



Solomon Islands Government

National Energy Policy Framework

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Solomon Islands National Energy Policy Framework

1. INTRODUCTION

The National Energy Policy Framework sets out the Government's policies for the planning and management of the energy sector over the next 10 years. The framework defines the strategies that government is taking to ensure that the objectives of the policies are fully realised. In developing the energy policy framework government is mindful of the critical role of the energy sector in the attainment of its overall socio-economic development goals of improving the livelihood of all its peoples.

Important Policy Considerations for the Solomon Islands

There are three principal energy policy considerations detailed in the Solomon Islands National Energy Policy Framework, namely:

(i) Supply issues: For the Solomon Islands the provision of adequate, secure, and cost-effective energy supplies through the promotion of indigenous energy resources specifically renewable energy resources using the least cost options and to diversify the energy dependence among several types of sources and suppliers are critical. Diversifying the supply sources will also mean the Solomon Islands developing strategic partnerships locally and abroad.

(ii) Utilisation issues: The efficient utilization of energy and to discourage wasteful and non-productive patterns of energy consumption is vital for a country that is so dependent on imported energy sources.

(iii) Environmental issues: Like most Pacific Island countries the Solomon Islands have a fragile environment and government always places environmental issues high on its agenda. Therefore it is important that the energy policies are targeted at minimising the negative impacts of energy production, transportation, conversion, utilisation and consumption on the environment.

This policy framework provides details of how the government of the Solomon Islands can effectively address the three critical considerations highlighted above. Along this line the policy framework has identified twelve strategic areas on which appropriate policies are formulated.

A. Energy Sector Planning, Coordination and Management

B. Petroleum Sector

C. Transport Sector

D. Electricity Sector - Urban

E. Electricity Sector - Rural

F. Renewable Energy

G. Environment

H. Energy Conservation and Efficiency

I Capacity Building and Information

J. Legislation and Regulations

K. Financing
L. Gender

2. BACKGROUND

A. Energy Sector Planning, Coordination and Management

This strategic area covers the institutional aspects of energy sector planning and management. It is important that a well defined institutional structure is in place to coordinate energy sector planning and management. The role of the coordinating unit/organisation cannot be over emphasized given that energy cuts across all other sector development programmes. It is important appropriate level of well-trained staff are in posts to ensure that institutional capacity commensurate with expected function of the planning unit. In addition, resources such as funding, office space and equipment, tools and equipment for implementing projects, vehicles, computers, etc are vital to the execution and accomplishment of the institutional functions.

B. Petroleum Sector

The SI is heavily dependent on petroleum fuels to sustain its economy. It is only prudent for the Government to put in place appropriate policy statements that are able to cushion the negative impacts of escalating fuel prices. With an unlikely falling in fuel price to the 1990's price foreseen to happen immediately, practical and stringent measures by way of policies must be put in place to prevent further damage to the economy.

The provision of a secure, reliable and affordable fuel supply to both urban and rural areas is of paramount importance. Storage facilities and fuel supply infrastructure in the SI require stringent adherence to international and national safety standards. Fuel quality is also of importance and the development of national fuel standard is fundamental to an efficient and sustainable petroleum sector.

C. Transport Sector

The transport sector in the context of this policy framework constitutes land and sea modes of transportation. In the SI the transport sector is the biggest consumer for imported petroleum fuels. Measures will have to be devised to ensure that the transport sector functions efficiently. To reduce imported fuel consumption in the transport sector, research in alternative sources of fuel will have to be promoted. The importation of efficient vehicles into the country will need to be regulated and this will call for the revision of existing regulations and enactment of new ones.

D. Electricity Sector - Urban

The supply of electricity in the urban areas is the sole responsibility of the Solomon Islands Electricity Authority (SIEA). SIEA is a government statutory authority established under an Act of parliament and as such it is influenced by decisions directed by Government with regards its operation. It also has some commercial influence by virtue of its status (statutory authority).

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SIEA has a mix of generating plants – thermal and hydro. SIEA's operation was badly affected by the ethnic tensions of the early 2000. State of the power infrastructure has deteriorated over the years that needed rehabilitation. SIEA had also run into financial difficulties due to non-payment of electricity bills from its large power consumers and management limitation. This in a lot of ways affected SIEA's ability to supply power to Honiara on a continuous and reliable basis.

With assistance from strategic partners such as AUSAid and the Japanese Government, SIEA has been able to come out of its predicament to improve the power situation in Honiara through increased generation capacity, improved operational efficiency through a regular scheduled maintenance programme, upgraded distribution system and improved billing system. Training has been provided through the Japanese Government to enhance the skill levels of SIEA Engineers in both technical and management areas.

This improvement in operational efficiency and capacity building will enhance SIEA's capability to perform its functions effectively.

SIEA also has the responsibility of operating and managing some outer islands power supply systems. These are mainly provincial centres whose power demand is usually negligible forcing most of the systems to operate intermittently.

The restructuring of the urban power sector to allow Independent Power Producers (IPPs) and encouraging competition in the delivery of power services is a prudent policy measure.

E. Electricity Sector - Rural

The provision of electricity into the rural areas is seen as a high priority in the SI. Majority of the population live in the rural areas and access to electricity is below 20%. Generally, rural areas have always been neglected in terms of development. Infrastructure development to provide improved health, education, communication and transportation facilities and services are lacking. In certain remote areas, the facilities and services are non-existent.

