

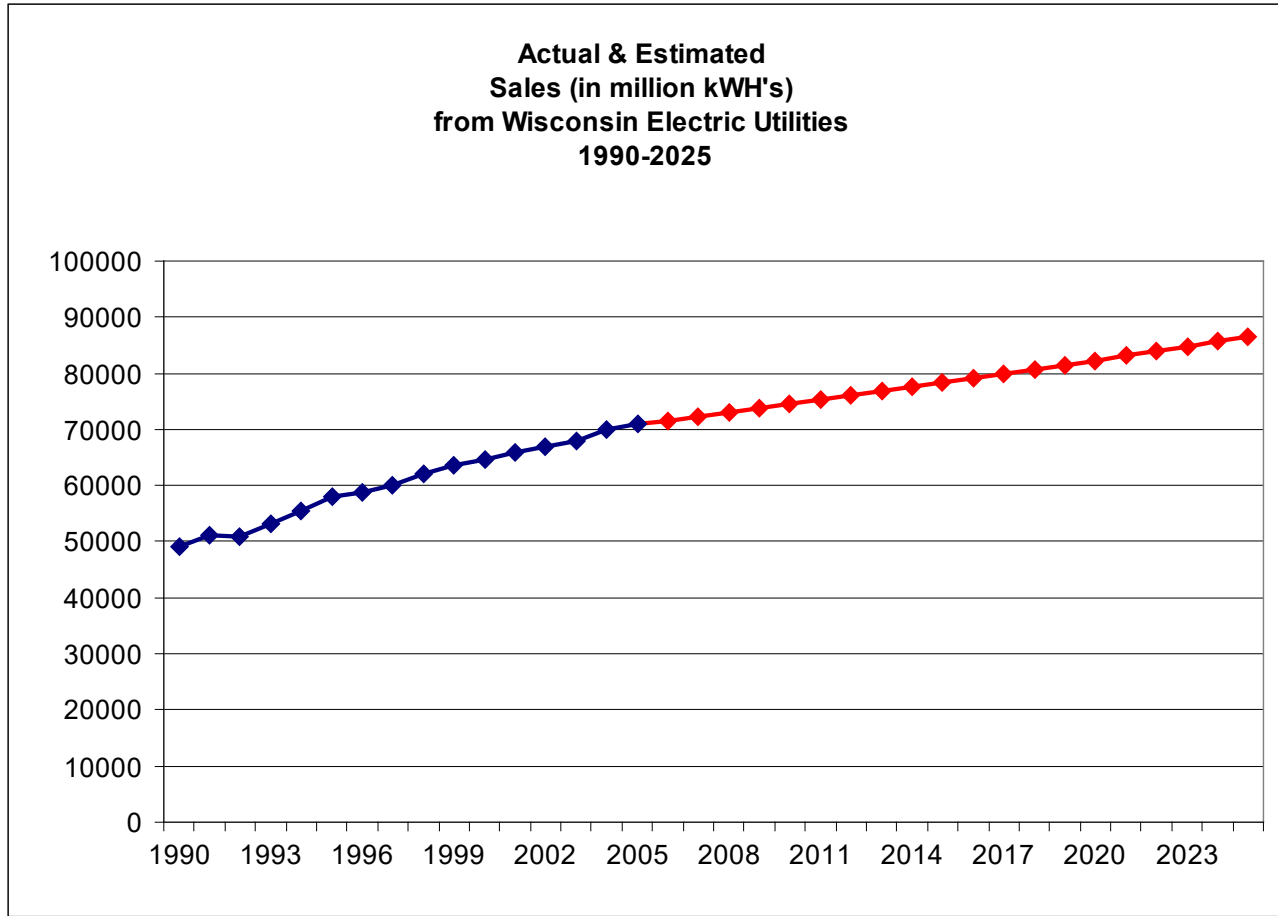
Public Service Commission of Wisconsin

Presentation to the Special Committee on Nuclear Power

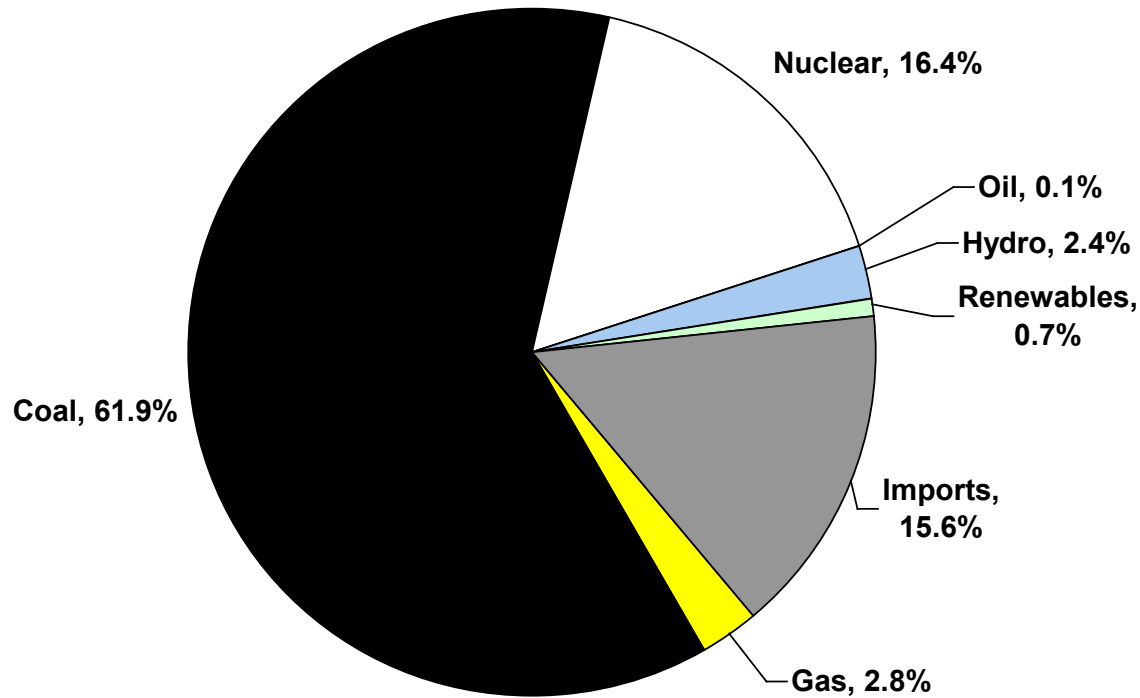
Eric J. Callisto
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September 14, 2006
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Actual and Projected Electric Demand Growth in Wisconsin



Current Electric Generation by Plant Type



CPCN Process

Selected Factors

- Needed for adequate supply
- In public interest considering alternative supply, location or route, individual hardships, engineering, economic, safety, reliability and environmental factors
- Reasonable cost
- No undue adverse impact on environmental values (including ecological balance, public health and welfare, historic sites, geological formations, aesthetics of land and water and recreational use)

