

SC Energy Users Committee Annual Meeting



John E. “Butch” Howard, Chairman
May 6, 2011



Randy Mitchell
District 3



Swain E. Whitfield
At Large



Elizabeth "Lib" Fleming
District 4



David A. Wright
District 2



G. O'Neal Hamilton
District 5



Nikiya "Nikki" Hall
District 6



John "Butch" Howard
Chairman
District 1

Commissioners



Introductory Remarks



The Future of **CLEAN ENERGY**



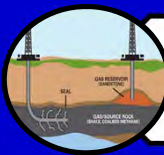
The **FUKUSHIMA DAIICHI** Disaster



The Regulation of **COAL ASH**



The Regulation of Power Plant **COOLING WATER**

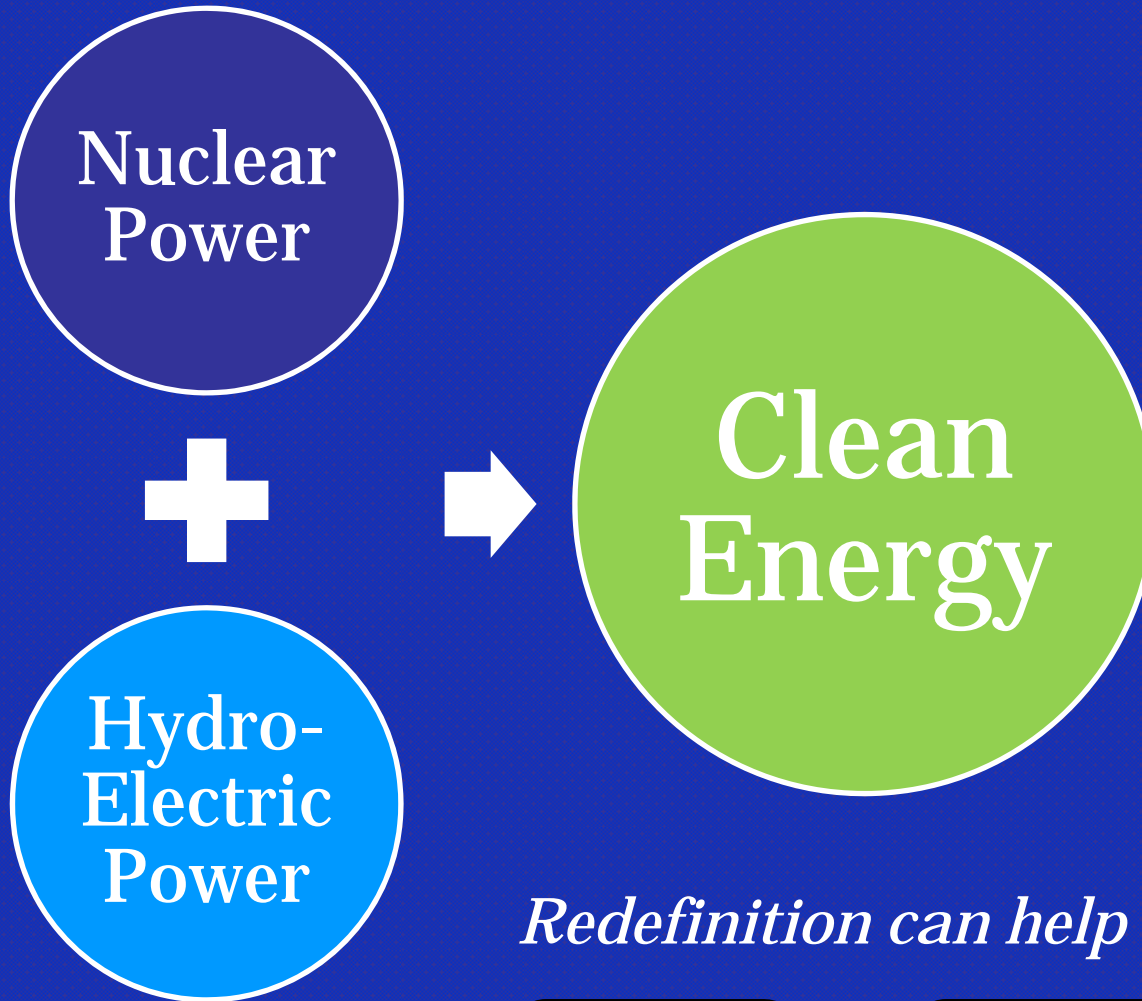


The Implications of **SHALE GAS**



The Eastern Interconnection Planning Initiative – **EIPC & EISPC**

Clean Energy vs. Renewable Energy



Redefinition can help SC and Southeast

**Coal-fired
Generation**

**Fewer
Renewable
Resources**

**Base Load
Review
Act in SC**

The Fukushima Daiichi Disaster



Fukushima Daiichi



Before March 11, 2011

After March 11, 2011



Effects of Fukushima Daiichi Disaster



Damaged Reactors and Spent Fuel

Impact on Operating Plants and New Licenses

JAPAN

Radioactive Materials Released

Review of U.S. Plants and Proposed New Designs

UNITED STATES

TVA's Kingston Fossil Plant Slurry Spill



12/22/08

Coal Ash
Slurry

+/- 300
Acres

Nearby
Rivers

Proposed EPA Regulations for Coal Ash

Alternative 1

- Special Waste
- EPA Regulate (permitting, generation, and disposal)

