

# Panel 1

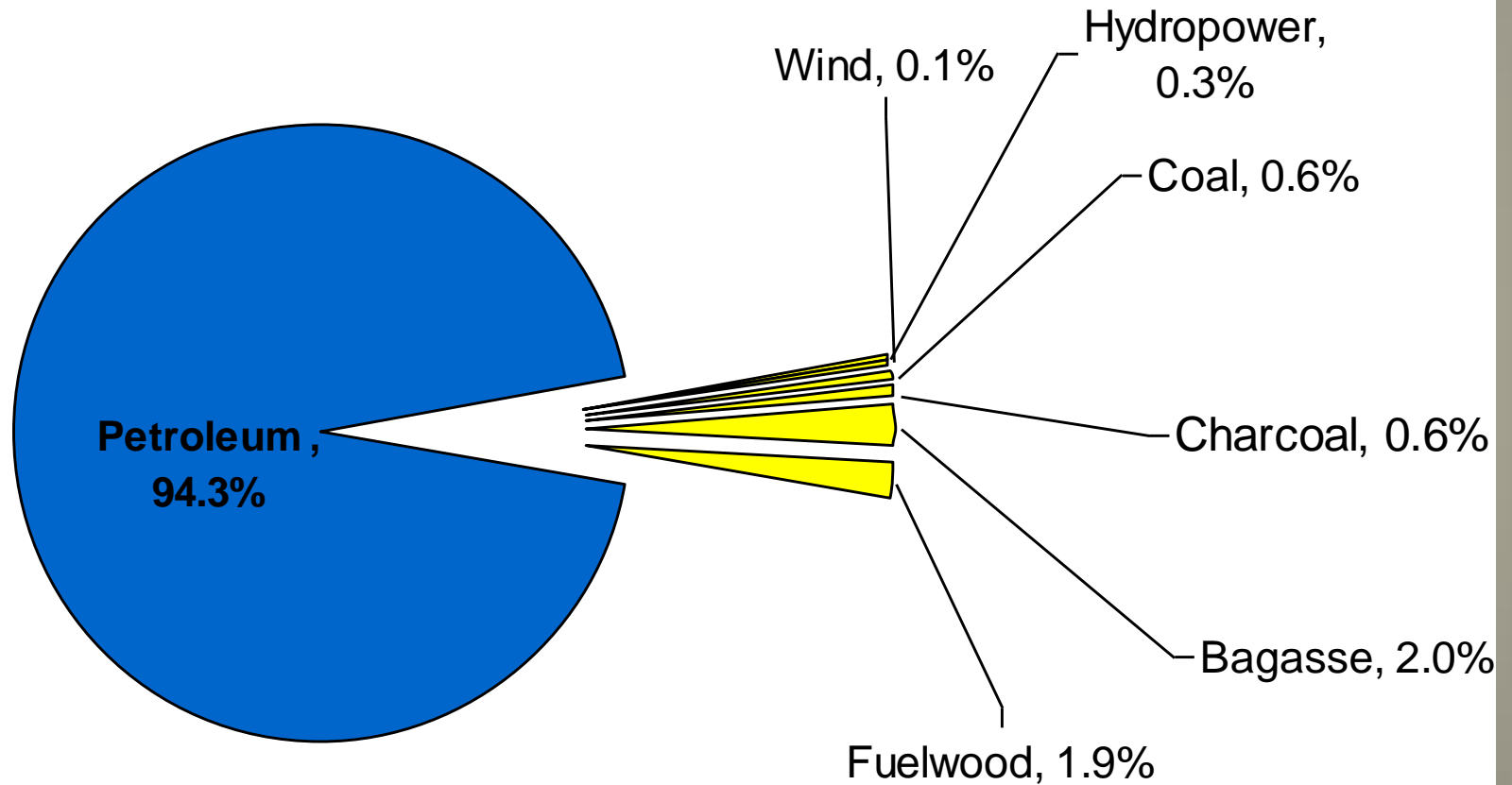
## Expanding Energy Capacity

AMCHAM Private Sector Forum on  
Energy

February 9<sup>th</sup>, 2012

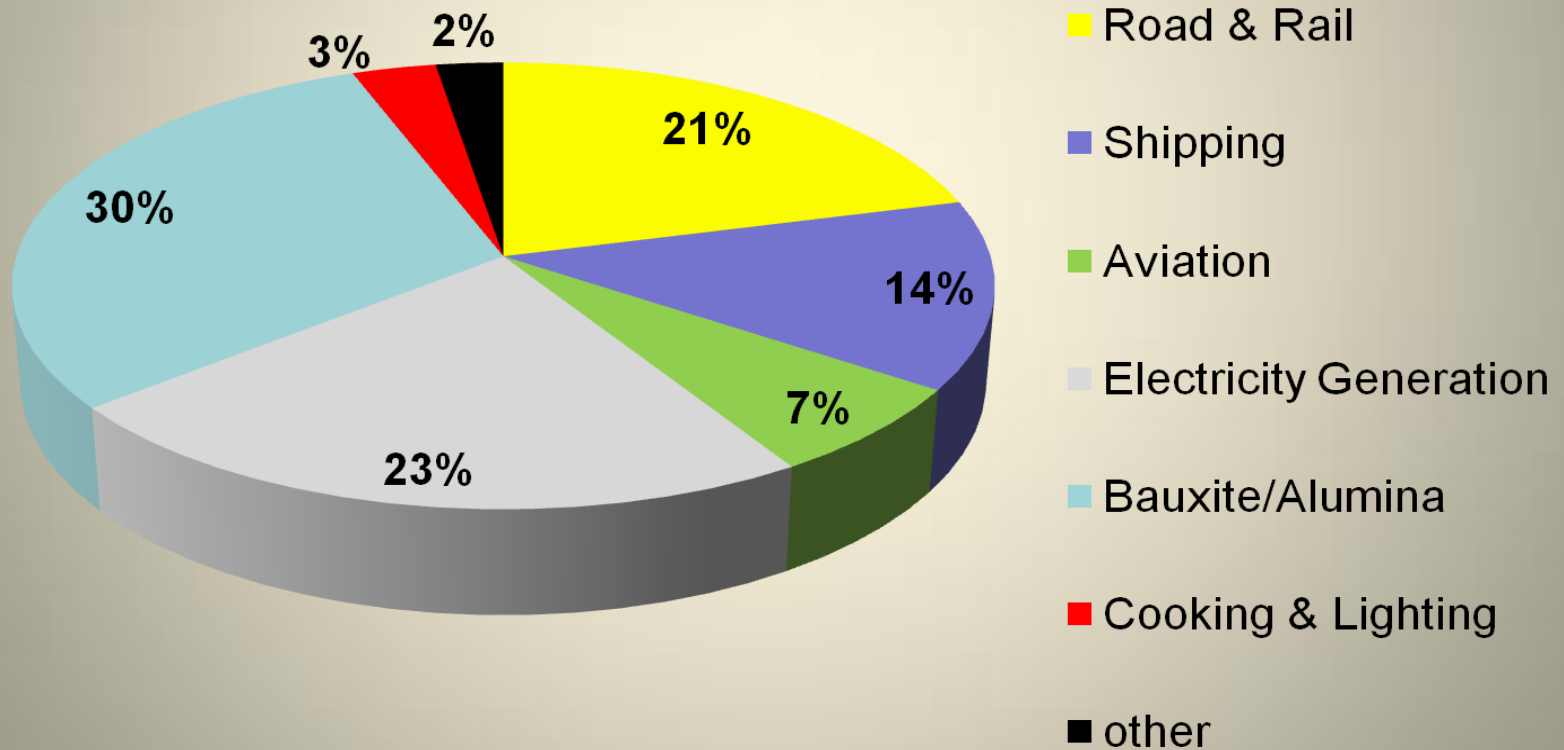
# Jamaica's Energy Mix - 2009

Source: Dr. Ruth Potopsingh, UTECH



