paths							
V.8.a.	Strategic action with fixed deadline						
V.8.b.		Strategic action with fixed deadline	Strategic action with fixed deadline	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action
Policy V.9: Encourage consideration of energy aspects in town planning							
V.9.a.	Strategic action with fixed deadline						
V.9.b.			Strategic action with fixed deadline	Strategic action with fixed deadline	Ongoing strategic action	Ongoing strategic action	Ongoing strategic action

= Strategic action with fixed deadline
 = Ongoing strategic action

Strategic actions

Policy V.1: Promote the fuel efficiency of imported motor vehicles and sea vessels					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> V.1.a. Prepare and consult on a feasibility study on labelling for vehicle fuel economy of imported land transport vehicles, vessels, and outboard engines</p> <p><i>Baseline:</i> No labelling program in place in the transport sector</p> <p><i>Links:</i> V.3.a. Ensure that the key provisions are incorporated into the DoTs policies</p>	Study published	Land Transport Authority (with TA)	DoE DoT Maritime Safety Authority Revenue & Customs Authority Energy sector stakeholders (through NECF)	By December 2015	Govt: \$1,600 TA: \$22,000
<p><i>Action:</i> V.1.b. Implement new labelling program (if considered viable)</p> <p><i>Baseline:</i> No labelling program in place in the transport sector</p> <p><i>Links:</i> V.1.a. Prepare and consult on a feasibility study on labelling for vehicle fuel economy</p>	New regulations (or similar) approved by NECC and published Number of vehicles/vessels labelled Average fuel efficiency of imported vehicles/vessels	Land Transport Authority	NECC DoE DoT Maritime Safety Authority Revenue & Customs Authority	By June 2016	Govt: \$3,200/year
<p><i>Action:</i> V.1.c. Prepare and consult on a review of second hand vehicle and vessel age limits and import tax incentives</p> <p><i>Baseline:</i> Age limits already in place, some tax incentives for electric buses etc.</p> <p><i>Links:</i> V.3.a. Ensure that the key provisions are</p>	Review published	DoE	DoT Land Transport Authority Maritime Safety Authority Revenue & Customs Authority	By December 2016	Govt: \$4,800

	incorporated into the DoTs policies			Energy sector stakeholders (through NECF)		
<i>Action:</i>	V.1.d. Implement any changes to vehicle/vessel age limits and tax incentives through new regulations as appropriate	New regulations (or similar) approved by NECC and published	DoE	NECC DoT Land Transport Authority Maritime Safety Authority Revenue & Customs Authority	By June 2017	Govt: \$3,200/year
<i>Baseline:</i>	Age limits already in place, some tax incentives for electric buses etc.	Average age of imported second hand land vehicles				
<i>Links:</i>	V.1.c. Prepare and consult on a review of second hand vehicle and vessel age limits and import tax incentives	Average fuel efficiency of imported vehicles/vessels				

Policy V.2: Investigate the potential and cost-effectiveness of energy efficiency solutions for sea vessels					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<i>Action:</i> V.2.a. Prepare and consult on a feasibility study of energy-efficient sea vessels <i>Baseline:</i> Possible efficiency solutions have not been explored <i>Links:</i> V.3.a. Ensure that the key provisions are incorporated into the DoTs policies	Feasibility study published	DoE	Energy sector stakeholders (via NECF) Maritime Safety Authority	By December 2015	Govt: \$4,800
<i>Action:</i> V.2.b. Run pilot programme on energy-efficient sea vessels (if considered viable) <i>Baseline:</i> No such vessels have been built or operated in Fiji <i>Links:</i> V.2.a. Prepare and consult on a feasibility study of energy-efficient sea vessels	Results of pilot programme published Number of pilot vessels operated/tested	DoE	Maritime Safety Authority Energy sector stakeholders (via NECF)	By December 2016	Govt: \$9,600

Policy V.3: Support the development and implementation of the Department of Transport’s land and marine transport policies that encourage a shift towards more energy efficient forms of land and sea transport					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> V.3.a. Ensure that the key provisions contained in the NEP and SAP are incorporated into the DoTs policies</p> <p><i>Baseline:</i> No current policies. Transport planning has focused on infrastructure, with little focus on energy consumption</p> <p><i>Links:</i></p>	<p>New transport policies published</p> <p>Number of provisions in new policies relating to energy efficiency</p>	DoT	<p>DoE</p> <p>Land Transport Authority</p> <p>Maritime Safety Authority</p> <p>Civil Aviation Authority</p>	June 2014	NA
<p><i>Action:</i> V.3.b. Monitor the progress of the implementation of the transport policies with respect to energy policy</p> <p><i>Baseline:</i> No current policies.</p> <p><i>Links:</i> V.3.a. Ensure that the key provisions are incorporated into the DoTs policies I.5.a. Monitor progress relating to the Strategic Action Plan</p>	<p>SAP and progress report updated to reflect energy-related aspects of new transport policy</p>	DoE	<p>DoE</p> <p>Land Transport Authority</p> <p>Maritime Safety Authority</p> <p>Civil Aviation Authority</p> <p>Bureau of Statistics</p>	From December 2014 onwards	Govt: \$1,600

