

An aerial photograph of a tropical coastline. In the foreground, a small bay with clear, shallow water leads to a sandy beach. The surrounding land is lush with green vegetation. In the background, several prominent, jagged mountain peaks rise against a clear blue sky. The overall scene is scenic and idyllic.

*Energy Development in Saint Lucia:  
Challenges and Opportunities*

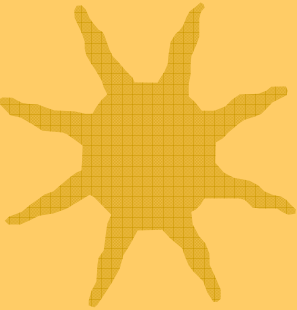
**Judith Ephraim**

**Ministry of Physical Development,  
Environment and Housing, Saint Lucia**

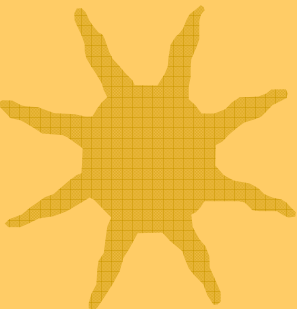


# *Major Developments in the Energy Sector*

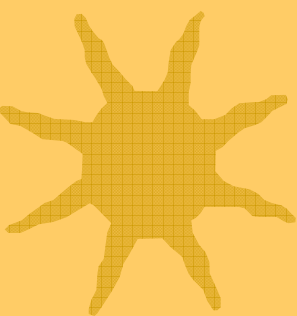
---



★ **1999**-COP 5 -declaration to become “Sustainable Energy Demonstration Country” by 2008-2012



★ **2001** -National Sustainable Energy Plan

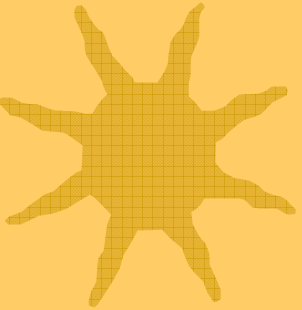


★ **2004**-Greenpaper on National Energy Policy

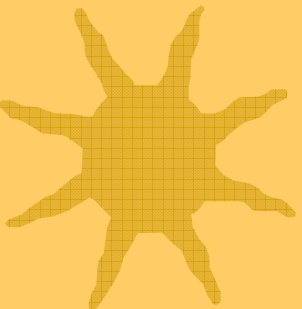


# *St. Lucia's Sustainable Energy Plan*

---



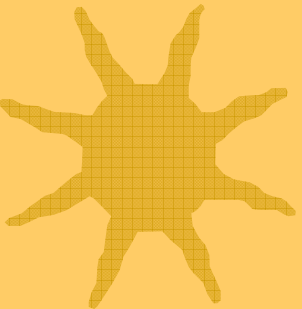
★ Adequate energy supplies to sustain economic development



★ Stability, Reliability and Security of energy supply

★ Energy Efficiency and Conservation

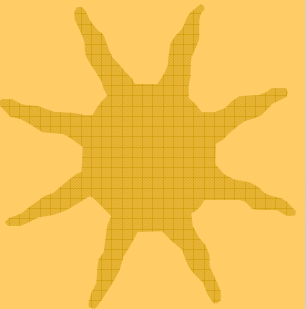
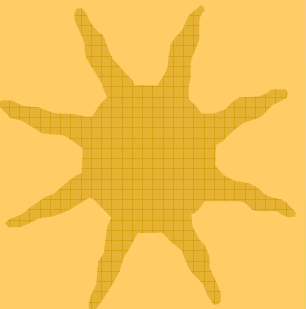
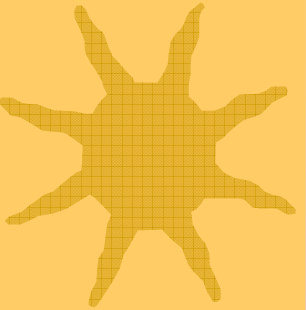
★ Investment in Energy