# Petroleum Consumption by Activity

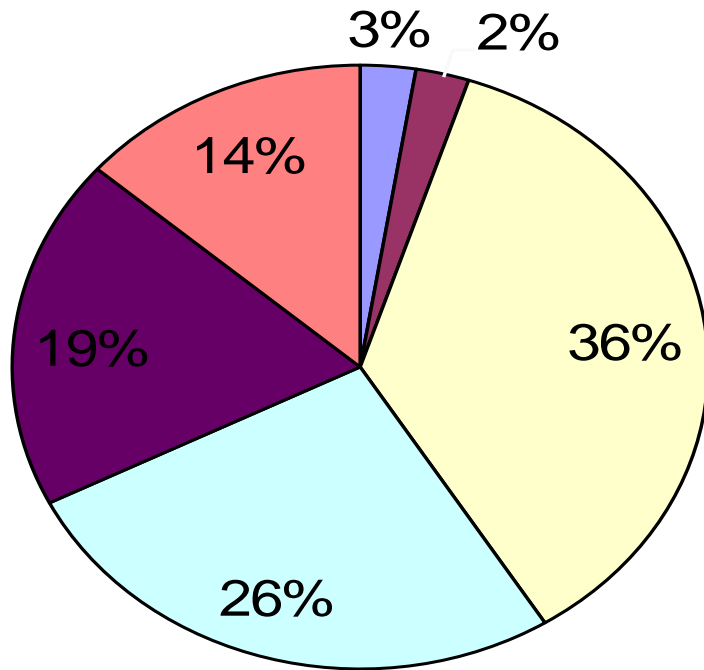
Source: Dr. Ruth Potopsingh, UTECH



# Electricity Generation

Source: Dr. Ruth Potopsingh, UTECH

## Jamaica's Generation Mix



- Wind Energy ~ 2%