It is envisaged that the policy statements highlighted here will compliment the Rural Electrification Framework currently being developed in conjunction with the review of the existing Electricity Act.

Policy measures encouraging the involvement of private investors and development of strategic partnerships with NGOs and donors will accelerate the provision of electricity into the rural areas.

F. Renewable Energy

Renewable energy is a fast growing industry worldwide. There are several characteristics that favour renewable energy over the traditional energy sources. The fact that it is renewable offers a guarantee that it will always be present and will never run out. It is a clean source of energy and does not emit any global warming gas. The technology used in harnessing the renewable energy source is easy to operate and maintain. The cost associated with operating a renewable energy project is only a fraction of the cost of operating a conventional energy technology such as a diesel generator used in a similar situation and application. Solar PV is used widely in the Pacific and there is capacity to handle design, installation, repairs and

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maintenance work in the Solomon Islands. Solomon Islands has great hydro-power potential resource (roughly 200-300MW in total) and needs careful planning to harness this source of energy to ensure its sustainability as a renewable energy source that the country can rely on. There is potential for harnessing of biomass (bio-fuel) also but the country needs to quantify the available energy we can tap from this resource. There are geothermal energy sources in some parts of the country. Investigations into how much wind energy potential the country has especially on parts of the country that are located further away from the equator need to be assessed to ascertain how wind energy could be utilized.

G. Environment

With more and more emphasis on the preservation of the environment, it is important that energy programmes are designed in such a way that they do not contribute further to the degradation of the environment. Energy sources especially fossil fuel based sources have been linked closely with the greenhouse gas emissions that are supposedly causing global warming and extreme changing weather patterns. It is therefore imperative for the Government to put in place energy policies that avoid any adverse impact on the fragile environment.

H. Energy Conservation and Efficiency

The efficient use of energy is the most important step to improve the environment and contribute to sustainable economic health. Energy efficiency links closely with environmental quality and economic vitality. Greater energy efficiency can reduce energy costs to consumers, enhance environmental quality, maintain and enhance the standard of living, increase energy security and promote a strong economy. It is therefore imperative that energy policies are put in place to assist in the efficiency with which we use energy in the generation and use of electricity, in our residences and offices, in the manufacturing sector and also in the transportation sector.

I Capacity Building and Information

Energy issues are always taken for granted in the SI. This is evident from the lack of emphasis and allocation of resources towards energy sector development in the development plans of past governments. In certain respects, this lack of commitment from governments contributes to the lethargy of the general population on energy issues.

The critical role energy plays in enhancing socio-economic growths highlights the importance of ensuring that the general population has a fair understanding of the energy issues affecting their livelihoods. This will require the collection and dissemination of information at levels of society. The introduction of energy programmes in the schools' curriculum (from primary to tertiary and technical institutions) will go a long way in facilitating understanding of energy issues in the SI.

The links between energy use and production to issues such as global warming and sea level rise makes it more urgent to put in place mechanisms that help build the capacity in the SI to put in place mitigating measures that do not compromise the quality of services needed.

Developing the skills and knowledge in energy planning and energy management in the SI is critical. This is an area where the public and private sectors both play key roles. While the public sector provides the enabling environment and regulatory framework, the private sector provides the much needed investment capital to promote energy sector development.

J. Legislation and Regulations

There are existing legislations that drive energy sector development in the SI and some are seen to be inhibitive and require updating and or overhauling. Energy legislations appear to be focused on the two major areas of power sector and petroleum sector. These two traditional energy sub-sectors have been dominating the energy sector with the latter being the primary source of energy that fuels economic growth in the SI. The transport sector is considered an important energy sub-sector because it is a major user of imported petroleum fuels. Legislations for the transport sector are deficient in energy use considerations. For example, the absence of energy efficiency and conservation measures from existing legislations might have contributed to the proliferation of inefficient and unnecessarily large privately owned vehicles. There is a need to review the existing legislations and their mechanisms to be consistent with the energy policy framework.

K. Financing

The lack of funding resources allocated to energy sector development over the past years has been a major barrier to realising the potential for this dynamic tool of development in the SI. Relying solely on public expenditure will put a strain on domestic public finances. Moreover, the public sector alone tends not to have the capacity to deliver large-scale infrastructure projects and meet quality standards in terms of service provision. It is therefore crucial that other sources of finance are mobilised. Private funding is an effective way of meeting this objective. It is therefore crucial that the policy framework ensures that the right financial and legal framework is in place to facilitate private investments in the energy sector.

L. Gender

Energy and gender issues are frequently being discussed and highlighted at international fora. Gender issues are linked closely to poverty and it has been recognised that addressing gender issues is a prerequisite to achieving sustainable development. Promoting gender issues is in keeping with international conventions and agreements. It has the noble goal of improving the livelihood of the disadvantaged groups with special reference to women issues. In the Solomon Islands energy and gender issues are not really well understood at all level of decision-making. In many instances this is due to cultural bias against women and outdated laws that restrict the active participation of women in decision-making or having independent access to control of income and ownership of property. The policy framework will ensure that the provision of energy services in the SI takes into consideration energy issues that affect the livelihood of women and other disadvantaged groups.