★ Protection of local and global environments



# *Sustainable Energy Plan Targets*



## **ELECTRICITY SECTOR TARGETS**

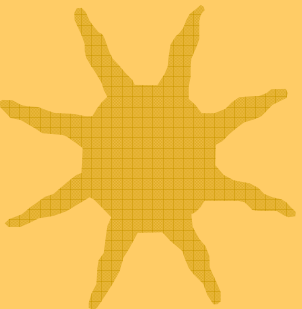
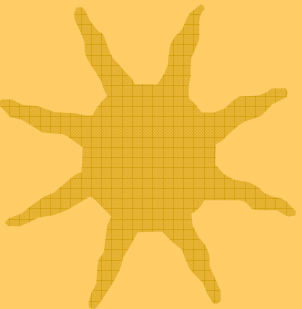
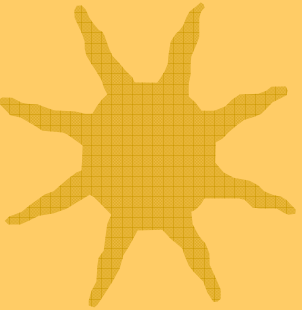
<b>Year</b>	<b>Target Peak Demand (% reduction from baseline)</b>	<b>Target Installed Capacity (% reduction from baseline)</b>	<b>Target Renewable Energy Installed (% of total installed capacity)</b>	<b>Diesel Fuel Consumption (% reduction from baseline)</b>	<b>GHG Emissions (% reduction from baseline)</b>
2005	51 MW (5% reduction)	75 MW (5% reduction)	5 MW (7% of total)	436 579 barrels (12% reduction)	166 197 tons of carbon equiv. (12 % reduction)
2010	55.7MW (15% reduction)	77.4 MW (15% reduction)	17 MW (20% of total)	392 823 barrels (35% reduction)	149 539 tons of carbon equiv. (35 % reduction)



## *Today's Situation*

---

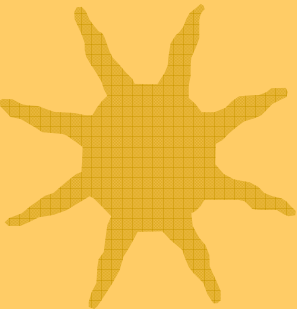
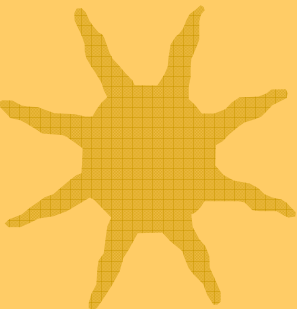
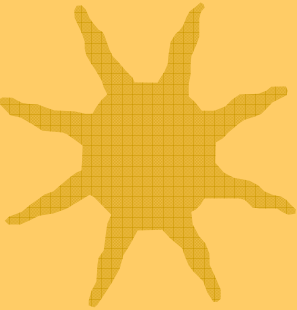
- ★ Current Installed capacity of 55.6MW and peak demand of 45MW
- ★ Total dependence on diesel-powered generators
- ★ Transportation is fuelled mainly by gasoline and diesel
- ★ Current Greenhouse Gas Emissions from the electricity sector -156,530 tons of CO<sub>2</sub>





# *Current Energy Initiatives*

---

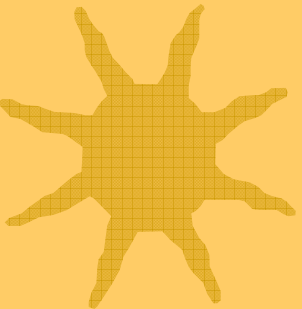
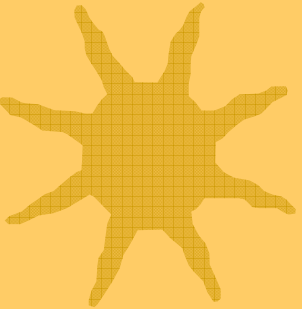
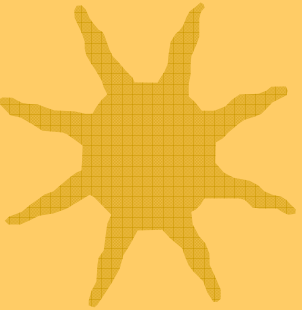


- ★ Public Awareness and Education-e.g. National Energy Awareness Week
- ★ Capacity building for energy auditing
- ★ Support for establishment of ESCOs
- ★ Efficient Lighting for Saint Lucia Project
- ★ Renewable Energy Projects
  - CREDP
  - Geothermal Development
  - LUCELEC's Pilot Wind Energy Project