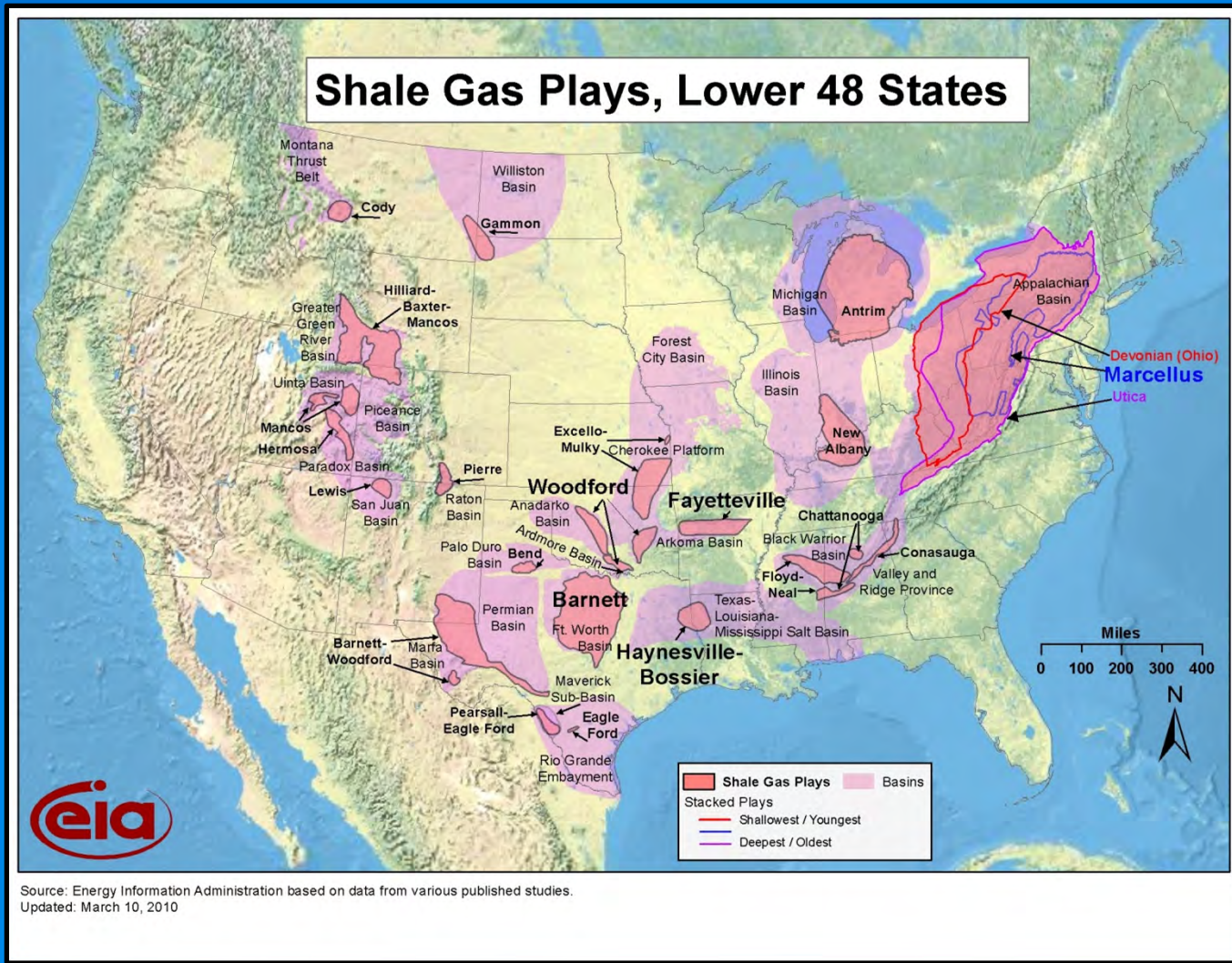
Alternative 2

- Non-hazardous Waste
- States Regulate

Utility and customer cost impact with both.

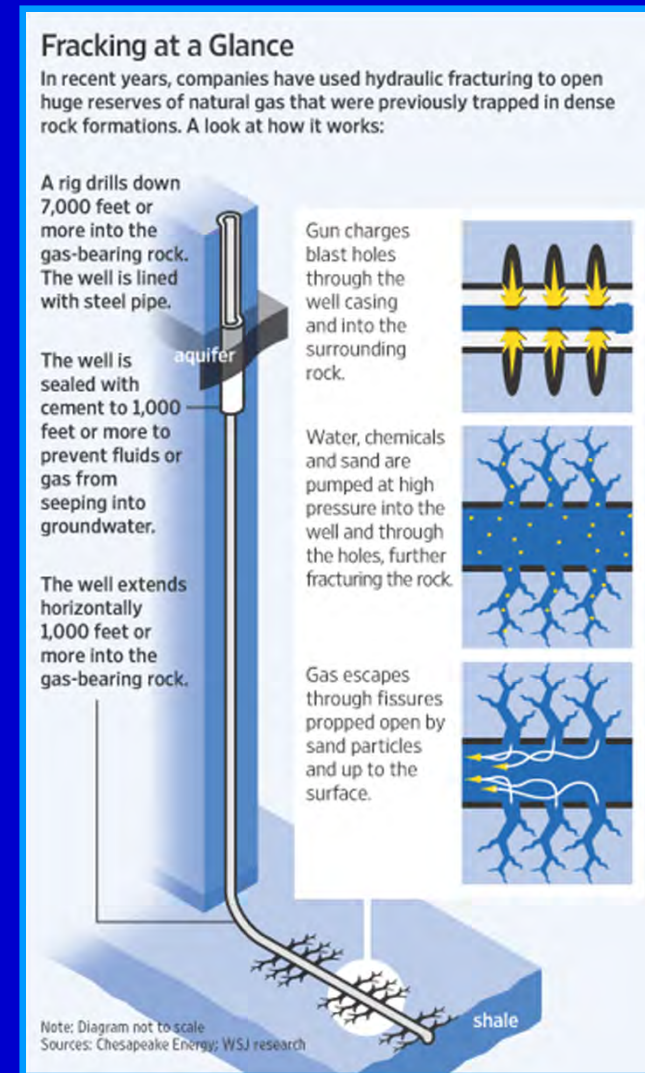


**New Power Plant Cooling
Water Regulations –
What Will They Mean?**



Shale Gas is natural gas trapped within shale rock formations.

Horizontal Drilling + Fracking = Large Volumes at Lower Prices



So, what's the problem?

