

# Energy Efficiency Programs in Namibia



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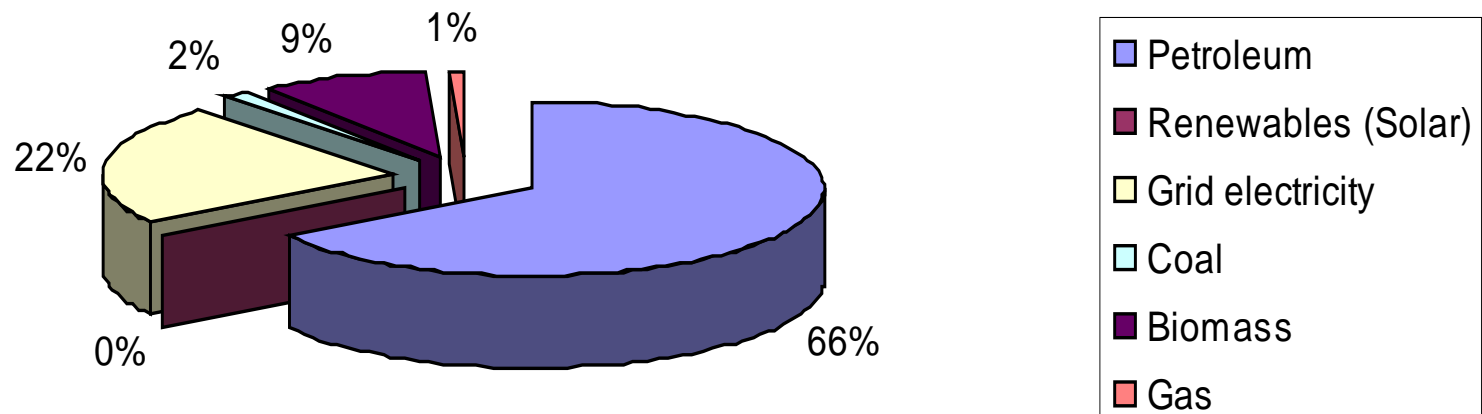
# STRUCTURE OF PRESENTATION

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- 1. CURRENT ENERGY SITUATION**
- 2. WHITE PAPER ON ENERGY POLICY**
- 3. NATIONAL EE INITIATIVES**
- 4. DSM MEASURES**

# 1. CURRENT ENERGY SITUATION

Namibia Energy Consumption by Resource  
in 2006 (Source; REEEI)