# *Energy Policy Recommendations-1*

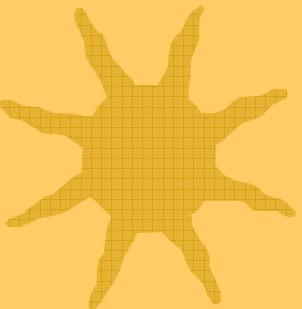
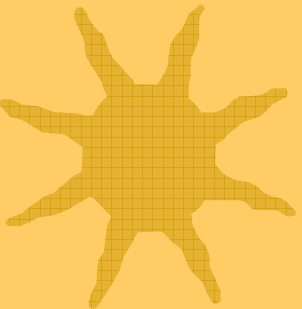
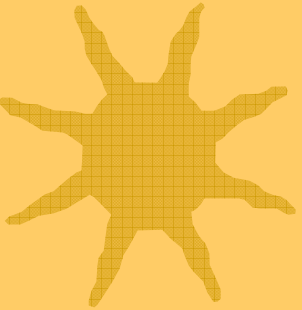
- ★ **Energy Supplies at the Least Economic Cost Through Public and Private Participation, Deregulation and Liberalisation**
- ★ **Diversification of Energy Base**
- ★ **Development of Indigenous Energy Resource Base and Ensuring Security of Energy Supplies**
- ★ **Efficiency in Energy Production, Conversion and Efficient use of Energy**





## *Energy Policy Recommendations-2*

- ★ **Reduction of Adverse Environmental Effects and Pollution**
- ★ **Implementation of the Appropriate Pricing Policies**
- ★ **Establishment of appropriate regulatory framework to protect the consumer and investors**

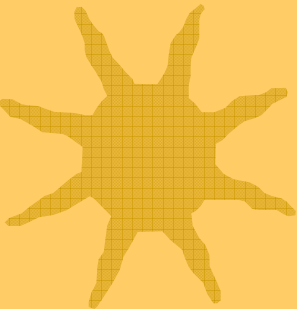
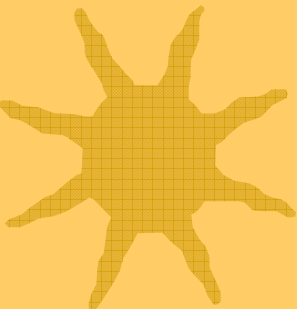
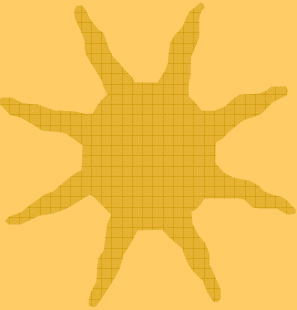






# *Energy Policy – Issues to considered*

---

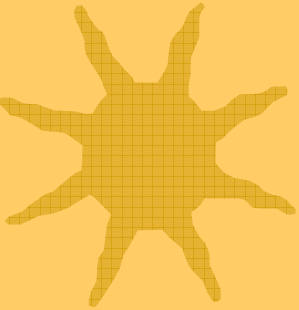


- ★ Impacts of liberalisation and deregulation
- ★ IPP and Cogeneration
- ★ Price regulation and competition
- ★ Economic feasibility and Affordability concerns
- ★ Subsidies and taxation
- ★ Consumer protection

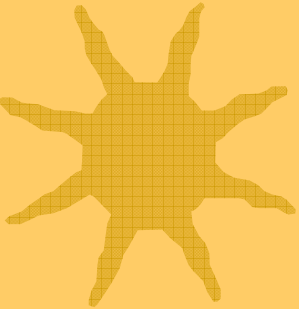


# *Energy Sector other challenges-1*

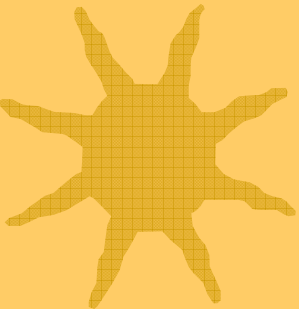
---



★ **Escalating prices at the pumps**



★ **Untuned financial sector**



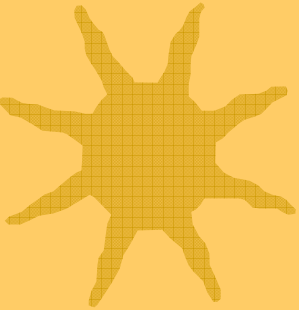
★ **Sourcing of energy efficient/ renewable energy products and high start –up costs**

