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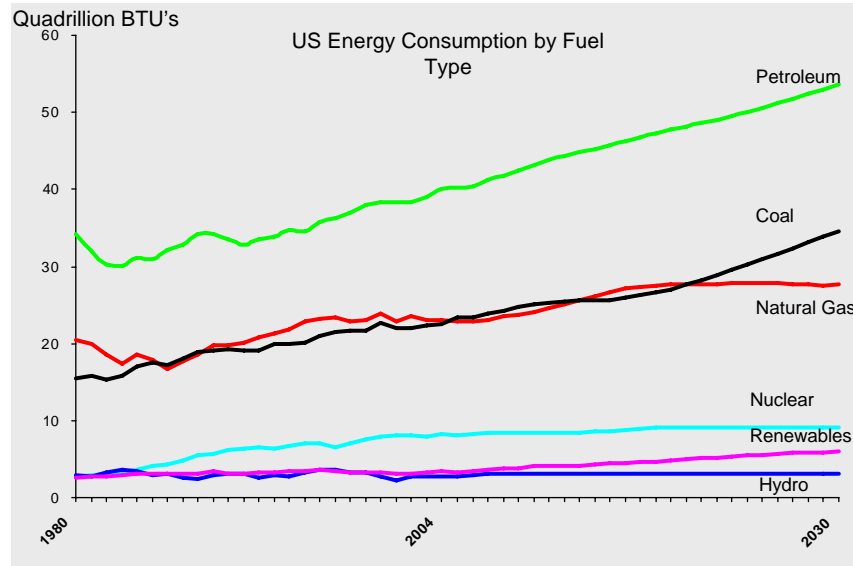


**Meeting our Energy
Challenges
through
On-Site Clean Energy
Generation**

**Siemens Building Technologies,
September 25 2007**

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Facing Global Energy Challenges



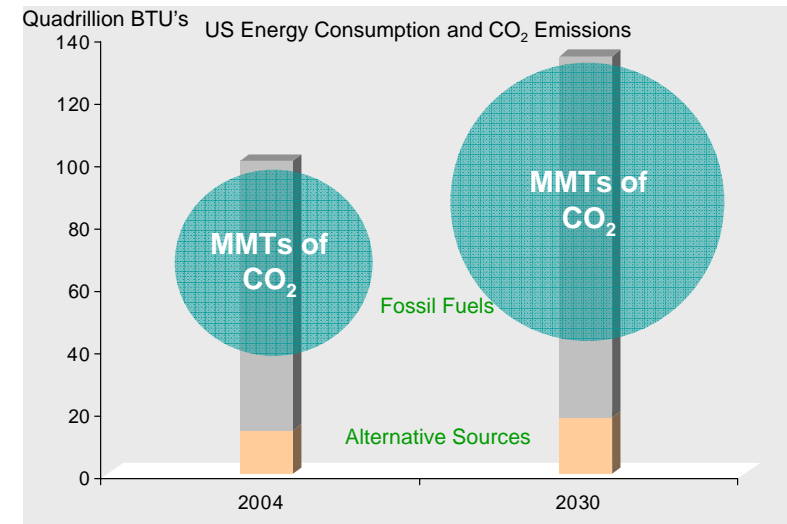
What we Know Today....

- Increased demand for fossil fuels
- Global fossil fuel production will peak
- Our nations facilities are aging and inefficient
- Energy prices are rising and volatile
- Strained energy infrastructure and delivery system