Policy V.4: Explore the costs and benefits of introducing mandatory fuel efficiency standards					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		

<p><i>Action:</i> V.4.a. Prepare and consult on a study investigating the feasibility of implementing mandatory fuel efficiency standards in Fiji</p> <p><i>Baseline:</i> No mandatory standards, no feasibility study undertaken</p> <p><i>Links:</i> V.1.b. Implement new labelling program V.1.d. Implement any changes to vehicle/ vessel age limits and tax incentives</p>	Study published	DoE (with TA)	DoT Land Transport Authority Maritime Safety Authority Revenue & Customs Authority Energy sector stakeholders (through NECF)	By December 2016	Govt: \$4,800 TA: \$30,000
<p><i>Action:</i> V.4.b. Implement fuel efficiency standards (if considered viable) through new regulations as appropriate</p> <p><i>Baseline:</i> No mandatory standards</p> <p><i>Links:</i> V.4.a. Prepare and consult on a study on mandatory fuel efficiency standards</p>	New regulations (or similar) approved by NECC and published Average fuel efficiency of imported vehicles/vessels	DoE	NECC DoT Land Transport Authority Maritime Safety Authority Revenue & Customs Authority	By December 2017	Unknown

Policy V.5: Promote the fuel efficiency of the existing motor vehicle fleet					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> V.5.a. Launch information campaigns to encourage efficient driving</p> <p><i>Baseline:</i> No campaigns run</p> <p><i>Links:</i></p>	Number of advertisements run	DoT	DoE Land Transport Authority	By December 2014	Govt: \$1,600
<p><i>Action:</i> V.5.b. Launch an efficient driver training programme, possibly incorporating into existing defensive driving courses</p> <p><i>Baseline:</i> Only defensive driver courses run</p>	Number of drivers trained in fuel-efficient driving practice	DoT	DoE Land Transport Authority	By June 2015	Govt: \$9,600/year

<i>Links:</i>					
<i>Action:</i>	V.5.c. Increase the certification of vehicle inspection workshops and the number of testing stations to improve the enforcement of vehicle maintenance and maximum axel weight standard	Number of vehicles tested Number of workshops certified	Land Transport Authority	DoE DoT	From December 2014 onwards
<i>Baseline:</i>	Some testing and certification, room for improvement				Govt: \$19,200/year
<i>Links:</i>	V.5.a. Launch information campaigns to encourage efficient driving				

Policy V.6: Support voluntary actions of businesses, industry and private users					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<i>Action:</i>	V.6.a. Hold interviews with key stakeholders on voluntary actions to improve transport efficiency	Number of interviews held	DoE	Selected transport sector stakeholders	By December 2016
<i>Baseline:</i>	Limited interaction between non-Governmental stakeholders and Government agencies on transport efficiency between reviews of the NEP				
<i>Links:</i>					
<i>Action:</i>	V.6.b. Prepare and consult on the results of the interviews	Report on results published	DoE	Energy sector stakeholders (through NECF and NTCF)	By June 2017
<i>Baseline:</i>	Results of Government investigations often not presented to stakeholders				
<i>Links:</i>	V.6.a. Hold interviews with key stakeholders on voluntary actions				

Policy V.7: Promote public transport					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> V.7.a. Ensure DoT's new transport policies adequately address the promotion of public transport</p> <p><i>Baseline:</i> Buses used extensively in Fiji</p> <p><i>Links:</i> V.3.a. Ensure that the key provisions are incorporated into the DoTs policies</p>	Policies published	DoT	DoE Land Transport Authority Maritime Safety Authority	By June 2014	NA
<p><i>Action:</i> V.7.b. Prepare and consult on a public transport plan (or similar) as envisaged in the new transport policies</p> <p><i>Baseline:</i> No public transport plan in place</p> <p><i>Links:</i> V.7.a. Ensure DoT's new transport policies adequately address the promotion of public transport</p>	Plan published Number of public transport passengers per year	DoT (with TA)	DoE Land Transport Authority Maritime Safety Authority Energy and transport sector stakeholders (through NECF and NTCF)	By December 2015	Govt: \$9,600 TA: \$180,000

Policy V.8: Promote cycling and establishment of cycle-paths in urban areas					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> V.8.a. Ensure DoT's new transport policies adequately address the promotion of cycling and cycle-paths</p> <p><i>Baseline:</i> Very little cyclists and almost no cycle paths</p>	Policies published	DoT	DoE Land Transport Authority Maritime Safety	By June 2014	NA