- Renewables ~ 5%

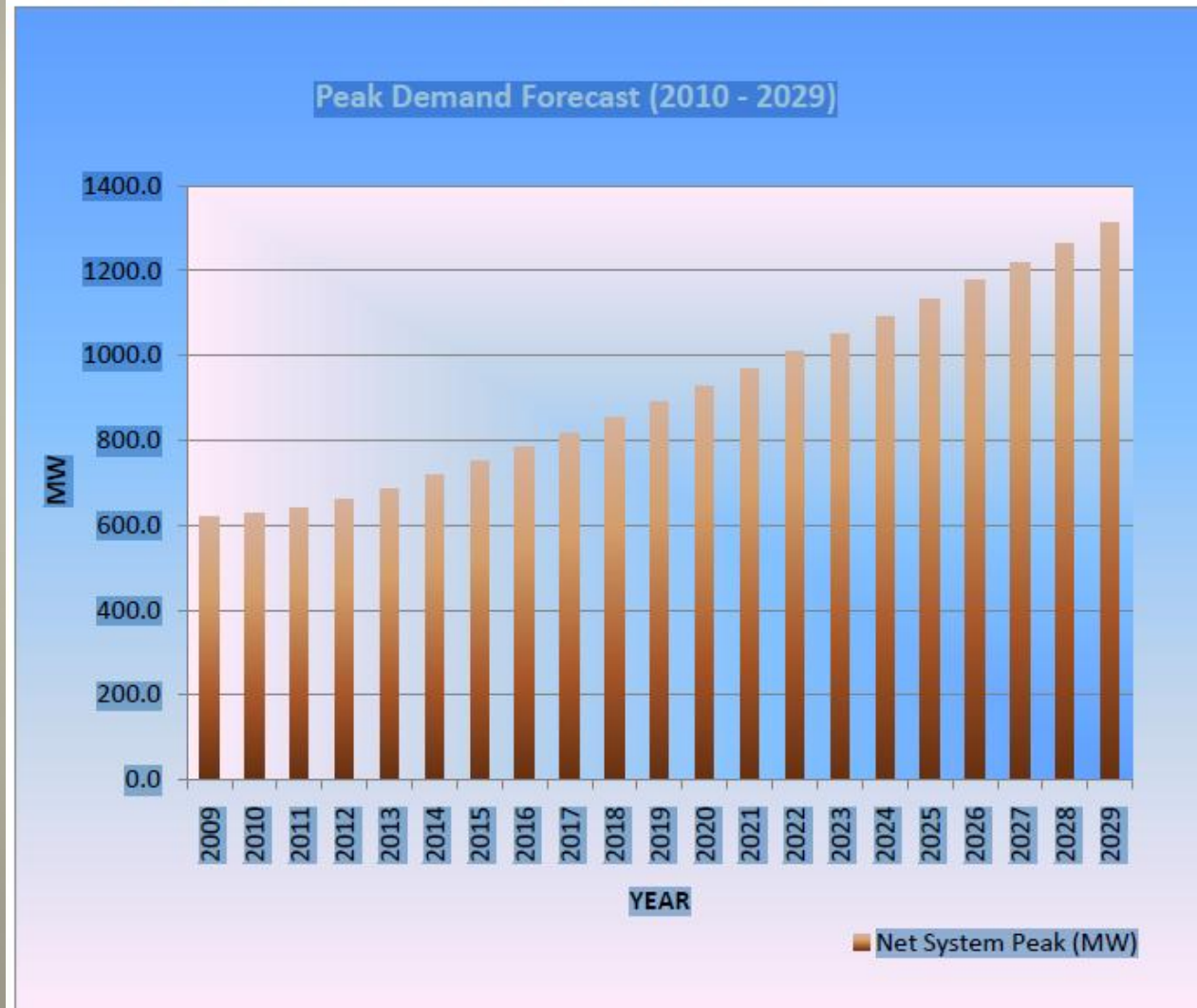


# Forecast of Peak Electricity Demand (2010 – 2029)

Source: OUR Generation Expansion Plan 2010

- 1300 MW by 2029

Figure 3.2-1: Base Forecast – Net Peak Demand (2010 – 2029)