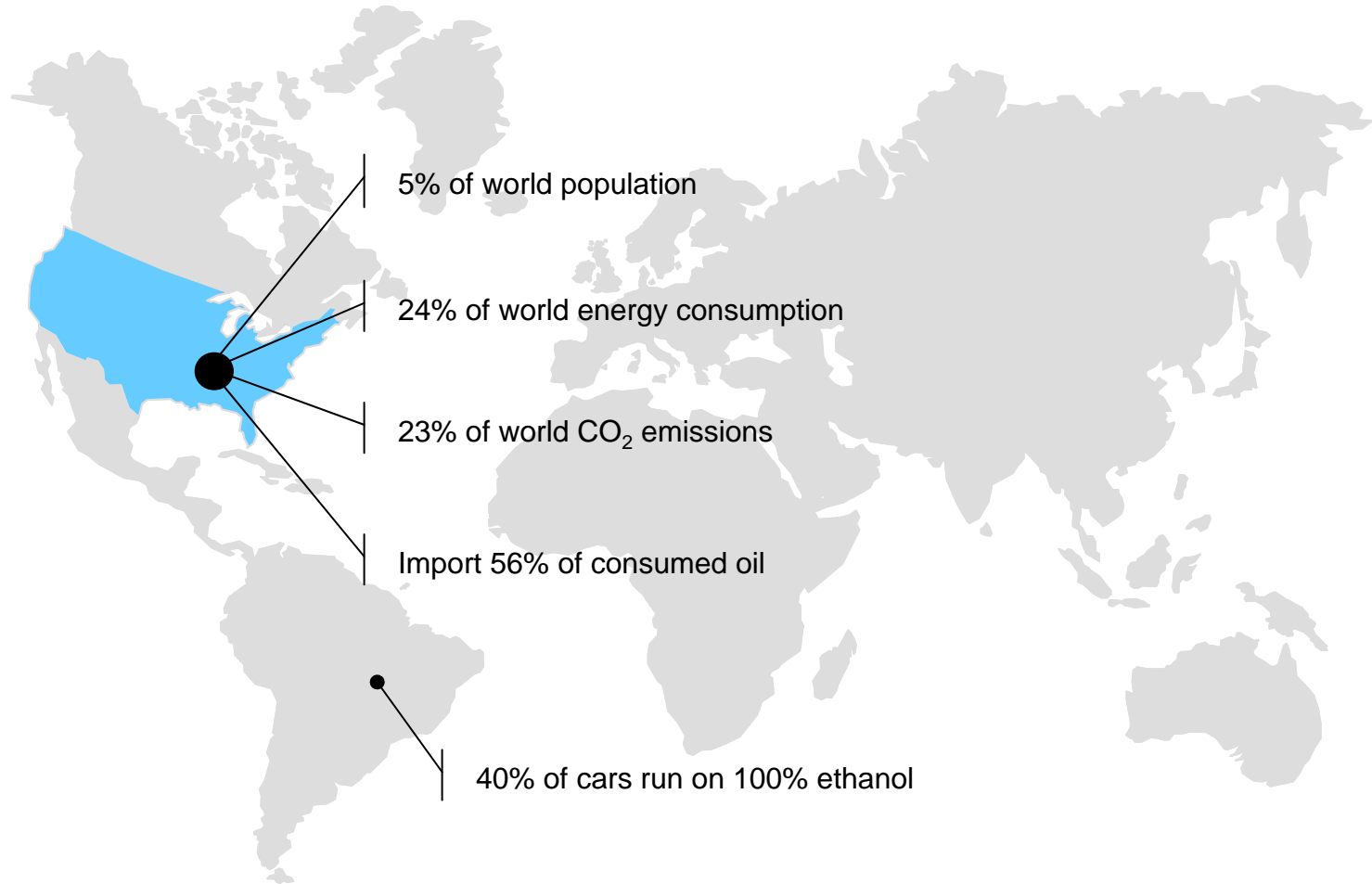
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Impacts our World of Tomorrow....

