REFERENCE ENERGY SYSTEM

ENERGY SOURCE/SUPPLY — **TRANSFORMATION, ENERGY CONVERSION & DELIVERY** — **ENERGY DEMAND**

ENERGY SOURCES › PRIMARY ENERGY SUPPLY › TRANSFORMATION › SECONDARY ENERGY › FINAL ENERGY DEMAND

INDIGENOUS ENERGY

FOSSIL FUELS
- Natural Gas
- Coal
- Crude Oil and Condensate (Natural Gas Liquid)

RENEWABLE ENERGY
- Solar
- Wind
- Hydro
- Geothermal
- *Biomass (Bagasse/Fuelwood, etc.)

OTHER RE
- Biofuels CME/Ethanol

IMPORTED ENERGY
- Crude Oil
- Coal
- Petroleum Products
  - Diesel
  - Gasoline
  - LPG
  - Fuel oil
  - Kerosene
  - Aviation Fuel
  - Others
- Ethanol

Onshore Gas Plant

POWER GENERATION
- Privatized GENCOS
- New GENCOS
- IPPs
- Own Generation

OIL REFINING

Blending With Biofuels

CNG/LNG

ELECTRICITY

REFINED OIL PRODUCTS
- Diesel
- Gasoline
- Fuel Oil
- Kerosene
- LPG
- Aviation Fuel
- Others Non-Energy: Greases/Waxes/Asphalt

Transmission Lines / Distribution Lines

Distributors / Retailers

FINAL ENERGY DEMAND
- Industry
- Transport
- Services
- Household
- Agriculture
- NON-ENERGY USE

LEGEND: ←——→ Energy Flow

* - for power and end-use application