3. STRATEGIC PLAN

A. Energy Sector Planning, Coordination and Management

Goal: An effective and integrated approach to energy sector planning.

Policy Statements:

1. Ensure the Energy Division is provided with the appropriate level of trained staff, funding resources and equipment
2. Ensure effective consultation and coordination of energy programmes.

B. Petroleum Sector

Goal: An efficient and well-managed petroleum sector.

Policy Statements:

1. Ensure a reliable supply of quality petroleum products at minimum landed cost to all people in the SI.
2. Ensure that petroleum storage and handling facilities conform to local and international safety and environmental standards.
3. Ensure that there is sufficient holding capacity to satisfy ongoing consumer demand under normal re-supply schedules.
4. Ensure that wastes related to petroleum products are disposed off in an environmentally sound manner.
5. Encourage fuel conservation and efficient energy end-use.
6. Encourage research in alternative sources of energy.

C. Transport Sector

Goal: An efficient and well-managed transport sector.

Policy Statement:

1. Maximise fuel conservation and efficiency in the transport sector.
2. Minimise the detrimental impact of petroleum consumption in the transport sector on the land, atmospheric and marine environment.
3. Ensure close cooperation and coordination of organisations in the transport sector within the framework of the Energy/Petroleum Act and relevant Transport Management Strategy.

D. Electricity Sector - Urban

Goal: A reliable, affordable and efficient power supply system.

Policy Statements:

1. Ensure a reliable and affordable power supply system in all urban centres.
2. Promote energy conservation and efficiency measures in the power sector.

E. Electricity Sector – Rural

Goal: Provision of reliable, affordable and efficient electricity services.

Policy Statements:

1. Ensure the establishment of appropriate, reliable, affordable, and sustainable power supply systems in rural areas.

F. Renewable Energy

Goal: Optimal utilisation of renewable energy resources.

Policy Statements:

1. Promote the use of renewable energy resources.

G. Environment

Goal: Preservation of a clean and well-maintained environment.

Policy Statements:

1. Ensure minimal negative impacts of energy production, distribution and consumption on the environment.

H. Energy Conservation and Efficiency

Goal: Optimal use of energy sources.

Policy Statement:

1. Ensure that energy conservation and efficiency measures are promoted in all aspects of energy production and use.

I. Capacity Building and Information

Goal: A well-informed population on energy issues.

Policy Statements:

1. Promote capacity building, sharing and dissemination of information related to energy issues.

J. Legislation and Regulations

Goal: A well-regulated energy sector.

Policy Statement:

1. Ensure that appropriate legislations and regulations are in place.

K. Financing

Goal: A conducive financial environment for energy projects/programmes.

Policy Statements:

1. Ensure that appropriate financing mechanisms and equitable distribution of funds are in place.

L. Gender Issues

Goal: An equitable energy programmes.

Policy Statement:

1. Promote a gender- balanced energy programme

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4. WORK PLAN - ACTIVITIES

A. Energy Sector Planning, Coordination and Management

Policy 1:. Ensure the Energy Division is provided with the appropriate level of trained staff, funding resources and equipment.

| Strategy 1.1 Ensure that the Division has a staff development plan with adequate funding allocation. | | | | |
|--|----------------------------------|------------------------------------|--|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.1.1 Develop a staff training development plan and submit to Public Service Department (PSD). | Energy Division | A staff development is in place. | Funding resources available. | 2007 |
| 1.1.2 Prepare and submit a training budget | Energy Division | Annual budget submitted. | Assumption- Funding available. Risk – government does not allocate right level of funding. Mitigation – seek external funding. | Ongoing |

| Strategy 1.2 Secure appropriate level of funding and equipment. | | | | |
|---|----------------------------------|--|--|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.2.1 Prepare and submit annual budget allocation | Energy Division | Annual budget submitted to Ministry of Finance | Assumption- Funding available. Risk – government does not allocate right level of funding. Mitigation – seek external funding. | Ongoing |

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| Strategy 1.3 Ensure an appropriate and effective institutional structure is in place. | | | | |
|---|----------------------------------|------------------------------------|---|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.3.1 Review current structure | Energy Division | Review carried out | Assumption- Recommendations of the review exercise approved. Risk – Recommendations not approved | 2007 |
| 1.3.2 Recruit and train staff | Energy Division/PSD | New staff recruited | Assumption – There is interest to join the Energy Division. | Ongoing |

| Strategy 1.4 Ensure a capacity building mechanism is in place. | | | | |
|--|----------------------------------|--|---|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.4.1 Implement staff development plan and recommendations of the institutional structural review. | Energy Division | A formal capacity building plan agreed with PSD. | Assumption – PSD formally endorsed capacity building plan | Ongoing |

| Strategy 1.5 Ensure effective implementation of commitment to international treaties and conventions. | | | | |
|---|----------------------------------|------------------------------------|--|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.5.1 Identify and recruit additional staff | Energy Division/PSD | One additional staff recruited | PSD agreed to recruit additional staff | 2007 |

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Policy 2: Ensure effective consultation, participation and coordination of energy programmes.

