

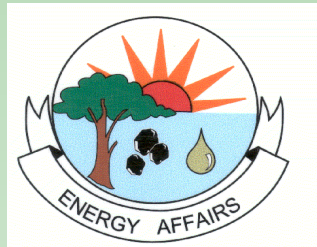
# PRESENTATION

on

## Energy Efficiency and Business Partnership Opportunities in Botswana

By

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# *What is Energy Efficiency*

- ⊕ More efficient use of energy, without sacrificing comfort, production level, product quality or safety level
- ⊕ It is the quickest, cheapest and cleanest way to reduce energy use and pollution.
- ⊕ Energy Conservation should be based on cost effectiveness.
- ⊕ In the offices about 40% energy can be saved by proper energy conservation measures.

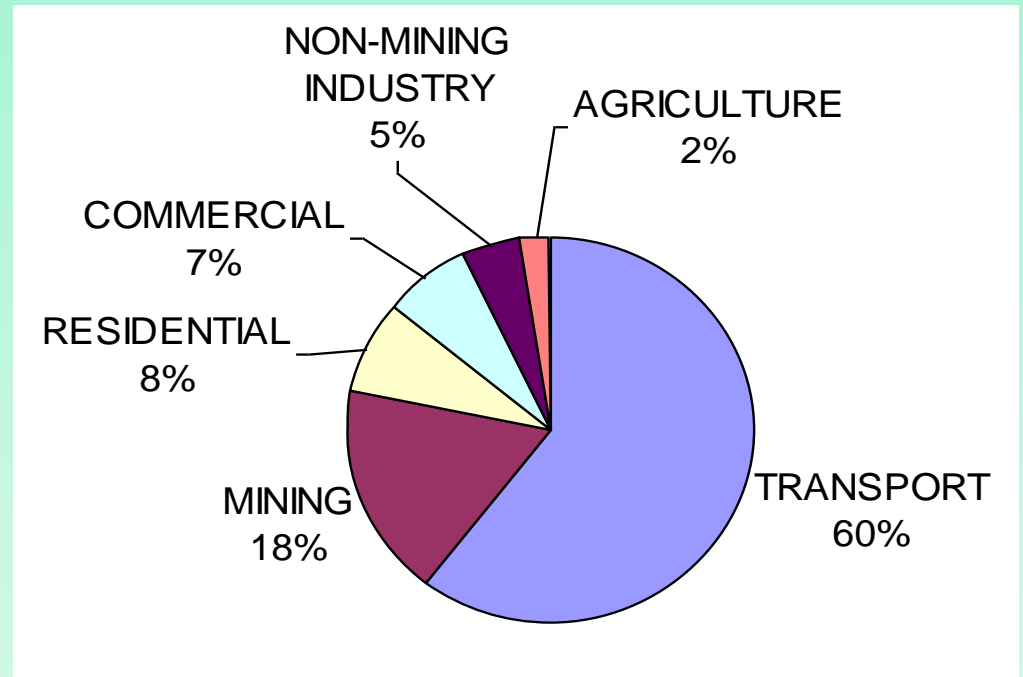
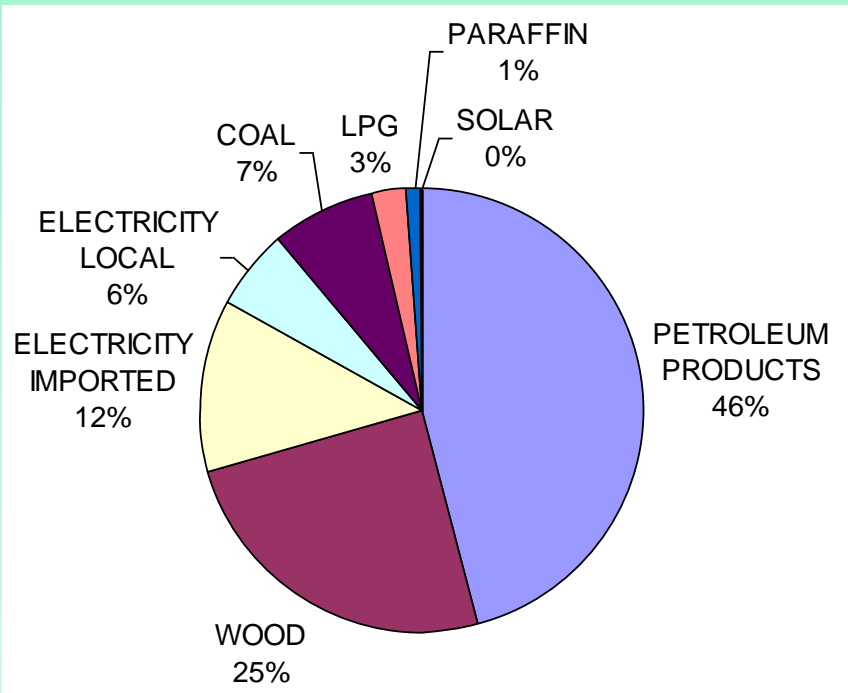
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# *Motivation for Energy Efficiency*

- ⊕ Energy Efficiency is a concern to Botswana as it shows how effectively we are functioning in the overall environment.
- ⊕ Electricity supply constraints
- ⊕ Resource capacity constraints