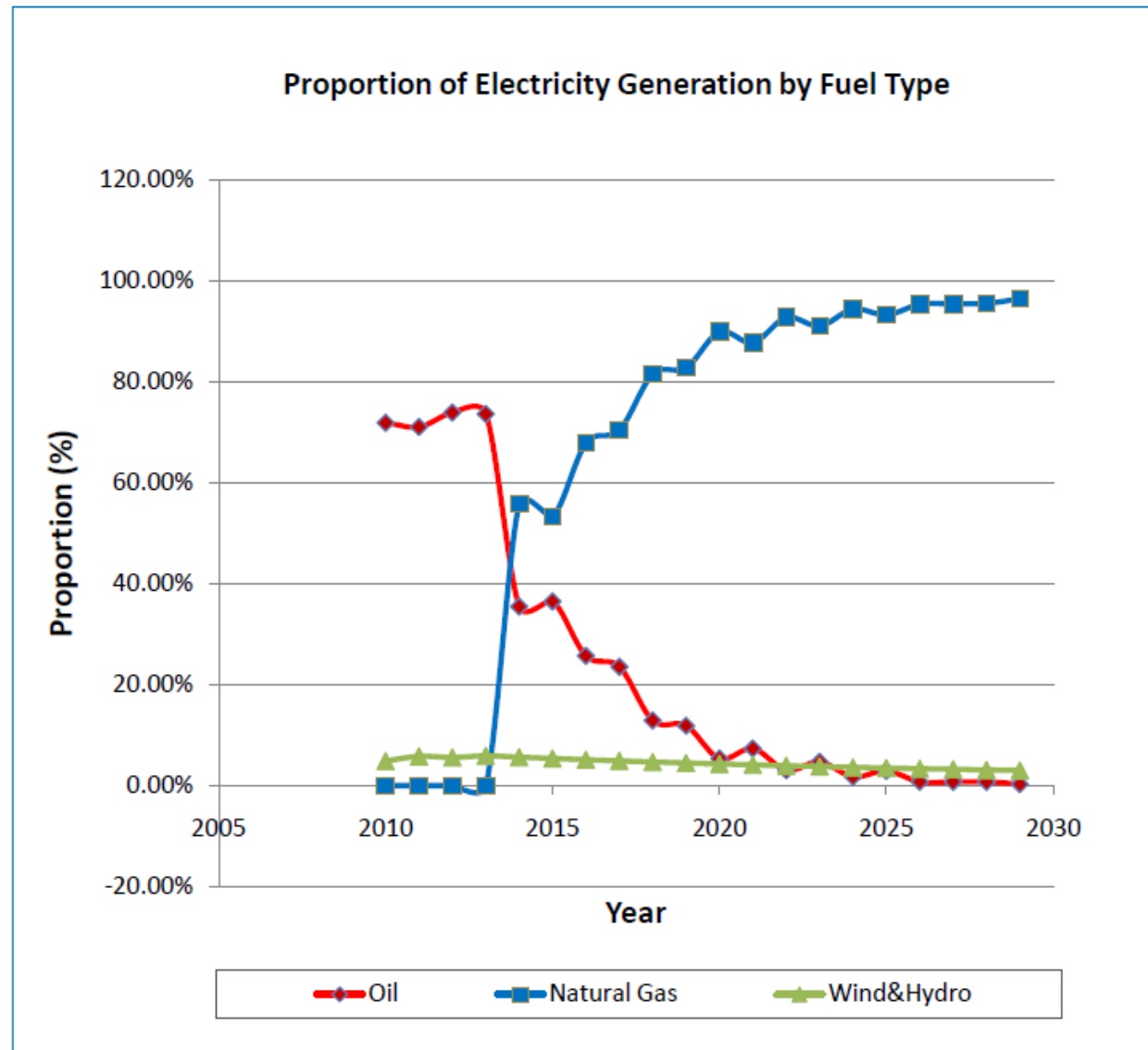
# Jamaica's Renewable Energy Policy (2010 Draft)

- Goal 3 of the policy states that “Jamaica realizes its energy resource potential through the **development of renewable energy** sources and enhances its international competitiveness and energy security whilst reducing its carbon footprint”.
- This goal focuses on the development of indigenous renewable energy resources with the goal of increasing the **percentage of renewables in the energy mix to 20% by 2030**.
- **To increase from 60 MW to 260 MW by 2030**