| Strategy 2.1 Promote public private partnerships. | | | | |
|--|---|--------------------------------------|---|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 2.1.1 Review existing legislations and regulations | ED, Economic Reform Unit, Foreign Investment Division | Review process undertaken | Recommendations of the review accepted | 2007-2008 |
| 2.1.2 Develop and implement a framework for public-private partnerships. | ED, Economic Reform Unit, Foreign Investment Division | An appropriate framework is in place | There is interest from private sector to invest in the energy sector. | 2008 |

| Strategy 2.2 Promote energy sector networking and sharing of information. | | | | |
|--|----------------------------------|---|--|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 2.2.1 Establish a network of relevant stakeholders | ED | Network established | Assumption - Stakeholders willingness to participate | 2007 |
| 2.2.2 Produce and distribute bi-annual energy newsletter | ED | Energy newsletter produced and distributed | Assumption – funding available | Ongoing |
| 2.2.3 Develop an energy information questionnaire in collaboration with the Statistics Division. | ED, SIEA, Statistics Division | Questionnaire developed and energy data collected | Statistics Division willing to collaborate | 2007 |

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B. Petroleum Sector

Policy 1: Ensure a reliable supply of quality petroleum products at minimum landed cost to all people in the SI.

| Strategy 1.1 Ensure an appropriate regulatory framework is in place. | | | | |
|--|--|------------------------------------|--|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.1.1 Review existing supply chain mechanism and regulations. | ED, Price Control Unit, Oil companies, Shipping Agents, Bio-fuel companies | Existing mechanism reviewed | There is a genuine need for a review. | 2007 |
| 1.1.2 Implement recommendations as per 1.1.1 | ED, Price Control Unit | Recommendations implemented | Recommendations approved by appropriate authority. | 2007 |

| Strategy 1.2 Ensure Government ownership of storage facilities | | | | |
|--|----------------------------------|---|---|-------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.2.1 Undertake a life cycle cost and benefit analysis of government taking ownership of the storage facilities. | ED | Life cycle cost and benefit analysis carried out. | There is the political will to own storage facilities | 2007 - 2008 |

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|---|----|---|---|------|
| 1.2.2 Produce and submit a Cabinet information paper on fuel storage ownership. | ED | Information paper submitted to Cabinet. | Cabinet considers concept favourable. | 2007 |
| 1.2.3 Implement Cabinet decision | ED | Government builds own storage facilities. | Fuel security enhanced. Technical skills and knowledge enhanced. | 2008 |

| Strategy 1.3 Promote petroleum fuel substitution. | | | | |
|--|----------------------------------|--|---|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.3.1 Demonstrate the use of coconut bio-fuel and ethanol for electricity generation and as a transportation fuel. | ED and private sector | Vehicles running on bio-fuel Widespread use of bio-fuel for electricity generation. | Technology compatibility – not much modification needed | 2007 |
| 1.3.2 Conduct awareness programmes on potential/benefits for bio-fuels and other alternative fuels. | ED | Public consultations carried out. Radio and TV programmes developed and broadcast. Posters and pamphlets produced and distributed. | Funding available for producing and broadcasting awareness materials. | 2007 |

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| Strategy 1.4 Improve handling and supply of petroleum fuels to all consumers. |
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| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
|--|----------------------------------|------------------------------------|---|------------|
| 1.4.1 Develop, implement and monitor a regulatory framework for safe transportation, handling and storage of petroleum fuels | ED | An appropriate framework in place. | Both human and financial resources available. | 2007-2009 |

Policy 2:

Ensure that petroleum storage and handling facilities conform to local and international safety and environmental standards.

| Strategy 2.1 Ensure regular monitoring of standards for petroleum storage and handling facilities. | | | | |
|--|----------------------------------|------------------------------------|---|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 2.1.1 Carry out a six monthly inspection of all petroleum fuel storage facilities. | ED, Environment Department | Reports available. | A qualified petroleum officer is in post. | Ongoing |

| Strategy 2.2 Ensure the Energy Division has the capacity to plan and manage the petroleum sector. | | | | |
|---|----------------------------------|------------------------------------|--|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 2.2.1 Recruit a qualified petroleum officer | ED, PSD | An officer in post | Conditions attractive to attract qualified person. | 2007 |

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|--|--|----------------------------------|--|------|
| 2.2.2 Provide targeted training programmes for staff | ED, Education, PSD | Training programme established | Funding and resource personnel available | 2007 |
| 2.2.3 Establish a national petroleum database | ED, Oil Companies, Statistics Division, Customs Department, Retailers. | A petroleum database established | Willingness of key organisations to share data | 2007 |

| Strategy 2.3 Strengthen enforcement of safety standards | | | | |
|--|---|---|--|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 2.3.1 Establish a national safety standard and fuel quality. | ED, Environment Department, Department of Infrastructure and department of Commerce and Trade | A national standard in place and testing of fuel quality carried out on a regular basis | Technical assistance available to the SIG. | 2008 |
| 2.3.2 Review existing penalty clause for breach of safety standards. | ED, AGC, Provincial Governments, Honiara City Council | Recommendations implemented | Shortage of manpower in the AGC Chamber may delay implementation of recommendations. | 2008 |

Policy 3: Ensure that there is sufficient holding capacity to satisfy ongoing consumer demand under normal re-supply schedules.