<i>Links:</i>	V.3.a. Ensure that the key provisions are incorporated into the DoTs policies V.7.a. Ensure DoT's new transport policies adequately address the promotion of public transport			Authority		
<i>Action:</i>	V.8.b. Prepare and consult on a cycle plan (or similar) as envisaged in the new transport policies			DoE Land Transport Authority Energy and transport sector stakeholders (through NECF and NTCF)		
<i>Baseline:</i>	No plan to promote cycling in place	Plan published Number of cyclist trips per year	DoT (with TA)		By December 2015	Govt: \$3,200 TA: \$45,000
<i>Links:</i>	V.8.a. Ensure DoT's new transport policies adequately address the promotion of cycling					

Policy V.9: Encourage town planning and work with local councils to encourage consideration of energy aspects in town planning					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<i>Action:</i>	V.9.a. Ensure DoT's new transport policies adequately address energy aspects of town planning				
<i>Baseline:</i>	No town planning guidelines				
<i>Links:</i>	V.3.a. Ensure that the key provisions are incorporated into the DoTs policies V.7.a. Ensure DoT's new transport policies adequately address the promotion of public transport V.8.a. Ensure DoT's new transport policies adequately address the promotion of cycling	Policies published	DoT	DoE Land Transport Authority Maritime Safety Authority	By June 2014 NA

<p><i>Action:</i></p> <p><i>Baseline:</i></p> <p><i>Links:</i></p>	<p>V.9.b. Prepare and consult on guidelines for energy efficient urban planning (or similar) as envisaged in the new transport policies</p> <p>No guidelines</p> <p>V.9.a. Ensure DoT's new transport policies adequately address energy aspects of town planning</p>	<p>Guidelines published</p>	<p>DoT</p>	<p>DoE Land Transport Authority Energy and transport sector stakeholders (through NECF and NTCF)</p>	<p>By December 2016</p>	<p>Govt: \$6,400</p>
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Policy area VI. Petroleum and biofuels

Full policy statements

Refer to National Energy Policy

Summary of current situation

Refer to National Energy Policy and SE4ALL report

Targets specific to policy area

- Percentage of rural households with access to electricity = 100% by 2020
- Percentage of urban households with access to modern fuels = 94% by 2020
- Percentage of biofuel consumption in total liquid fuel supply = 1.11% by 2020

Summary of timeframes

Policy VI.1: Reduce the cost of imported petroleum products

- VI.1.a. Prepare and consult on a review of the pricing template used to regulate fuel
- VI.1.b. Amend pricing template based on recommendations of review
- VI.1.c. Prepare and consult on a review of the feasibility of monopsony buyer

Policy VI.2: Improve the transparency of petroleum supply

- VI.2.a. Collect data on fuel
- VI.2.b. Mandate the release of fuel consumption data

Policy VI.3: Continue research to explore the potential for biofuels

- VI.3.a. Prepare and consult on a resource assessment to determine supply of coconuts
- VI.3.b. Prepare and consult on a feasibility study of widespread biodiesel production
- VI.3.c. Upscale the pilot programmes to blend coconut oil with diesel in remote areas
- VI.3.d. Prepare and consult on a study investigating the import of and use of flexi-fuel
- VI.3.e. Monitor the supply of feedstock for industrial fuel ethanol production
- VI.3.f. When feedstock is sufficient, prepare updated feasibility study

Policy VI.4: Encourage the use of relatively environmentally friendly petroleum products

- VI.4.a. Prepare and consult on a study examining taxation on petroleum products
- VI.4.b. Implement recommendations from review of fuel taxation