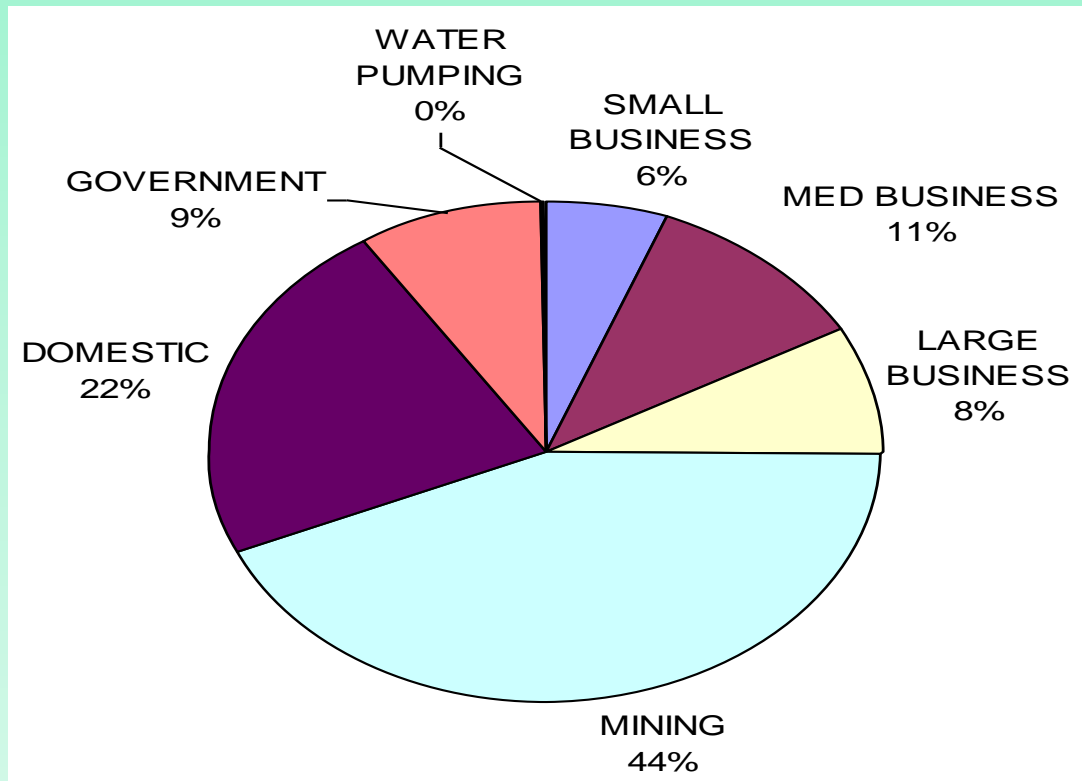
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# Energy Consumption Patterns in Botswana



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# *Energy (electricity) Consumption Patterns in Botswana ...*



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# *Energy (electricity) Consumption Patterns in Botswana*

- ⊕ Present growth of energy consumption 10% per annum
- ⊕ Target: Reduced energy consumption growth to 5 -6% per annum

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# *Current Initiatives to Improve EE*

- ⊕ Energy Audit of Industries
- ⊕ Development of Energy Efficiency Strategy funded by DANIDA
- ⊕ Replacement of 1 million Incandescent bulbs with compact fluorescent lamps
- ⊕ Implement various energy saving measures in Government Institutions
- ⊕ Implementing measures for Demand Side Management
- ⊕ Energy Efficiency building design guidelines

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# *Opportunities in Energy Efficiency*

- ⊕ Development of a comprehensive National Energy Efficiency Strategy
- ⊕ A significant number of households use wood as the main fuel for cooking, in ways that are not energy efficient.
- ⊕ Transport sectors consumes 60% of total energy yet no aggressive energy efficient program
- ⊕ EE Building design guidelines have been developed but not yet implemented

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# *Opportunities in Energy Efficiency....*

⊕ Energy Audit of Industry

⊕ Hotels

⊕ Mining

⊕ Manufacturing

⊕ Agric

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# *Opportunities in Energy Efficiency....*

- ⊕ Energy Audit in transport sector
  - ⊕ Development of energy efficiency strategy in transport sector
  - ⊕ Capacity building
  - ⊕ Benchmarking

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# ***BUSSINESS OPPORTUNITIES FOR ENERGY EFFICIENT APPLIANCES***

- ⊕ Production, marketing and installation of various energy efficient appliances and equipments
- ⊕ Manufacturing and marketing of Energy Efficient motors, variable speed drives etc.
- ⊕ Establishing Energy service companies (ESCOs) for energy audit & energy management and implementation of energy audit recommendations.

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# ***BUSSINESS OPPORTUNITIES FOR ENERGY EFFICIENT APPLIANCES***

- ⊕ Manufacturing energy efficient fuel wood stoves
- ⊕ Manufacturing and marketing of energy efficient coal stoves for domestic use as well as for community use such as schools, prisons etc.
- ⊕ Marketing movement sensors, timers, energy efficient lights etc.

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# *Conclusion*

- ⊕ Opportunities exist for carbon credits in the Energy Efficiency sector
- ⊕ Carbon Credits market is untapped in Botswana
- ⊕ There exists the political will to cooperate with the private sector
- ⊕ Every watt of energy saved will reduce four times consumption of fossil fuel for production of that energy and hence energy conservation contributes tremendously to environment protection.

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The End... Thank You

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