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| Strategy 3.1 Maintain a minimum volume of petroleum fuels. |
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| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
|--|----------------------------------|--|---|------------|
| 3.1.1 Carry out an assessment of fuel consumption and existing storage capacity. | ED and Oil companies, SIEA | Minimum storage capacity and consumption known | Willingness of oil companies and other key organisations to collaborate | 2007 |

Policy 4: Ensure that wastes related to petroleum products are disposed off in an environmentally sound manner.

| Strategy 4.1 Ensure a contingency oil spill plan is in place. | | | | |
|---|---|------------------------------------|--|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 4.1.1 Develop a contingency oil spill plan | ED, Environment Department, NDMO, Oil companies | A contingency plan in place | Commitment and cohesiveness of all parties | 2008 |

| Strategy 4.2 Ensure there is regulation for the disposal of petroleum related waste. | | | | |
|---|----------------------------------|------------------------------------|--|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 4.2.1 Collaborate with the Department of Environment to develop appropriate regulations | ED, Environment Department, AGC | Appropriate regulations in place | There is capacity to develop, implement and monitor regulations. | 2008 |

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Policy 5: Encourage fuel conservation and efficient energy end-use.

| Strategy 5.1 Encourage the use of public transport. | | | | |
|--|--|---------------------------------------|--|----------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 5.1.1 Monitor standard of public transport | Department of Infrastructure Development (DID), ED | Improved standard of public transport | Incentives and penalties sufficient to maintain standard | 2007 (ongoing) |
| 5.1.2 Conduct awareness programmes on benefits of improved public transport system | ED, DID | More people use public transport | More people use public transport | 2007 (ongoing) |

Policy 6: Encourage research in alternative sources of energy.

| Strategy 6.1 Promote the use of non-fossil fuels. | | | | |
|--|---|--|-------------------------------|----------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 6.1.1 Develop a subsidy scheme for the non-fossil fuel industry | Finance Department, Department of Agriculture, ED | A subsidy scheme in place | Political will | 2007 (ongoing) |
| 6.1.2 Create incentives for private investors | ED, Finance Department, Department of Commerce | Increased private sector participation in bio-fuel | Attractive incentives | 2007 (ongoing) |
| 6.1.3 Develop a national bio-fuel standard for transportation and electricity generation | ED, Department of Agriculture, AGC | A bio-fuel standard in place | More people using bio-fuel. | 2007 |

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C. Transport Sector

Policy 1: Maximise fuel conservation and efficiency in the transport sector.

| Strategy 1.1 Regulate and encourage the importation of energy efficient vehicles. | | | | |
|--|----------------------------------|---|--|----------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.1.1 Advise and raise awareness on the benefits of a minimum energy efficiency standard for vehicles. | ED, DID | A minimum energy standard regulation adopted for all government vehicle fleet | Assumption - Willingness of all government departments to collaborate. | 2007 (ongoing) |
| 1.1.2 Collaborate with DID for setting a national minimum energy efficiency standard for vehicles | ED, DID | A national minimum energy efficiency standard adopted | Assumption - Political will | 2007 |

| Strategy 1.2 Regulate a minimum seating capacity of public transport | | | | |
|--|----------------------------------|------------------------------------|-------------------------------|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.2.1 Collaborate with DID for a study of the public transportation system | ED, DID, HCC | Study carried out | Funding for study available | 2007 |

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|--|--------------|---------------------|----------------|------|
| 1.2.2 Regulate a minimum seating capacity for public transport | DID, ED, HCC | Regulation in place | Political will | 2008 |
|--|--------------|---------------------|----------------|------|

Strategy 1.3 Promote fuel conservation and efficiency in the rural areas.

| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
|--|----------------------------------|--|-------------------------------|------------|
| 1.3.1 Produce and disseminate information pamphlets and media campaign in Pidgin English on fuel efficiency measures | ED | Pamphlets produced and disseminated. Radio and TV programmes broadcast | Funding availability | 2007 |

Policy 2: Minimise the detrimental impact of petroleum consumption in the transport sector on land, atmospheric and marine environment.

Strategy 2.1 Regulate a smoke emission standard for all vehicles.

| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
|---|------------------------------------|------------------------------------|-------------------------------|-------------|
| 2.1.1 Collaborate with DID and the Department of Environment on the development of a guideline for smoke emission | ED, DID, Department of Environment | Guideline in place | Willingness to collaborate | 2008 - 2009 |

Strategy 2.2 Promote awareness on detrimental impacts of fossil fuels consumption in the transport sector.

| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
|------------|----------------------------------|------------------------------------|-------------------------------|------------|
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|---|-------------------------------|-----------------------------------|----------------------|------|
| 2.2.1 Develop and carry out awareness campaigns on impacts of fossil fuel use | ED, Department of Environment | Radio and TV programmes broadcast | Funding availability | 2008 |
|---|-------------------------------|-----------------------------------|----------------------|------|

Policy 3: Ensure close cooperation and coordination of organisations in the transport sector within the framework of the Energy/Petroleum Act and relevant Transport Management Strategy.

| Strategy 3.1 Encourage the establishment of an advisory committee for energy, transport and petroleum issues. | | | | |
|---|----------------------------------|--|-------------------------------|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 3.1.1 Establish an National Energy Advisory Committee | ED | National Energy Advisory Committee established | Stakeholder participation | 2007 |
| 3.1.2 Regulate the sharing of information amongst stakeholders | ED, AGC | Regulation in place | Stakeholder participation | 2007 |

D. Electricity Sector - Urban

Policy 1: Ensure a reliable and affordable power supply system in all urban centres.

| Strategy 1.1 Promote the opening up of the electricity sector to new players. | | | | |
|---|----------------------------------|------------------------------------|---|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.1.1 Amend the current Electricity Act | ED, SIEA, AGC | Electricity Act amended | Lack of staff in key organisations may delay work | 2007 |

Policy Statements, Strategic Plan, Action Plan 2007 -2009.