# Natural Gas Strategy to achieve 1300 MW by 2029

Source: OUR, 2010

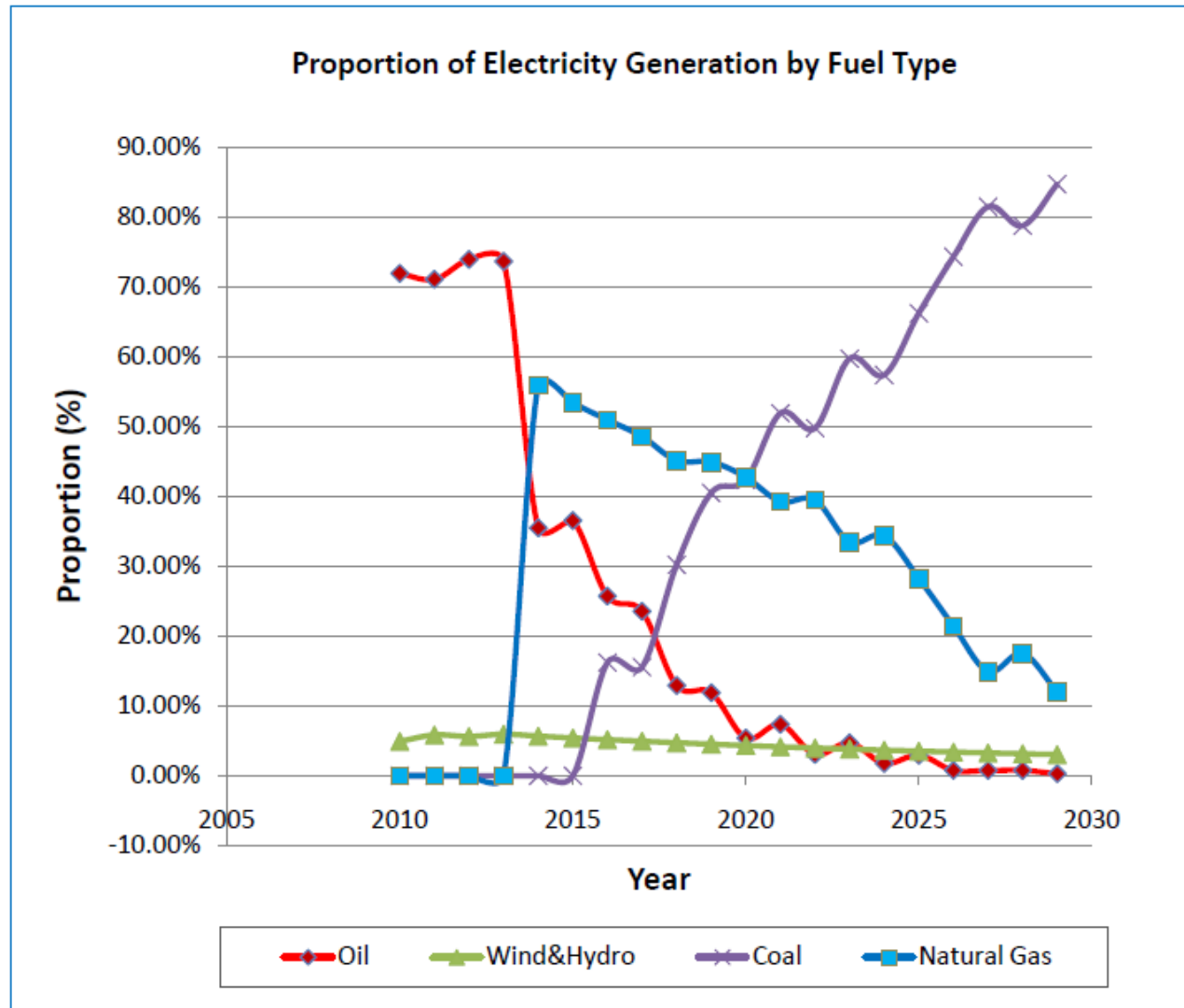
Figure 9.4.1-2: Proportion Electricity Generation Fuel Type (NG strategy)



# Natural Gas/Coal Strategy to achieve 1300 MW by 2029

Source: OUR, 2010

Figure 9.4.2-2: Proportion Electricity Generation Fuel Type (NG/Coal Strategy)





# Concerns in Expansion

- Cost of Electricity
  - Technology (capital cost, efficiency)
  - Fuel type (optimum transition mix)
- Energy Security and independence
  - Sustainability, reliability of fossil fuel supply vs renewable
- Clean Energy
  - Global warming and climate change
- Governance
  - Policy & regulation