★ **Insufficient Awareness/ Complacency**

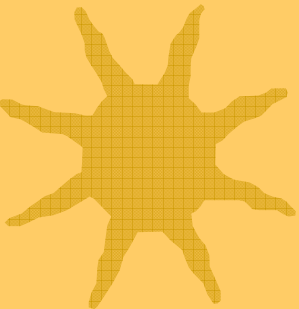


## *Energy Sector other challenges-2*

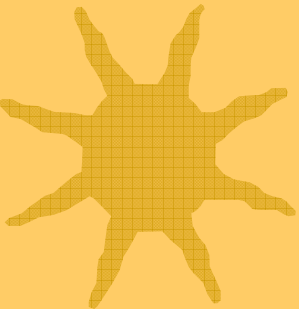
---



★ **Limited Research and Development capabilities**



★ **Inadequate capacity (human and institutional)**



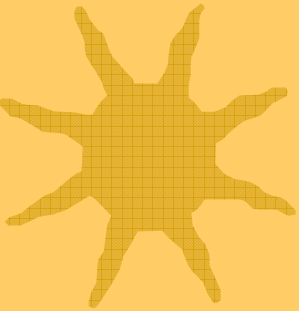
★ **Resource mapping**

★ **Transportation sector**

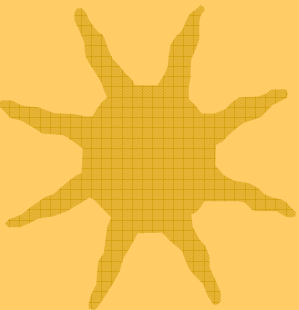


# *Opportunities for Energy Sector-1*

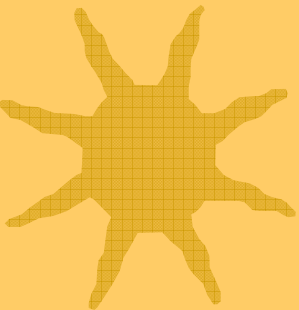
---



★ Rising prices make alternative energy more attractive



★ Growing awareness of energy issues



★ Regional initiatives (CREDP, ECGP etc)

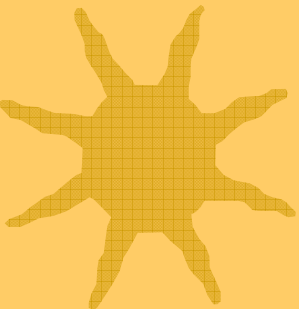
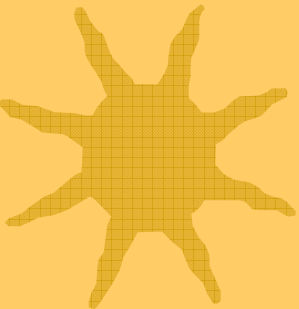
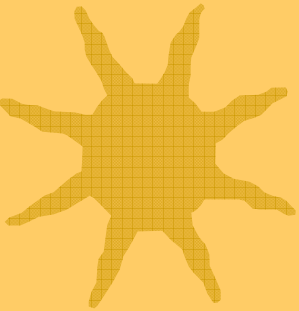
★ Indigenous Geothermal, Solar, Biomass and Wind resources

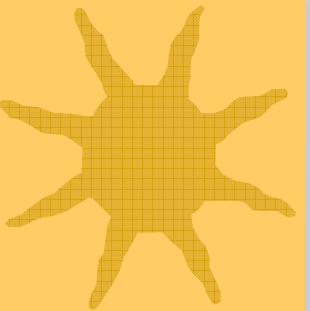
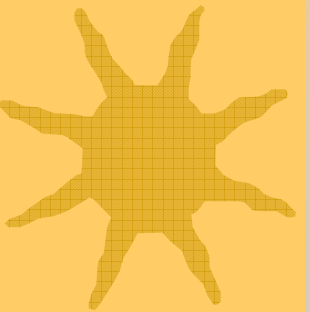
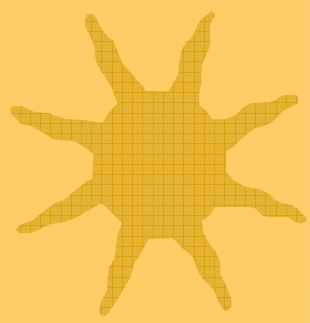


## *Opportunities for Energy Sector-2*

---

- ★ Applications in transport, tourism and agriculture sectors
- ★ Policy and legislation support
- ★ Education and capacity building





*Thank You*

---