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|---|-------------------------|--|---|--------------|
| 1.1.2 Develop a framework for Independent Power Producers | ED, AGC, SIEA | IPP agreement in place | There is interest from private investors to participate | Ongoing |
| 1.1.3 Remove legislative barriers to the participation of the private sector. | ED, AGC, SIEA | Private investor agreements in place | There is interest from private investors to participate | 2008 |
| 1.1.4 Provide incentives to private sector participation in urban power supply. | ED, Ministry of Finance | Incentives in place A PPA reached between Guadalcanal Plains Palm Oil Ltd mill and SIEA | Political will There is surplus energy available at Guadalcanal Plains Palm Oil Ltd. | 2008 2009 |

| Strategy 1.2 Promote the use of renewable energy for power generation. | | | | |
|--|----------------------------------|---|--|---|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.2.1 Development of Hydro-power for Honiara-Gold Ridge and other provincial centres | ED, SIEA | Funding made available | Land owners willingness to provide land | Honiara – 2008 Other sites 2008-2009 |
| 1.2.2 Investigate potential for wind and biomass | ED, SIEA, Aid donors | Potential wind, biomass and geothermal sites identified | Funding availability | Wind - 2007 Biomass – 2007 |
| 1.2.3 Conversion to bio-fuel (coconut oil) for power generation. | ED, World Bank | Some grid schemes run on bio-fuel | Enough coconut oil available in the country for use as diesel substitute | 2008 |

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|---|
| Strategy 1.3 Ensure that SIEA have the technical and managerial expertise necessary for running a power supply company. |
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| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
|--|-------------------------------------|---------------------------------------|---|------------|
| 1.3.1 Establish a management contract agreement for SIEA | ED, SIEA, AGC, ERU | Management contract in place | Risk – management contract does not deliver to expectations | 2007 |
| 1.3.2 Facilitates staff development of SIEA | SIEA | A training development in place | Funding availability | 2007 |

| Strategy 1.4 Encourage a tariff structure that takes into considerations both the consumers and utility's concerns. | | | | |
|---|-------------------------------------|---------------------------------------|---------------------------------------|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.4.1 Carry out a national electricity tariff study | ED, SIEA | Tariff study carried out | Funding available | 2007 |
| 1.4.2 Implement recommendations of tariff study | SIEA | New tariff structure in place | Key players agreed on recommendations | 2008 |

Policy 2: Promote energy conservation and efficiency measures in the power sector.

| Strategy 2.1 Encourage supply and demand side management. | | | | |
|---|-------------------------------------|---------------------------------------|----------------------------------|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |

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|---|---|---|--|-------------|
| 2.1.1 Carry out awareness campaign on energy efficiency and conservation measures | ED, SIEA, Private sector | Radio and TV programmes broadcast Newspaper articles pamphlets produced More people adopt energy efficiency measures | Funding available for campaigns | 2007 |
| 2.1.2 Regulate the importation of energy efficient equipment and appliances | ED | Regulation in place | Political will | 2008 |
| 2.1.3 Enforce the licensing of personnel working in the power sector | National Trade Testing Centre, SIEA, ED | Only licensed personnel involved in power installation work | There is enough personnel to enforce the regulations | 2007 - 2008 |

E. Electricity Sector - Rural

Policy1: Ensure the establishment of appropriate, reliable, affordable, and sustainable power supply systems in rural areas.

| Strategy 1.1 Promote an appropriate regulatory and institutional set up for rural electrification. | | | | |
|--|----------------------------------|------------------------------------|-------------------------------|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.1.1 Set up a Rural Electrification Unit | ED | Rural Electrification Unit set up | Political will | 2007 |
| 1.1.2 Establish a revolving fund for rural electrification | ED, Central Bank of SI (CBSI) | Revolving fund established | Political will | 2007 |

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| Strategy 1.2 Encourage private sector participation in rural electrification. | | | | |
|---|----------------------------------|---|---|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.2.1 Remove barriers for private sector participation | ED, AGC, SIEA | More private investors participating in rural electrification | Attractive incentives to entice private investors Land issues resolved | 2007 |
| 1.2.2 Develop guidelines for private sector participation | ED, AGC | Guideline in place | Attractive incentives to entice private investors | 2008 |

| Strategy 1.3 Encourage the use of renewable energy for rural electrification. | | | | |
|--|----------------------------------|---|--|----------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.3.1 Install 50 solar home systems per year | ED, Private sector | 50 households electrified with solar PV | Funding available Political will | 2007 (ongoing) |
| 1.3.2 Install two hydro scheme per annum | ED, Private sector | 2 hydro small schemes installed | Funding available Land ownership issue resolve Political | 2007 (Ongoing) |
| 1.3.3 Install one biogas plant | ED | A biogas plant installed | Funding available Technical assistance available | 2007 |
| 1.3.4 Install nine bio-diesel power generation mini-grid systems in rural villages | ED, Private sector | Nine villages electrified through Bio-diesel power generation | Funding availability Resources availability | 2007 - 2009 |