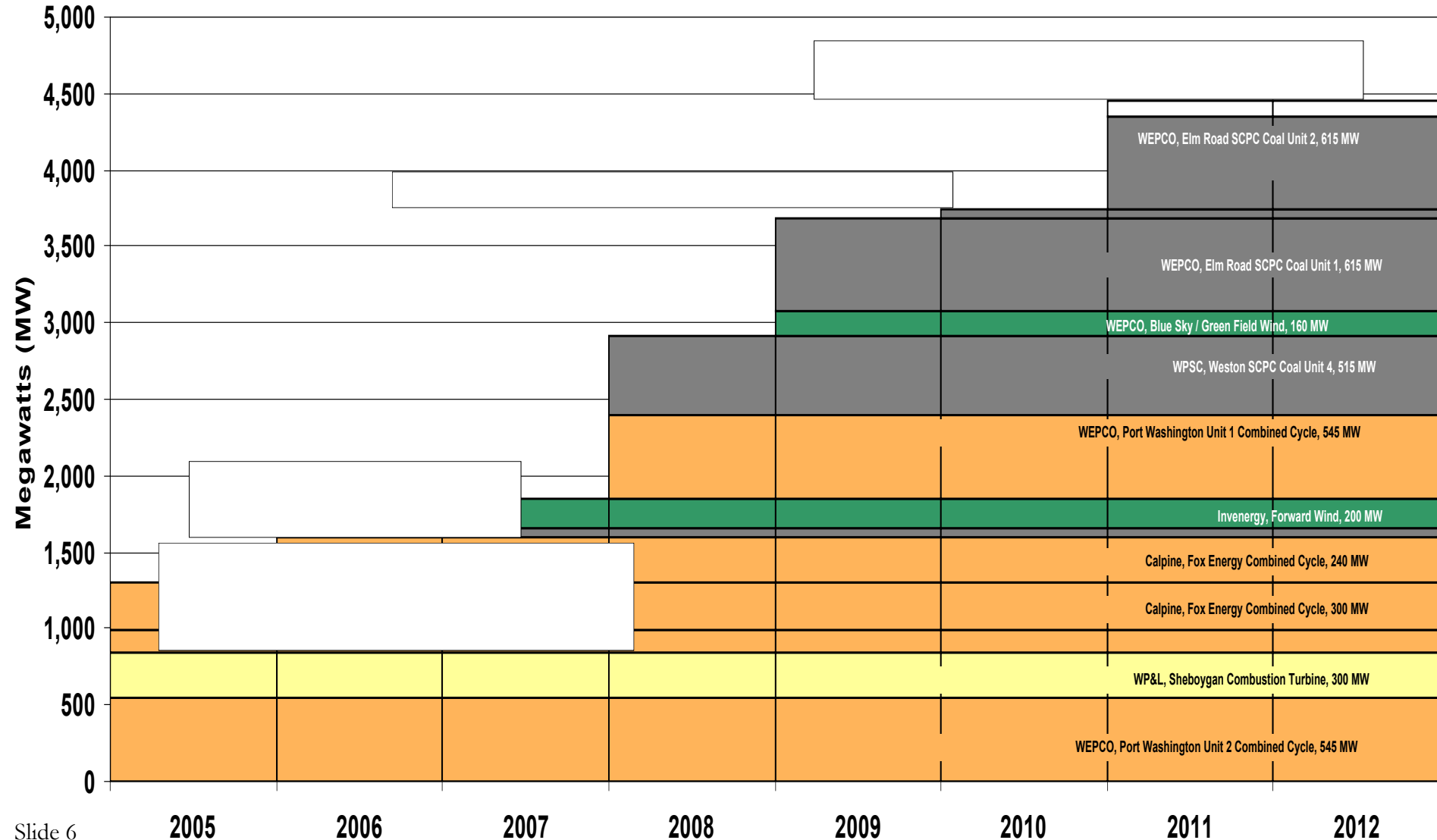


New Generating Unit Options

- Gas-fired combustion turbines
- Gas-fired combined cycle plants
- Coal-fired plants
- Integrated gasification combined cycle
- Wind turbines
- Biomass
- Purchase power
- Nuclear (subject to compliance with statutory requirements)



Plants Authorized, Under Construction or Announced



Regulation of Nuclear Power

- The PSC has jurisdiction over new construction for both regulated utilities and independent power producers
- The PSC has jurisdiction over plant modification, rate and affiliated interest issues for regulated utilities
- The PSC has jurisdiction over plant sales



Point Beach Nuclear Power Plant

- Located north of Two Rivers in Manitowoc County
- Two units
- Approximately 1025 MW
- Operating licenses expire in 2030 (Unit 1) and 2033 (Unit 2)
- Owned by Wisconsin Electric Power Company & operated by Nuclear Management Company



Kewaunee Nuclear Power Plant

- Located in southern Kewaunee County
- Single Unit
- Approximately 545 MW
- License expires in 2013. Nuclear Regulatory Commission indicates license renewal application expected in 2008
- Owned/operated by Dominion Resources



US and Worldwide Nuclear Power

- As of June 2006, there are 442 nuclear generating units in 30 countries worldwide, with 103 of these units in the US (31 states)
- In the US, nuclear generates approximately 20% of the nation's electricity. In France, nuclear generates approximately 80% of the nation's electricity



US and Worldwide Nuclear Power

- There are currently 27 new nuclear units under construction in 11 countries (none in the US)
- In the US there are currently 13 companies that have announced interest in building new nuclear units. Several of these are before the NRC for an Early Site Permit



Current Federal Topics of Interest

Yucca Mountain

- US DOE has been studying Yucca Mountain since 1978
- DOE anticipates accepting spent fuel at Yucca no sooner than 2017
- As of March 31, 2006, Wisconsin ratepayers have paid a total (payments plus return) of \$594.3 million into the nuclear waste fund

Interim Storage

- Consolidation and Preparation (CAP) Proposal
- Private Fuel Storage



Conclusions/Questions

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