Policy VI.5: Keep fuel standards up-to-date

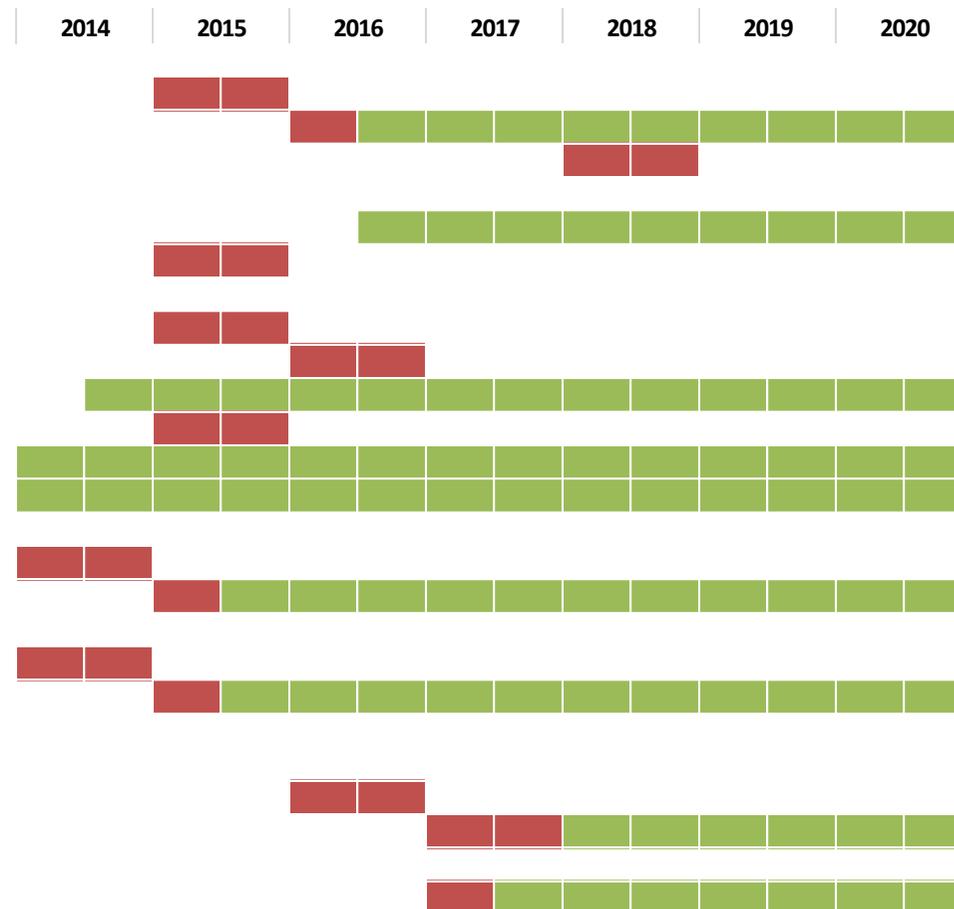
- VI.5.a. Prepare and consult on a review of fuel standards
- VI.5.b. Implement recommendations from review, including regular testing

Policy VI.6: Prepare and maintain contingency plans for fuel supply

- VI.6.a. Prepare and consult on a review of contingency plans for fuel supply
- VI.6.b. Implement recommendations of review

Policy I.1: Continue to apply national biodiesel and ethanol fuel standards

- VI.7.a. Prepare and consult on a review of biofuel fuel standards
- VI.7.b. Implement recommendations from review, including regular testing



= Strategic action with fixed deadline
 = Ongoing strategic action

Strategic actions

Policy VI.1: Reduce the cost of imported petroleum products					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> VI.1.a. Prepare and consult on a review of the pricing template used to regulate retail fuel prices and make recommendations on ways the mechanism can be applied to reduce fuel costs</p> <p><i>Baseline:</i> Fuel prices in Fiji are consistently higher than Samoa, despite being the regional hub for fuel supply</p> <p><i>Links:</i></p>	Review published	Commerce Commission (with TA)	DoE Bureau of Statistics Energy and transport sector stakeholders (through NECF and NTCF)	By December 2015	Govt: \$3,200 TA: \$90,000
<p><i>Action:</i> VI.1.b. Amend pricing template based on recommendations of review</p> <p><i>Baseline:</i> Fuel prices in Fiji are consistently higher than Samoa, despite being the regional hub for fuel supply</p> <p><i>Links:</i> VI.1.a. Prepare and consult on a review of the pricing template used to regulate fuel prices</p>	Pricing template amended	Commerce Commission	DoE Fuel suppliers	By June 2016	Govt: \$3,200
<p><i>Action:</i> VI.1.c. Prepare and consult on a review of the feasibility of monopsony buyer, for fuel supply within Fiji or the greater Pacific region</p> <p><i>Baseline:</i> A previous study suggested regional procurement was infeasible (at the time), tendering by a monopsony for Fiji has not been investigated</p> <p><i>Links:</i> VI.1.b. Amend pricing template based on recommendations of review</p>	Review published	DoE (with TA)	Energy and transport sector stakeholders (through NECF and NTCF)	By December 2018	Govt: \$3,200 TA: \$45,000

Policy VI.2: Improve the transparency of petroleum supply					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> VI.2.a. Collect data on fuel, including imports, re-exports, consumption, and pricing, and enter into the national energy information system.</p> <p><i>Baseline:</i> Limited data collected and made available</p> <p><i>Links:</i> I.2.m. Establish a national energy information system</p>	Number of data points collected	DoE	Bureau of Statistics Ministry of Industry and Trade Reserve Bank	From June 2016 onwards	Govt: \$3,200/year
<p><i>Action:</i> VI.2.b. Mandate the release of fuel consumption data by sector from fuel suppliers and retailers</p> <p><i>Baseline:</i> Data not provided despite requests</p> <p><i>Links:</i> VI.2.a. Collect data on fuel</p>	Regulations (or similar) approved and published	DoE	Commerce Commission Ministry of Industry and Trade Reserve Bank Bureau of Statistics Fuel supply companies NECC	By December 2015	Govt: \$4,800

Policy VI.3: Continue research to explore the potential for increased production and use of biofuels					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		

