Advanced Nuclear Energy Development in the U.S.
Progress on UniStar's Calvert Cliffs-3 Project

George Vanderheyden

President / CEO UniStar Nuclear Energy

February 17, 2009

Understanding Our Past: The 1970s

- Political:
  - Vietnam War
  - Resignation of President Nixon
- Economic:
  - 1973 and 1979 Oil Crisis
- Environmental Movement:
  - On April 22, 1970 the United States celebrates first Earth Day

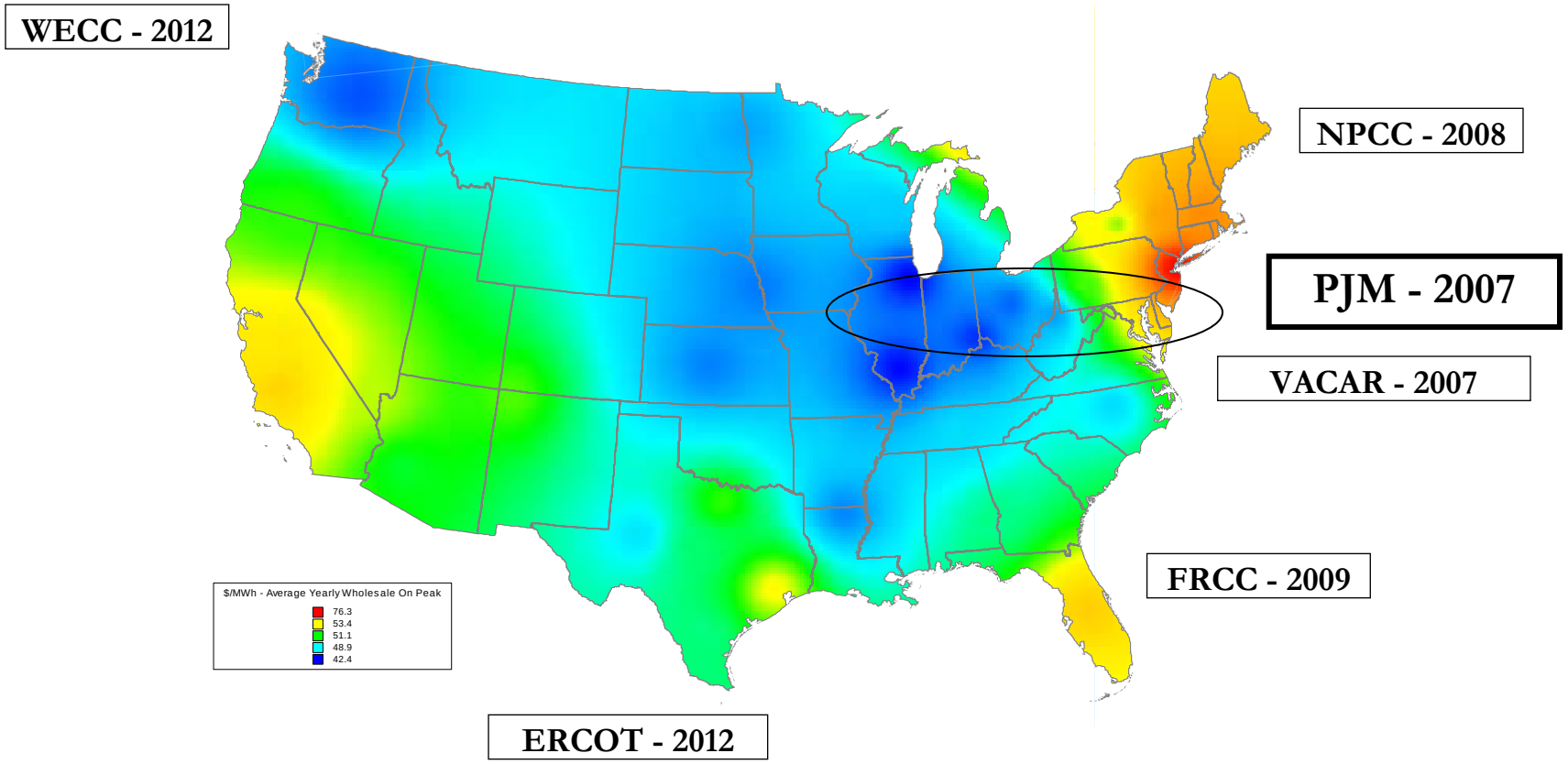
Parallels to our Present: 2009

- Political:
  - Iraq War
- Economic:
  - On Jan 30, 2009, President Obama stated, “The recession is deepening, and the urgency of our economic crisis is growing. Yesterday, we reached a new threshold: the highest number of Americans receiving unemployment benefits on record.”
- Environmental Movement:
  - Global concerns include reduction of greenhouse gases and global warming

Advanced New Nuclear Technology – Building for our Future

Supply and Demand In the U.S.

Date when minimum reserve margin (18%) was/is reached



The U.S. Has A Growing Need For New Generation

Source CERA

What is UniStar Nuclear Energy?

- A new and unique business model for the U.S. nuclear industry enabled by passage of Energy legislation
- Joint venture between Constellation Energy and EDF Group that offers a business framework leading to the development of future joint ventures
- Project companies will license, construct, own and operate nuclear power plants as part of a standardized fleet
- UniStar's prime technology is AREVA's Evolutionary Power Reactor (EPR), which, upon conversion to US standards, will be known as the U.S. EPR
- A single source approach with AREVA (design), Bechtel (construction), Alstom (turbine-generator systems), Accenture (IT), and UniStar Nuclear Energy (operator along with project company partners)

Platform designed to reduce the risks, costs, and uncertainty of new nuclear

UniStar Partners

accenture

AREVA

ALSTOM

BECHTEL

UniStar NUCLEAR ENERGY

ppl

AmerenUE

Constellation Energy

eDF

Bell Bend 1 U.S. EPR	Callaway 2 U.S. EPR	Calvert Cliffs 3 U.S. EPR	Nine Mile 3 U.S. EPR	Flamanville 3 EPR
8 Nuclear Reactors in Operation				58 Nuclear Reactors in Operation

U.S.