- Increased global competition for scarce resources
- The US produces ¼ of the world's CO₂ emissions
- Cheap, plentiful energy supply is a thing of the past
- A reliable and secure energy supply is a national security issue

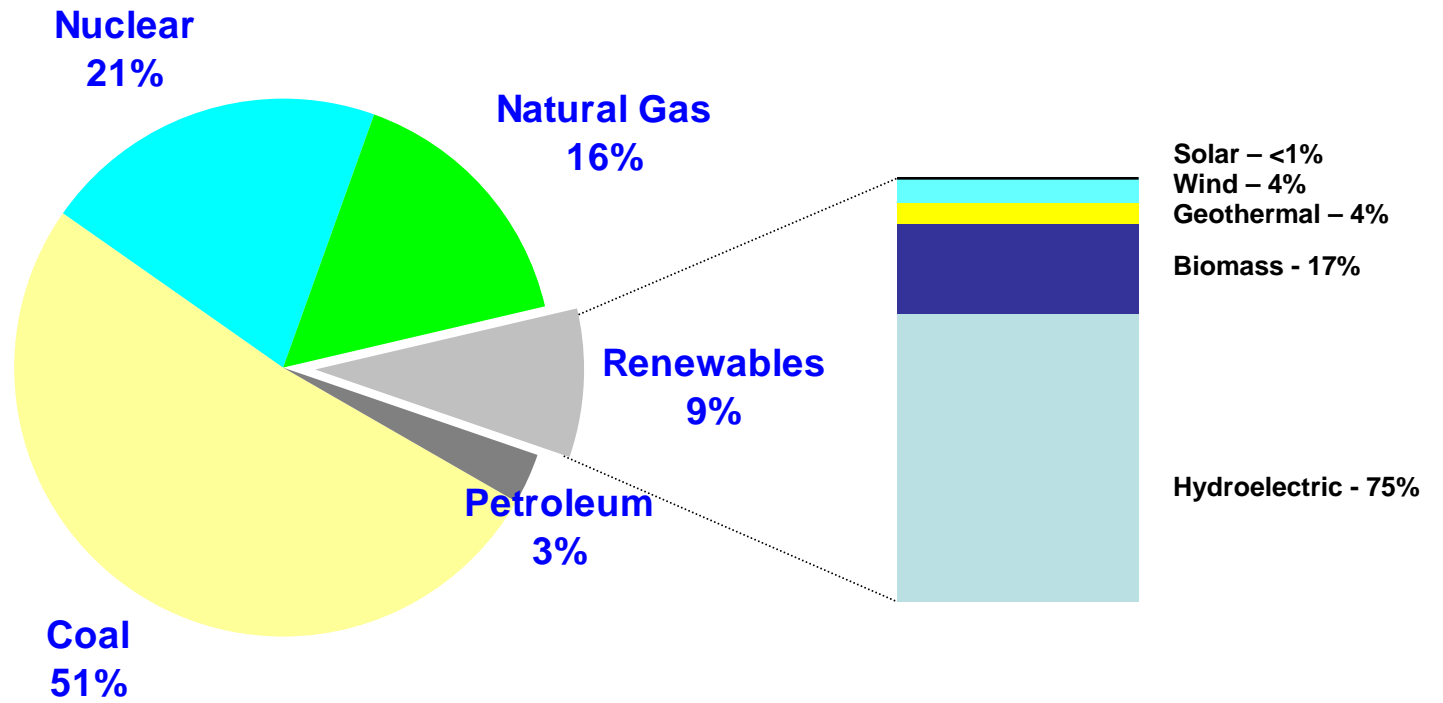


Facing Global Energy Challenges



Role of Renewables in U.S. Electricity Generation

U.S. Electricity Generation by Source – (Power Only)



Source: Energy Information Administration, 2004 Figures

ALTERNATIVE FUEL FOR ELECTRIC PRODUCTION

- **LANDFILL GAS**
 - Methane Powered Generators
- **SOLAR**
 - Photovoltaic
 - Thermal
- **GEO THERMAL**
 - Steam
 - Binary-cycle

ALTERNATIVE FUEL FOR ELECTRIC PRODUCTION

- **BIOMASS**
 - Forestry Materials
 - Wood Reside
 - Agricultural Residue
 - Energy Crops
- **WIND**
- **HYDROELECTRIC**

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