<p><i>Action:</i> VI.3.a. Prepare and consult on a detailed resource assessment to determine current and future supply of coconuts/copra in Fiji</p> <p><i>Baseline:</i> Sustainability of coconut industry and copra production uncertain</p> <p><i>Links:</i></p>	Resource assessment published	DoE	Ministry of Agriculture Energy sector stakeholders (through NECF)	By December 2015	Govt: \$9,600
<p><i>Action:</i> VI.3.b. Prepare and consult on a feasibility study of widespread biodiesel production from coconut oil and blends, updating existing studies where relevant</p> <p><i>Baseline:</i> Financial/economic viability of CNO use as substitute fuel not established</p> <p><i>Links:</i> VI.3.a. Prepare and consult on a resource assessment to determine supply of coconuts</p>	Feasibility study published	DoE (with TA)	Ministry of Agriculture Energy sector stakeholders (through NECF)	By December 2016	Govt: \$3,200 TA: \$45,000
<p><i>Action:</i> VI.3.c. Upscale the pilot programmes to blend coconut oil with diesel in remote areas, using private contractors where possible</p> <p><i>Baseline:</i> Pilot programme run successfully</p> <p><i>Links:</i> VI.3.a. Prepare and consult on a resource assessment to determine supply of coconuts</p>	Number of communities blending diesel Litres of coconut oil blended Number of contracts awarded	DoE		From June 2014 onwards	Govt: \$3,200 / year
<p><i>Action:</i> VI.3.d. Prepare and consult on a study investigating the import of and use of flexi-fuel private and commercial vehicles in Fiji, to inform energy efficiency measures and regulations in the transport sector</p> <p><i>Baseline:</i> Very few (if any) in use, viability not established</p> <p><i>Links:</i> VI.3.b. Prepare and consult on a feasibility study of widespread biodiesel production V.3.a. Ensure that the key provisions are incorporated into the DoTs policies</p>	Feasibility study published	DoT	DoE Land Transport Authority Energy and transport sector stakeholders (through NECF and NTCF)	By December 2015	Govt: \$9,600

<p><i>Action:</i> VI.3.e. Monitor the supply of feedstock for industrial fuel ethanol production</p> <p><i>Baseline:</i> Sugar industry in decline</p> <p><i>Links:</i></p>	Summary of supply prepared annually	DoE	Fiji Sugar Corporation	From January 2014 onwards	Govt: \$1,200/year
<p><i>Action:</i> VI.3.f. When feedstock is sufficient, prepare and consult on an updated feasibility study on fuel ethanol production in Fiji</p> <p><i>Baseline:</i> Existing studies do not show financial, economic and environmental feasibility of large scale ethanol production</p> <p><i>Links:</i> VI.3.b. Prepare and consult on a feasibility study of widespread biodiesel production V.3.a. Ensure that the key provisions are incorporated into the DoTs policies</p>	Feasibility study published	DoE (with TA)	Fiji Sugar Corporation Energy sector stakeholders (through NECF)	Unknown	Govt: \$2,400 TA: \$45,000

Policy VI.4: Encourage the use of relatively environmentally friendly petroleum products					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> VI.4.a. Prepare and consult on a study examining taxation on petroleum products relative to this environmental impact</p> <p><i>Baseline:</i> All fuels taxed</p> <p><i>Links:</i></p>	Study published	DoE	Commerce Commission Revenue & Customs Authority Energy sector stakeholders (through NECF)	By December 2014	Govt: \$4,800
<p><i>Action:</i> VI.4.b. Implement recommendations from</p>	Amendments to	Revenue &	NECC	By February	NA

<p>review of fuel taxation through amendment to legislation as appropriate</p> <p><i>Baseline:</i> No recent review of tax incentives</p> <p><i>Links:</i></p>	Revenue and Customs Incentives Brochure approved by NECC and published	Customers Authority	DoE	2015	
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Policy VI.5: Keep fuel standards up-to-date and ensure that they are adhered to					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> VI.5.a. Prepare and consult on a review of fuel standards</p> <p><i>Baseline:</i> Fuel standards not recently reviewed</p> <p><i>Links:</i> V.3.a. Ensure that the key provisions are incorporated into the DoTs policies</p>	Review published	DoE	Ministry of Industry and Trade Commerce Commission Revenue & Customs Authority Energy sector stakeholders (through NECF)	By December 2014	Govt: \$4,800
<p><i>Action:</i> VI.5.b. Implement recommendations from review through new standards, including regular testing of fuel suppliers and retailers</p> <p><i>Baseline:</i> Fuel standards not recently reviewed,</p> <p><i>Links:</i> VI.5.a. Prepare and consult on a review of fuel standards</p>	New standards approved by NECC and published Number of fuel retailers tested	Ministry of Industry and Trade	DoE NECC Land Transport Authority Maritime Safety Authority Civil Aviation Authority	By Feb 2015	Govt: \$19,200 / year