104 operating reactors

20+ different designs

Some operated as fleet

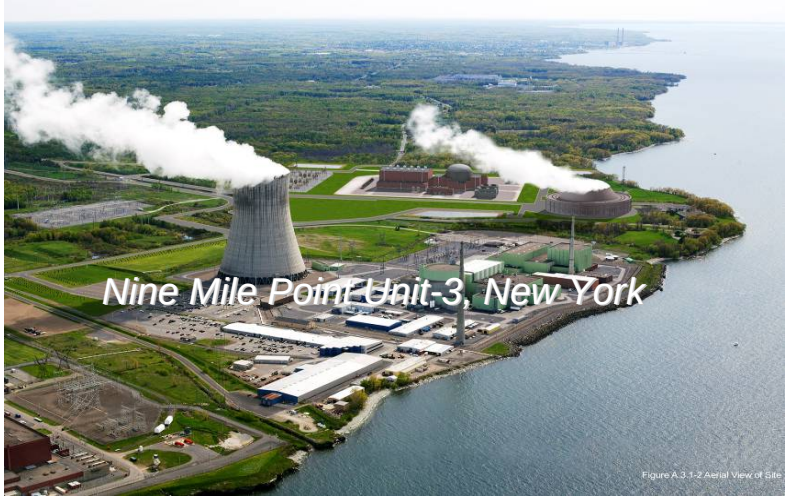
France

58 operating reactors

3 designs

All operated as fleet

UniStar - U.S. EPR Projects



U.S. EPR – The Safest, Most Secure Technology Available

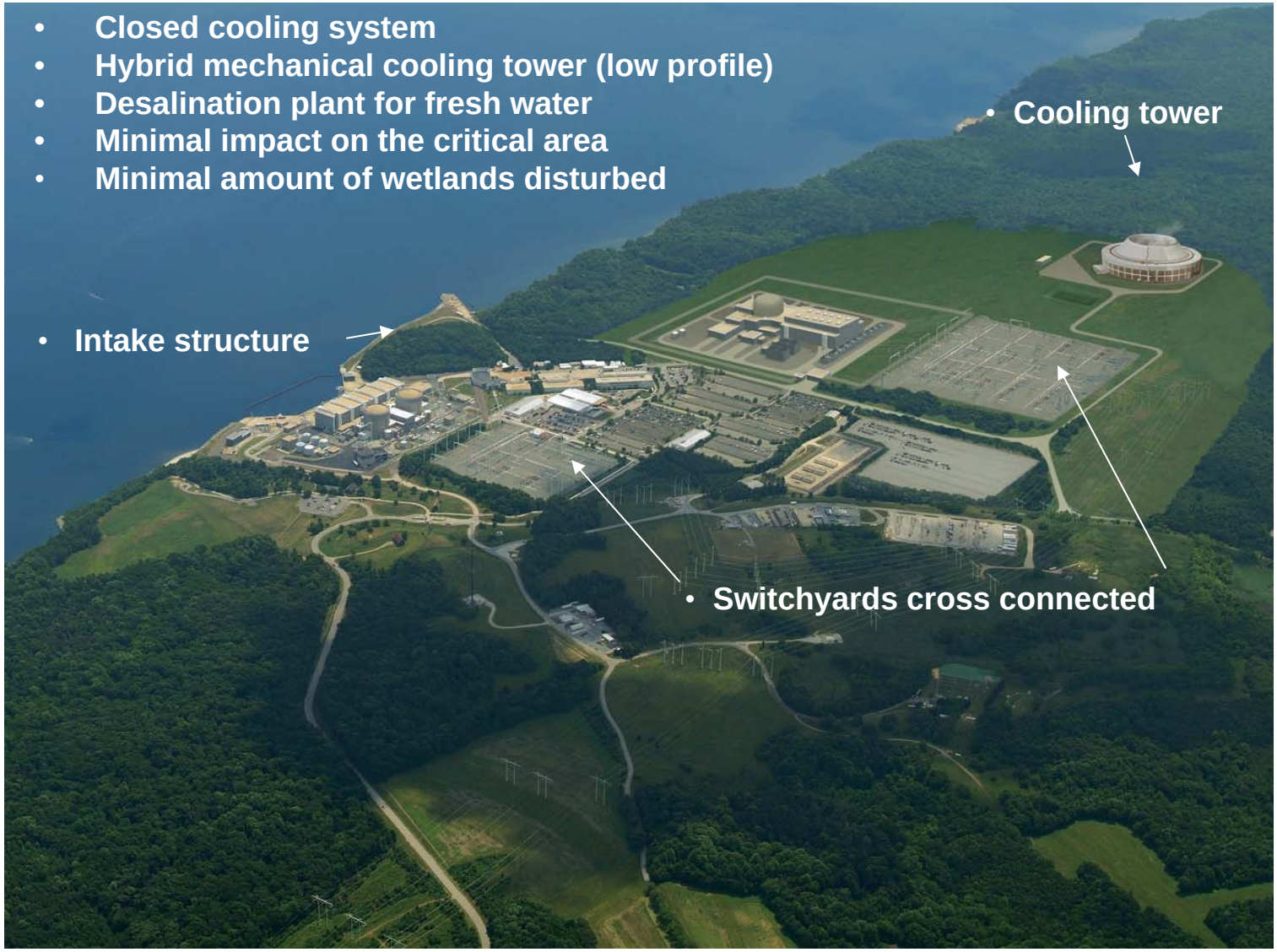
- **Four independent safety trains in separate buildings, provide redundancy for maintenance or single-failure criterion**
- **Physical separation against internal hazards (e.g. fire)**
- **Shield building extends airplane crash and external explosion protection to two safeguard buildings and fuel building**
- **Corium**

EDF

UniStar NUCLEAR ENERGY

Constellation Energy

CCNPP Unit 3 Artistic Rendering



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