

Climate Change and Security of Supply



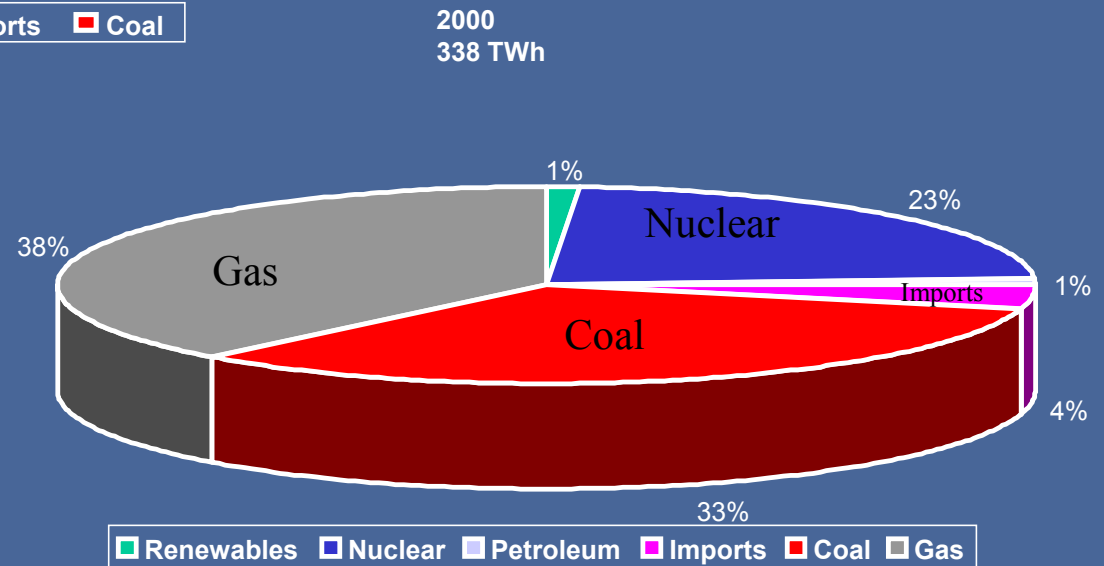
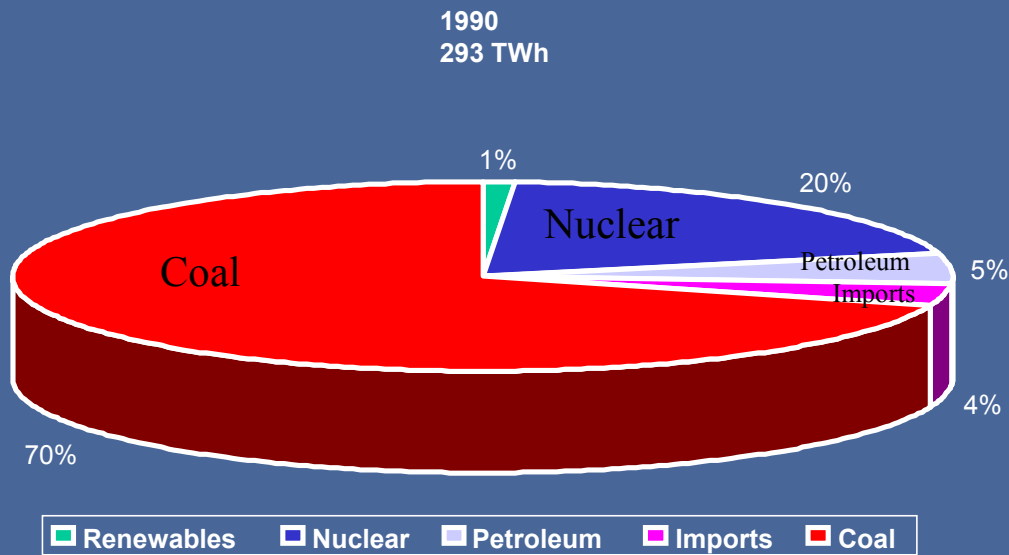
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APGTF Forum

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A comparison of electricity generation by fuel type in the early 1990's and the end of the decade



Coal Fired Generation



- No real base load
- Flexibility is key
- Robust and long life
- Under threat from environment
- Co₂ issue

Coal Fired Generation - The Future



- Super/ultra super critical
- Gasification

Gas Fired Generation



- Base load now
- Some flexibility needed in future
- Technology of choice in 1990's
- Quick to build
- Lower costs
- Environmental emissions

Gas Fired Generation



- Reliability of new models
- Longevity
- Flexibility
- “Too much of a good thing”

Renewables



- Wind
- Hydro
- Wave Power
- Biomass
- Co-firing (with coal)
- Photo-voltaic

The Market



- Balance of fuels - does the market care?
- New plant build - will there be any?
- Environment is the driver now
- Consequences of competition and over supply