Policy VI.6: Prepare and maintain contingency plans for fuel supply					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> VI.6.a. Prepare and consult on a review of contingency plans for fuel supply during business as usual and during emergency times</p> <p><i>Baseline:</i> No contingency plans in place</p> <p><i>Links:</i></p>	Review published	Ministry of Planning (with TA)	DoE DoT Reserve Bank Energy sector stakeholders (through NECF)	By December 2016	Govt: \$19,200
<p><i>Action:</i> VI.6.b. Implement recommendations of review through regulations (or similar) and procedures as appropriate</p> <p><i>Baseline:</i> No contingency plans in place</p> <p><i>Links:</i> VI.6.a. Prepare and consult on a review of contingency plans for fuel supply</p>	New regulations and procedures approved by NECC and published	Ministry of Planning	DoE DoT Reserve Bank NECC	By December 2017	Unknown

Policy VI.7: Continue to apply national biodiesel and ethanol fuel standards					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> VI.7.a. Prepare and consult on a review of biofuel fuel standards</p> <p><i>Baseline:</i> Biofuel standards set recently</p> <p><i>Links:</i> VI.5.a. Prepare and consult on a review of fuel standards VI.3.b. Prepare and consult on a feasibility study of widespread biodiesel production</p>	Review published	DoE	DoT Commerce Commission Energy sector stakeholders (through NECF)	By December 2016	Govt: \$3,200

	VI.3.e. Monitor the supply of feedstock for industrial fuel ethanol production					
<i>Action:</i>	VI.7.b. Implement recommendations from review through updated biofuel standards, including regular testing of fuel suppliers and retailers	New standards approved by NECC and published Number of fuel retailers tested	Ministry of Industry and Trade	DoE NECC Land Transport Authority Maritime Safety Authority Civil Aviation Authority	By February 2017	Govt: \$3,200/year
<i>Baseline:</i>	Biofuel standards set recently					
<i>Links:</i>	VI.7.a. Prepare and consult on a review of biofuel fuel standards					

