New Nuclear Generation

What's Driving

New Nuclear Generation?

Nuclear Generation Drivers

Economics

Environment

Growth and Demand

Economics

Fuel

Nuclear

Coal

Gas

Oil

Generation Costs (National Average)

- 1.72 Cents/kWh

- 2.21 Cents/kWh

- 7.51 Cents/kWh

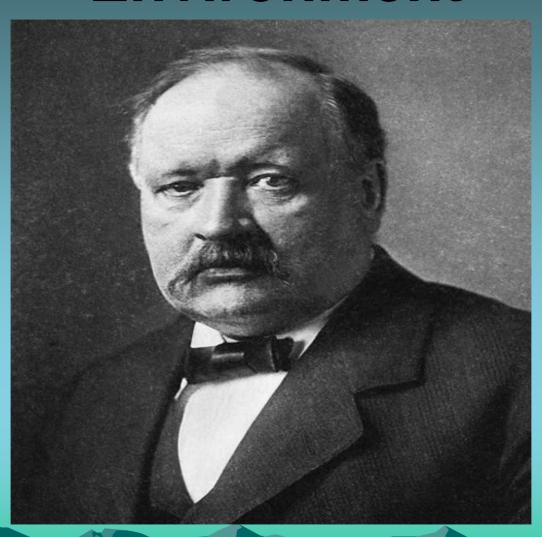
- 8.09 Cents/kWh

Economics (Energy Comparisons)

- 1 Uranium Fuel Pellet is Equivalent to:
 - -1,780 Pounds of Coal
 - 149 Gallons of Oil
 - 17,000 Cubic Feet of Natural Gas

1 Pound Uranium = 3 Million Pounds Coal

Environment



Environment

- Svante Arrhenius Swedish Chemist
- Lived in Sweden from 1859 1927
- Predicted Global Warming in 1898
- Recognized Need to Reduce Greenhouse Gasses

Growth and Demand

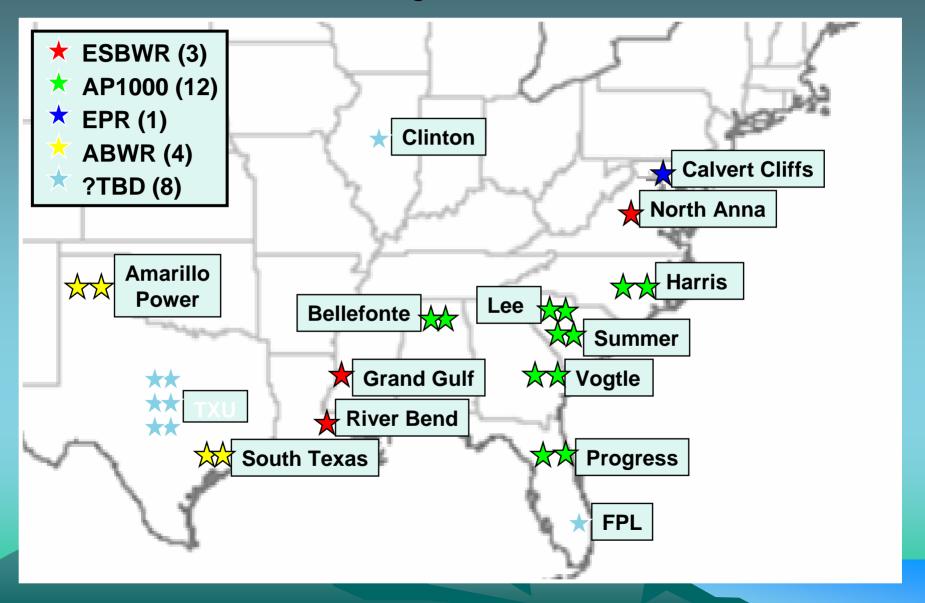
DOE Forecast

- 50% Growth and Demand in Southeast
- 75% Growth and Demand in Florida
- Residential Growth
- Industrial Growth
- Commercial Growth

NEI Forecast

Need 50,000 Mwt New Generation by 2020

New Nuclear Project Announcements



Early Site Permit (ESP) Status

- Dominion Nuclear North Anna
 - ESP Submitted Sept., 2003
 - Final SER Issued June, 2005
 - Supplemental SER Issued August, 2006
- Exelon Generation Company Clinton
 - ESP Submitted Sept., 2003
 - Final SER Issued in May, 2006
- Entergy Grand Gulf
 - ESP Submitted Oct., 2003
 - Final SER Issued in April, 2006
- Southern Nuclear Vogtle
 - ESP Submitted August, 2006
 - Final SER Expected By 2009

Combined Operating License (COL) Schedules

- North Anna
- Summer
- Calvert Cliffs
- Harris
- Bellefonte
- South Texas
- Grand Gulf
- Vogtle
- Lee
- River Bend
- TXU

- 3rd Qtr 2007
- 3rd Qtr 2007
- 4th Qtr 2007
- 4th Qtr 2007
- 4th Qtr 2007
- 4th Qtr 2007
- 1st Qtr 2008
- 1st Qtr 2008
- 1st Qtr 2008
- 1st Qtr 2008
- FY 2008

COL Review Scheduled for 2.5 Years

Schedule

- ESP
- COL
- Construction
- Startup
- Total

- -2 to 3 Years
- 2.5 Years
- 3 to 4 Years *
- 6 Months
- 8 to 10 Years

* Japanese Built a New Generation Plant with Modular Construction in 36 Months

Process Improvements

Standardized Design

Standardized Licensing Process

Modular Construction

Standardized Designs

- AREVA
 - Evolutionary Power Reactor (EPR)
- General Electric
 - Advanced BWR (ABWR)
 - Economic Simplified BWR (ESBWR)
- Westinghouse
 - Advanced Passive (AP600)
 - Advanced Passive (AP1000)