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| Strategy 1.4 Promote establishment of industries in rural areas to support electrification programmes. | | | | |
|---|--|---|--|----------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.4.1 Provide energy services to existing industries, schools, health centers, agriculture and fishery centers. | ED, Department of Agriculture, Fishery, Health and Education Departments And private industries | A priority list for provision of energy services developed. | Funding availability Political expediency | 2007 (ongoing) |

| Strategy 1.5 Encourage public private partnership in the provision of power supply in rural areas. | | | | |
|--|----------------------------------|------------------------------------|--|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.5.1 Develop a framework for public and private partnership | ED | A framework in place | Attractive incentive for public and private sector collaboration | 2008 |

F. Renewable Energy

Policy 1: Promote the use of renewable energy resources.

| Strategy 1.1 Increase public awareness on the benefits of renewable energy. | | | | |
|---|----------------------------------|------------------------------------|-------------------------------|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
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|---|---------------------------|--|---|----------------|
| 1.1.1 Develop information materials for public awareness programmes | ED | TV and radio materials produced Newspaper articles and pamphlets produced | Funding availability | 2007 (ongoing) |
| 1.1.2 Collaborate with the Ministry of Education for inclusion of renewable energy in the schools' curriculum | ED, Ministry of Education | Both primary and secondary curriculum include renewable energy | Funding availability Curriculum resource personnel available Current curriculum does not include renewable energy | |

Strategy 1.2 Promote incentives for the use of renewable energy technologies.

| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
|--|----------------------------------|---|--|------------|
| 1.2.1 Provide tax incentive for the use of renewable energy technologies | Ministry of Finance | Duty exemption on renewable energy technologies | Political will | 2007 |
| 1.2.2 Provide micro financing facility to potential users | ED, Commercial Banks | Micro financing mechanism in place | Attractive conditions to potential consumers | 2007 |

Strategy 1.3 Ensure there is in-country capacity to implement renewable energy projects.

| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
|------------|----------------------------------|------------------------------------|-------------------------------|------------|
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|--|---------------------------|---|---|---------|
| 1.3.1 Develop technical training programmes in collaboration with the Ministry of Education for renewable energy technicians | ED, Ministry of Education | Technical training programmes adopted in technical institutions | Human and financial resources available | 2008 |
| 1.3.2 Organise short term technical training for energy officers and the private sector | ED, Training institutions | Short term training identified and attended | Funding available | ongoing |

Strategy 1.4 Ensure the renewable energy resources are used in an economically and environmentally sustainable manner.

| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
|---|----------------------------------|------------------------------------|---|------------------|
| 1.4.1 Carryout EIA on major renewable energy projects | ED, Department of Environment | EIA carried out | There is little detrimental environmental impacts | Project specific |

Strategy 1.5 Promote and or support research and development of appropriate renewable energy technologies.

| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
|---|----------------------------------|---|-------------------------------|------------|
| 1.5.1 Establish laboratory for research and development | ED | Laboratory established | Funding available | 2009 |
| 1.5.2 Provide logistical and funding support to innovative renewable energy initiatives | ED | Technical advice and funding support provided | Funding available | Ongoing |

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| Strategy 1.6 Encourage partnership in development of renewable energy with private sector | | | | |
|---|----------------------------------|------------------------------------|---|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.7.1 Develop a framework for public and private partnership | ED | A framework in place | There is interest from the private sector | 2008 |

G. Environment

Policy 1: Ensure minimal negative impacts of energy production, distribution and consumption on the environment.

| Strategy 1.1 Ensure that energy resources are consumed in an environmentally sustainable manner. | | | | |
|--|----------------------------------|------------------------------------|--------------------------------------|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.1.1 Carryout EIA on all energy projects | ED, Environment Department | EIA carried out | Human and funding resource available | Ongoing |
| 1.1.2 Enforce safety measures in the planning and construction of energy projects | ED, Labour Department | Guideline in place | Human and funding resource available | Ongoing |
| 1.1.3 Develop a recycling strategy for batteries and other reusable energy items | ED and Environment Department | Recycling strategy in place | Human and funding resource available | 2009 |

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| Strategy 1.2 Ensure and maintain co-operation and coordination of organisations in the energy sector within the framework of the Environmental Act and the relevant Environmental Management Strategy. | | | | |
|--|----------------------------------|------------------------------------|-------------------------------|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.2.1 Establish a mechanism for cooperation amongst key organisations | ED | Mechanism for cooperation in place | Key stakeholders cooperate | 2008 |

H. Energy Conservation and Efficiency

Policy 1: Ensure that energy conservation and efficiency measures are promoted in all aspects of energy production and use.

| Strategy 1.1 Promote the use of appliance labelling and energy efficiency ratings. | | | | |
|--|---|--|--------------------------------|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.1.1 Develop a minimum energy performance standard for refrigerators and freezers | ED, Importers, Retailers and Chamber of Commerce. | Minimum energy performance standard in place | Retailers cooperation obtained | 2008 |

| Strategy 1.2 Promote appropriate energy efficient equipment and technology | | | | |
|--|----------------------------------|------------------------------------|-------------------------------|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| | | | | |