Policy area VII. Energy efficiency

Full policy statements

Refer to National Energy Policy

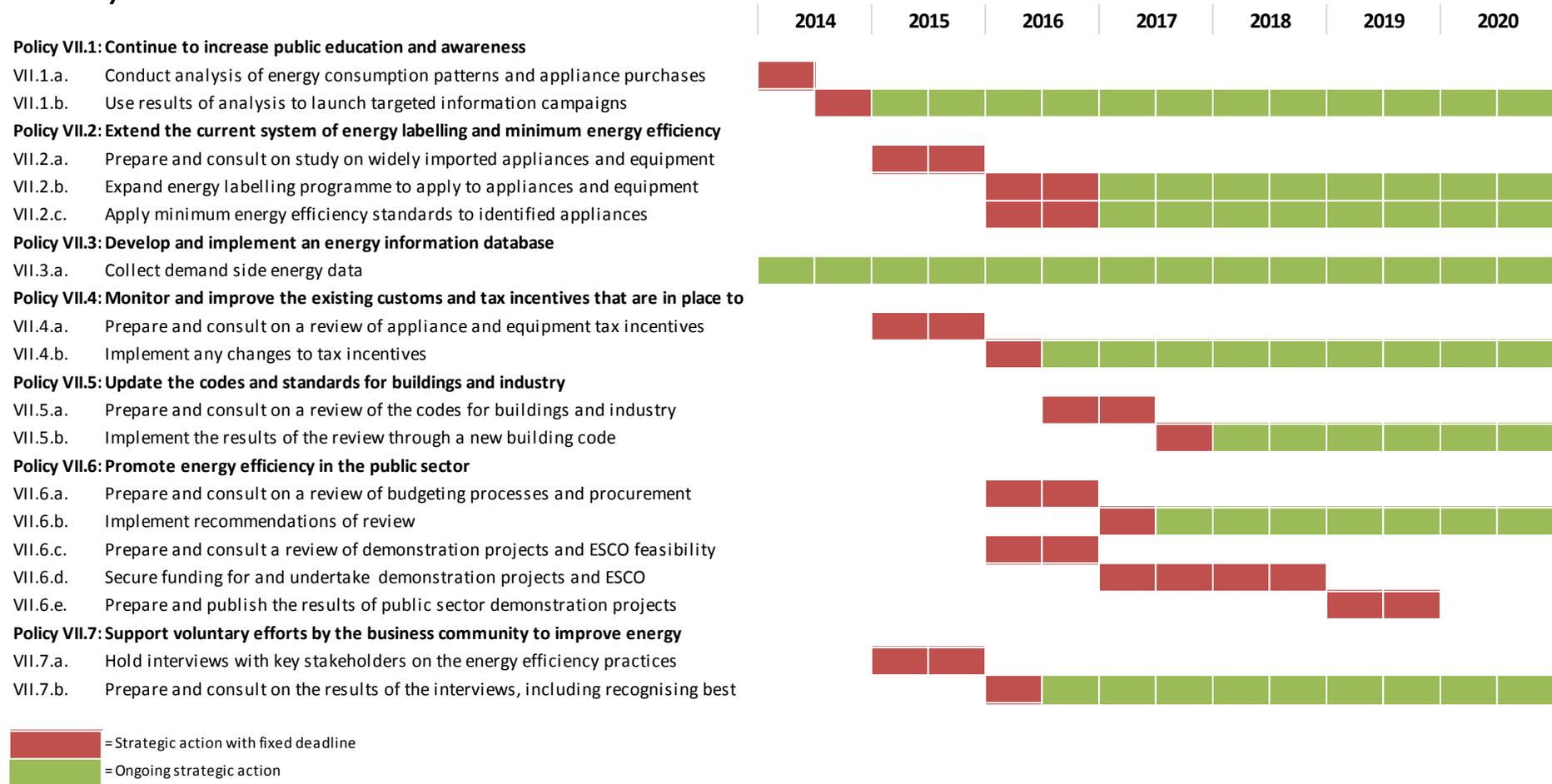
Summary of current situation

Refer to National Energy Policy and SE4ALL report

Targets specific to policy area

- ❑ Energy intensity (fuel consumption per unit of GDP in MJ/FJD) = 2.86 by 2020

Summary of timeframes



Strategic actions

Policy VII.1: Continue to increase public education and awareness					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> VII.1.a. Conduct analysis of available data on energy consumption patterns and market research of appliance purchases by households and businesses</p> <p><i>Baseline:</i> Information on household and business energy consumption not consolidated</p> <p><i>Links:</i> I.2.m. Establish a national energy information system</p>	Analysis published	DoE		By June 2014	Govt: \$3,200
<p><i>Action:</i> VII.1.b. Use results of analysis to launch targeted information campaigns to households and businesses on the range of energy saving technologies and options available</p> <p><i>Baseline:</i> Some information made available, but limited</p> <p><i>Links:</i> VII.1.a. Conduct analysis of energy consumption patterns and appliance purchases</p>	Number of advertisements run	DoE		By December 2015	Govt: \$1,600/year

Policy VII.2: Extend the current system of energy labelling and minimum energy efficiency standards					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> VII.2.a. Prepare and consult on study to identify all widely imported electrical</p>	Study published	DoE	Revenues &	By December	Govt: \$4,800

<i>Baseline:</i>	appliances and industrial equipment suitable for energy labelling and efficiency standards Energy labelling and standards for refrigerators only			Customs Authority Energy sector stakeholders (through NECF)	2015	
<i>Links:</i>						
<i>Action:</i>	VII.2.b. Expand energy labelling programme to apply to identified appliances and equipment, using by Australia and New Zealand as appropriate	Number of different types of appliances part of labelling programme	DoE	Revenues & Customs Authority	By December 2016	Govt: \$19,200/year
<i>Baseline:</i>	Energy labelling for refrigerators only	Number of imported appliances labelled annually				
<i>Links:</i>	VII.2.a.Prepare and consult on study on widely imported appliances and equipment					
<i>Action:</i>	VII.2.c. Apply minimum energy efficiency standards to identified appliances and equipment by publishing new regulations	Number of different types of appliances with standards applied	DoE	Revenues & Customs Authority	By December 2016	Govt: \$19,200/year
<i>Baseline:</i>	Energy standards for refrigerators only, no regulations in place					
<i>Links:</i>	VII.2.a.Prepare and consult on study on widely imported appliances and equipment					

Policy VII.3: Develop and implement an energy information database					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<i>Action:</i>	VII.3.a. Collect data on energy consumption, including import of appliances, equipment, and vehicles, and data on household and business electricity load profiles and integrated into national energy information system	Number of data points collected	DoE	Bureau of Statistics	From January 2013 onwards Govt: \$3,200/year

<p><i>Baseline:</i> Very little demand-side data collected</p> <p>I.2.m. Establish a national energy information system</p> <p><i>Links:</i> VII.1.a. Conduct analysis of energy consumption patterns and appliance purchases</p>					
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Policy VII.4: Monitor and improve the existing customs and tax incentives that are in place to encourage the use of energy efficient appliances and equipment

Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> VII.4.a. Prepare and consult on a review of energy efficient appliance and equipment import tax incentives</p> <p><i>Baseline:</i> No tax incentives for appliances and equipment</p> <p><i>Links:</i> IV.4.b. Prepare review of the existing renewables tax incentives</p>	Review published	DoE	Revenue & Customs Authority Energy sector stakeholders (through NECF)	By December 2016	Govt: \$4,800
<p><i>Action:</i> VII.4.b. Implement any changes to tax incentives through new regulations as appropriate</p> <p><i>Baseline:</i> No tax incentives for appliances and equipment</p> <p><i>Links:</i> VII.4.a. Prepare and consult on a review of appliance and equipment tax incentives</p>	Amendments to Revenue and Customs Incentives Brochure approved by NECC and published	Revenue & Customers Authority	DoE NECC Revenue & Customs Authority	By June 2016	Govt: \$1,600