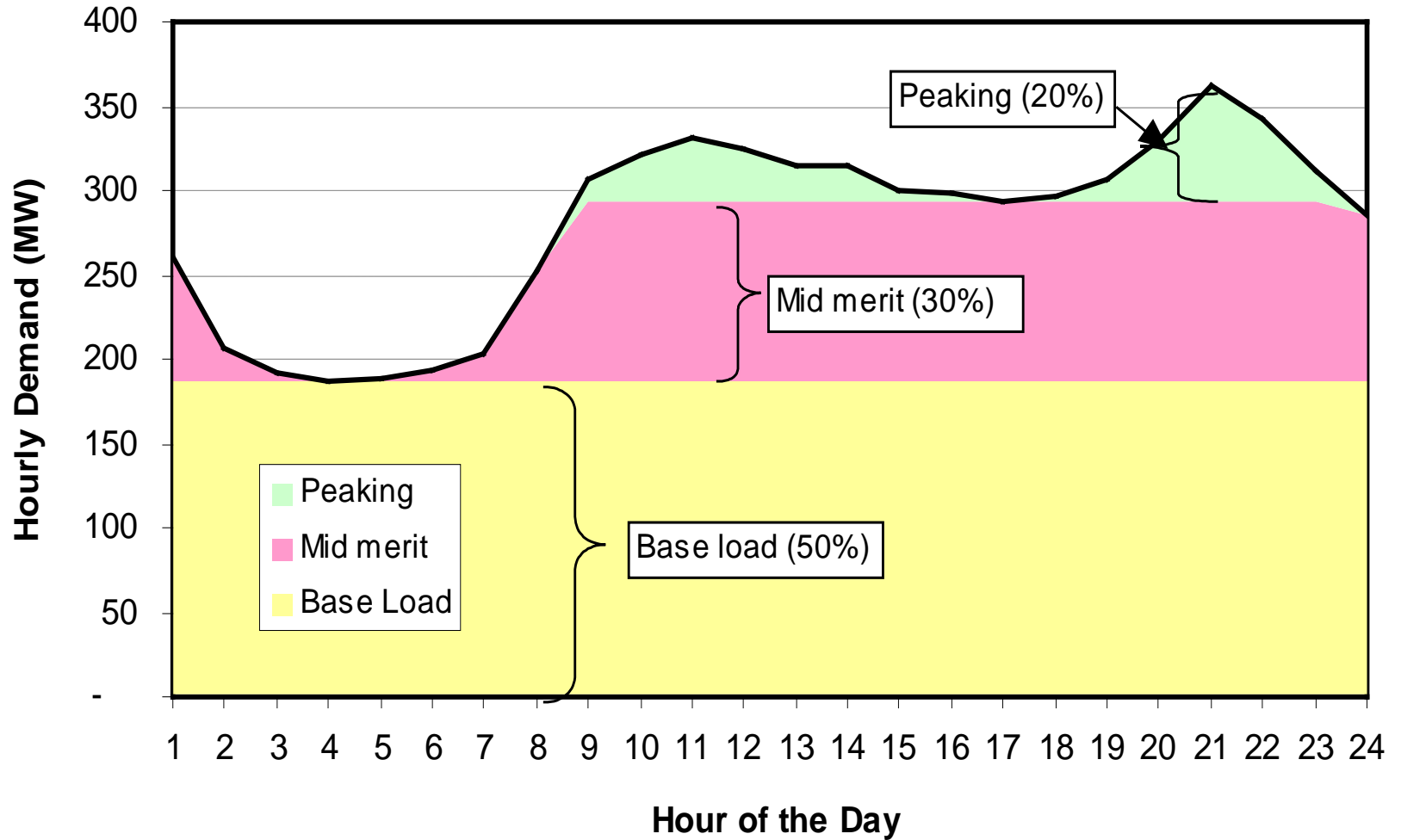


# 1. CURRENT ENERGY SITUATION

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- Namibia largely relies on imports for energy needs;
  - Electricity- 50 to 60%
  - Petroleum, coal & gas- 100%
- Peak power demand is 450MW
- Low and sparse population (2 people per km<sup>2</sup>, (UNDP, 2004) translate to long electricity transmission lines with considerable losses of 8% (SAPP, 2006).
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# CURRENT ENERGY SITUATION



## 2. WHITE PAPER ON ENERGY POLICY

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### □ 1998- White Paper on Energy Policy

#### ■ 7 energy goals;

- security of supply,
- social upliftment,
- effective governance,
- investment and growth,
- economic competitiveness,
- economic efficiency, and
- sustainability.

# 3. NATIONAL EE INITIATIVES

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- 7 Demand Side Management Measures identified after 2006 study by the regulator;
  - Efficient lighting (CFL)
  - Domestic solar water heating (DSWH)
  - Ripple Control
  - Time of Use Tariff
  - Demand Market Participation
  - Energy Auditing
  - Awareness Raising

# DSM Measures

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- DSM Steering Committee Established in 2007 comprising of Ministry, Regulator (ECB), NamPower, Industry, REEEI
  - 900,000 CFLs distributed to households by NamPower in 2007; saving 14MW (24MW potential) of peak demand
  - Ripple control on electric geysers & air cons being implemented in two big cities (Windhoek & Walvis Bay)



# DSM Measures

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- ❑ Time of Use Tariffs- effected in July 2009 (impact is yet to be felt across the economy)
- ❑ Demand Market Participation – big users such as mines and water utilities
- ❑ Domestic Solar Waters Heaters- Cabinet Directive in 2007- ordering all public buildings to meet their water heating needs with solar

# DSM Measures

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- Awareness raising- being implemented by the DSM Steering Committee
- Energy Auditing – yet to be implemented- need for auditing skills
- ***DSM measures partly responsible for a 19MW reduction in peak demand in 2009***

# THE END

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## THANK YOU

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