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|---|---|---|---|----------------|
| 1.2.1 Develop, implement and enforce a national efficiency and safety standards for energy technologies, equipment and appliances | ED, Customs and Exercise Division, Consumer Affairs and Price Control Division, Labour Division | National efficiency standard implemented. | Resources available to monitor standard | 2008 (ongoing) |
|---|---|---|---|----------------|

I Capacity Building and Information

Policy 1: Promote capacity building, sharing and dissemination of information related to energy issues.

| Strategy 1.1 Ensure energy issues are incorporated into the school curriculum. | | | | |
|---|----------------------------------|--|---------------------------------------|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.1.1 Collaborate with the Ministry of Education for the inclusion of energy in the schools' curriculum | ED, Ministry of Education, SIEA | Primary, secondary and other training institutions' curriculum include energy issues | Human and funding resources available | 2008 |

| Strategy 1.2 Promote trainings in energy related fields. | | | | |
|--|----------------------------------|---------------------------------------|-------------------------------|----------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.2.1 Identify training needs in the energy sector | ED | Training needs assessment carried out | Training available locally | 2007 (ongoing) |

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|---|--------------|------------------------------------|-------------------|------|
| 1.2.1 Collaborate with Public Service Division and National Training Unit on the development of an energy related training programmes | ED, PSD, NTU | Energy Training programme in place | Funding available | 2007 |
|---|--------------|------------------------------------|-------------------|------|

Strategy 1.3 Promote community training in planning, and management of energy projects.

| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
|---|----------------------------------|------------------------------------|--------------------------------------|------------|
| 1.3.1 Conduct community training programmes in planning and management of energy projects | ED, NGOs | Training manual developed | Community based projects implemented | Ongoing |

Strategy 1.4 Ensure wider consultations on policy issues, legislation and regulations.

| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
|------------------------------------|----------------------------------|------------------------------------|-------------------------------------|------------|
| 1.4.1 Conduct public consultations | ED | Public consultations carries out | Public participate in consultations | Ongoing |

J. Legislation and Regulations

Policy 1: Ensure that appropriate legislations and regulations are in place.

Strategy 1.1 Promote the removal of legislative barriers for the implementation of the energy programmes.

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| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
|-------------------------------|----------------------------------|------------------------------------|-------------------------------|------------|
| 1.1.1 Review Electricity Act | ED, AGC | Electricity Act review completed | Recommendations accepted | 2007 |
| 1.1.2 Review of Petroleum Act | ED, AGC | Petroleum Act review completed | Recommendations accepted | 2008 |
| 1.1.3 Develop an Energy Act | ED, AGC | Energy Act in Place | Political will | 2010 |

K. Financing

Policy 1: Ensure that appropriate financing mechanisms and equitable distribution of funds are in place.

| Strategy 1.1 Ensure appropriate mechanisms are in place to access funding. | | | | |
|--|----------------------------------|------------------------------------|---|----------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.1.1 Establish a levy of 2 cents per litre on petroleum fuels | ED, Ministry of Finance | 2 cents levy implemented | Political will | 2007 |
| 1.1.2 Establish a micro-financing scheme for energy projects | ED, Commercial Banks | Micro- financing scheme in place | Commercial banks willing to participate | 2007?? |
| 1.1.3 Develop funding proposals to access funding available under bilateral and international conventions and treaties | ED | Proposal developed and submitted | Funding secured | 2007 (ongoing) |

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| Strategy 1.2 Ensure equitable and fair distribution of fund to both national and provincial governments. | | | | |
|--|----------------------------------|------------------------------------|-------------------------------|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.2.1 Develop a framework for equitable funding energy projects | ED | Framework in place | Political will | 2008 |

L. Gender

Policy 1: Promote a gender balanced energy programme.

| Strategy 1.1 Ensure that the different energy needs are equally addressed and promoted at all levels of society. | | | | |
|--|----------------------------------|------------------------------------|--|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.1.1 Conduct gender needs assessment for all energy projects | ED | Needs assessment carried out | Gender needs are incorporated into the planning of energy projects | Ongoing |

| Strategy 1.2 Raise awareness on the advantages and benefits of energy technologies on households. | | | | |
|---|----------------------------------|---|---|------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.2.1 Collaborate with Ministry of Women, Youth & Sports in promoting improved cooking stoves | ED, Ministry of Women. | Many households use improved cooking stoves | General acceptance of improved cooking stoves | Ongoing |

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| Strategy 1.3 Promote gender balanced training in energy related fields | | | | |
|---|----------------------------------|--------------------------------------|--|----------------|
| Activities | Lead organisation [Stakeholders] | Indicators [Means of verification] | Assumption/Risks [Mitigation] | Time Frame |
| 1.3.1 Conduct training programmes for women on energy efficiency measures | ED, Ministry of Women | Three training workshops carried out | Funding available | 2007 (ongoing) |
| 1.3.2 Recruit at least one female staff in the ED | ED, PSD | One female energy officer recruited | Females interested in working in the Energy Division | 2007 |