Policy VII.5: Update the codes and standards for buildings and industry

Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting		

			agency(ies)		
<p><i>Action:</i> VII.5.a. Prepare and consult on a review the codes and standards for buildings and industry, including minimum standards for energy use for ventilation, cooling, and lighting</p> <p><i>Baseline:</i> Existing building codes/standards do not include energy efficiency standards</p> <p><i>Links:</i></p>	Review published	DoE (with TA)	Energy sector stakeholders (through NECF)	By June 2017	Govt: \$9,600 TA: \$45,000
<p><i>Action:</i> VII.5.b. Implement the results of the review through a new building code</p> <p><i>Baseline:</i> Existing building codes/standards do not include energy efficiency standards</p> <p><i>Links:</i> VII.5.a. Prepare and consult on a review of the codes for buildings and industry</p>	Regulations approved by NECC and published	DoE	NECC	By December 2017	Govt: \$3,200

Policy VII.6: Promote energy efficiency in the public sector

Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> VII.6.a. Prepare and consult on a review of public sector budgeting processes and procurement rules, with the objective of providing incentives to undertake energy efficiency projects</p> <p><i>Baseline:</i> Procurement rules do not allow lifecycle cost contracting and operating cost savings are often reallocated</p> <p><i>Links:</i></p>	Review published	DoE (with TA)	Ministry of Planning Reserve Bank Energy sector stakeholders (through NECF)	By December 2016	Govt: \$3,600 TA: \$45,000
<p><i>Action:</i> VII.6.b. Implement recommendations of</p>	New procurement	Public Services	DoE	By June 2017	Govt: \$1,200

<p><i>Baseline:</i> review by amending procurement rules and budgeting processes Procurement rules do not allow lifecycle cost contracting and operating cost savings are often reallocated</p> <p><i>Links:</i> VII.6.a. Prepare and consult on a review of budgeting processes and procurement</p>	<p>rules and budgeting processes approved by NECC and published</p>	<p>Commission</p>	<p>Ministry of Planning Reserve Bank NECC</p>		<p>TA: \$22,000</p>
<p><i>Action:</i> VII.6.c. Prepare and consult on a review of suitable public sector demonstration projects and the feasibility of creating an Energy Service Company (ESCO) to undertake them (under an arrangement where energy savings are shared between project and ESCO)</p> <p><i>Baseline:</i> No significant public sector energy efficiency projects</p> <p><i>Links:</i> VII.6.b. Implement recommendations of review</p>	<p>Proposed review published</p>	<p>DoE (with TA)</p>	<p>Energy sector stakeholders (through NECF)</p>	<p>By December 2016</p>	<p>Govt: \$1,200 TA: \$22,000</p>
<p><i>Action:</i> VII.6.d. Secure funding for and undertake public sector energy efficiency demonstration projects and setup an ESCO (if applicable)</p> <p><i>Baseline:</i> No significant public sector energy efficiency projects</p> <p><i>Links:</i> VII.6.c. Prepare and consult a review of demonstration projects and ESCO feasibility</p>	<p>Regulation establishing ESCO approved by NECC and published Funding secured Number of public sector efficiency projects completed</p>	<p>DoE</p>	<p>Reserve Bank NECC</p>	<p>By December 2018</p>	<p>Unknown</p>
<p><i>Action:</i> VII.6.e. Prepare and publish the results of public sector demonstration projects, including developing energy efficiency protocols for public sector facilities, and define a process for handing over the ESCO to the private sector (if applicable)</p> <p><i>Baseline:</i> No significant public sector energy efficiency projects</p> <p><i>Links:</i> VII.6.d. Secure funding for and undertake</p>	<p>Results published ESCO</p>	<p>DoE</p>	<p>Energy sector stakeholders (through NECF)</p>	<p>By June 2019</p>	<p>Govt: \$3,600</p>

demonstration projects and ESCO					
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Policy VII.7: Support voluntary efforts by the business community to improve energy efficiency					
Key strategic actions	Key Performance Indicators	Responsible organisation(s)		Indicative timeframe	Estimated budget
		Lead agency	Supporting agency(ies)		
<p><i>Action:</i> VII.7.a. Hold interviews with key stakeholders on the energy efficiency practices</p> <p><i>Baseline:</i> Limited interaction between non-Governmental stakeholders and Government agencies on energy efficient measures</p> <p><i>Links:</i> IV.7.a. Hold interviews with key stakeholders on the barriers</p>	Number of interviews held	DoE	Selected energy sector stakeholders	By December 2015	Govt: \$3,200
<p><i>Action:</i> VII.7.b. Prepare and consult on the results of the interviews, including recognising best performers</p> <p>Limited interaction between non-Governmental stakeholders and Government agencies on energy efficient measures</p> <p><i>Links:</i> VII.7.b. Prepare and consult on the results of the interviews, including recognising best performers</p>	Report on results published	DoE	Energy sector stakeholders (through NECF)	By June 2016	Govt: \$1,600