SHALE GAS

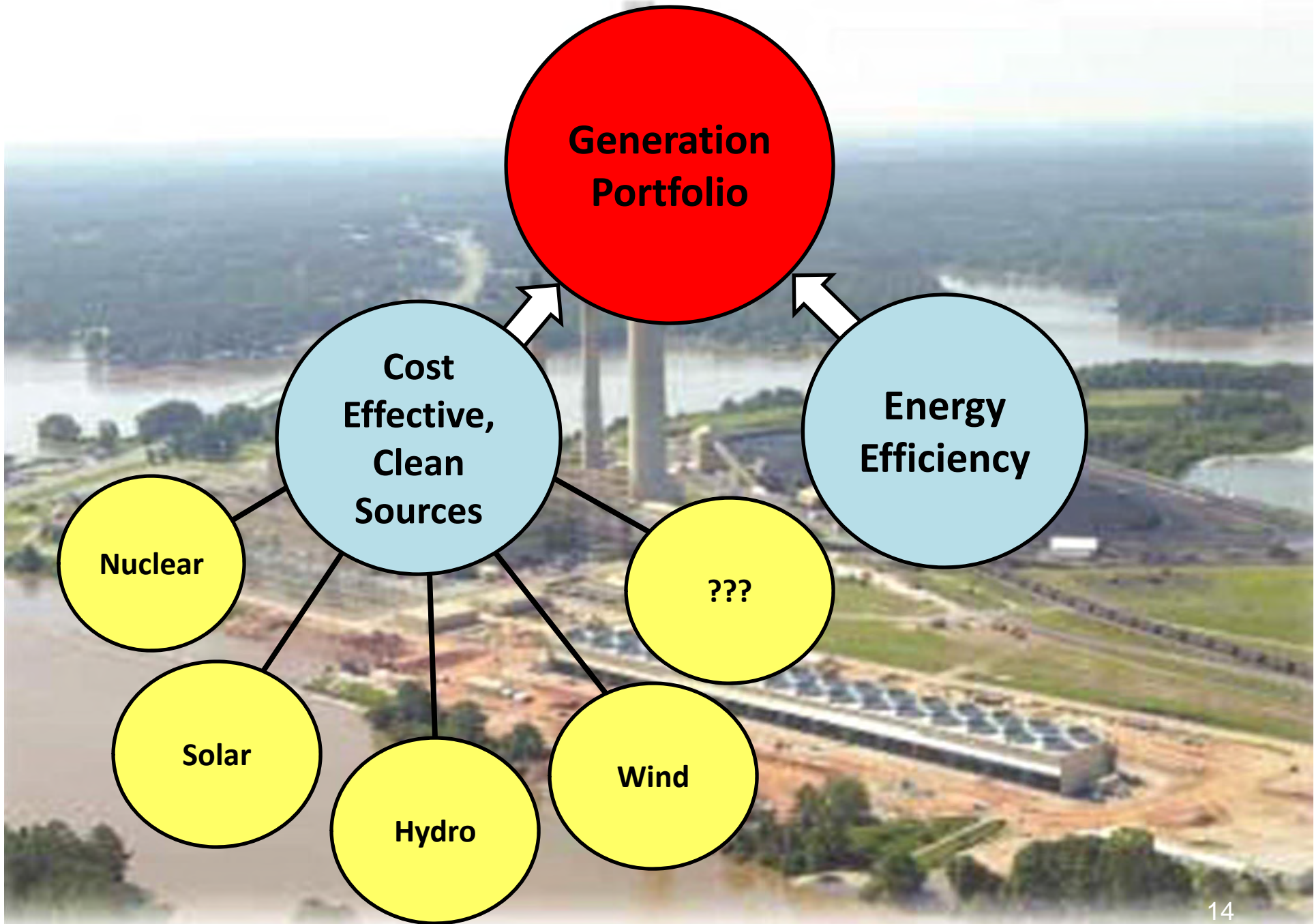
Natural gas has emissions.

Fracking uses much water.

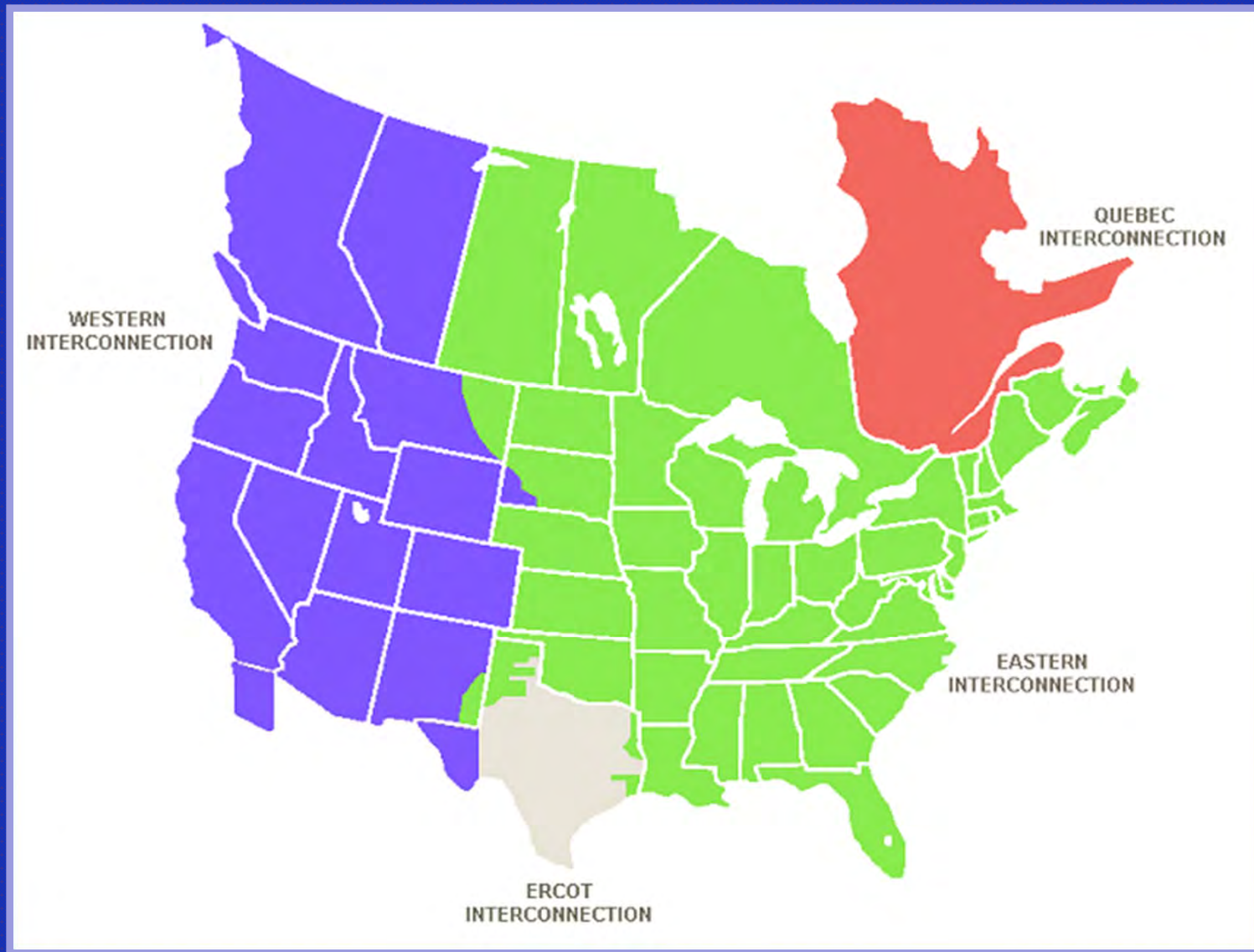
Fracking uses chemicals.

Fracking leaves much
wastewater.

Focus removed from wind
and solar energy.



U.S. Interconnections



DOE Grant

Eastern Interconnection
Planning Collaborative

EIPC

System Modeling

Eastern Interconnection
States Planning Council

EISPC

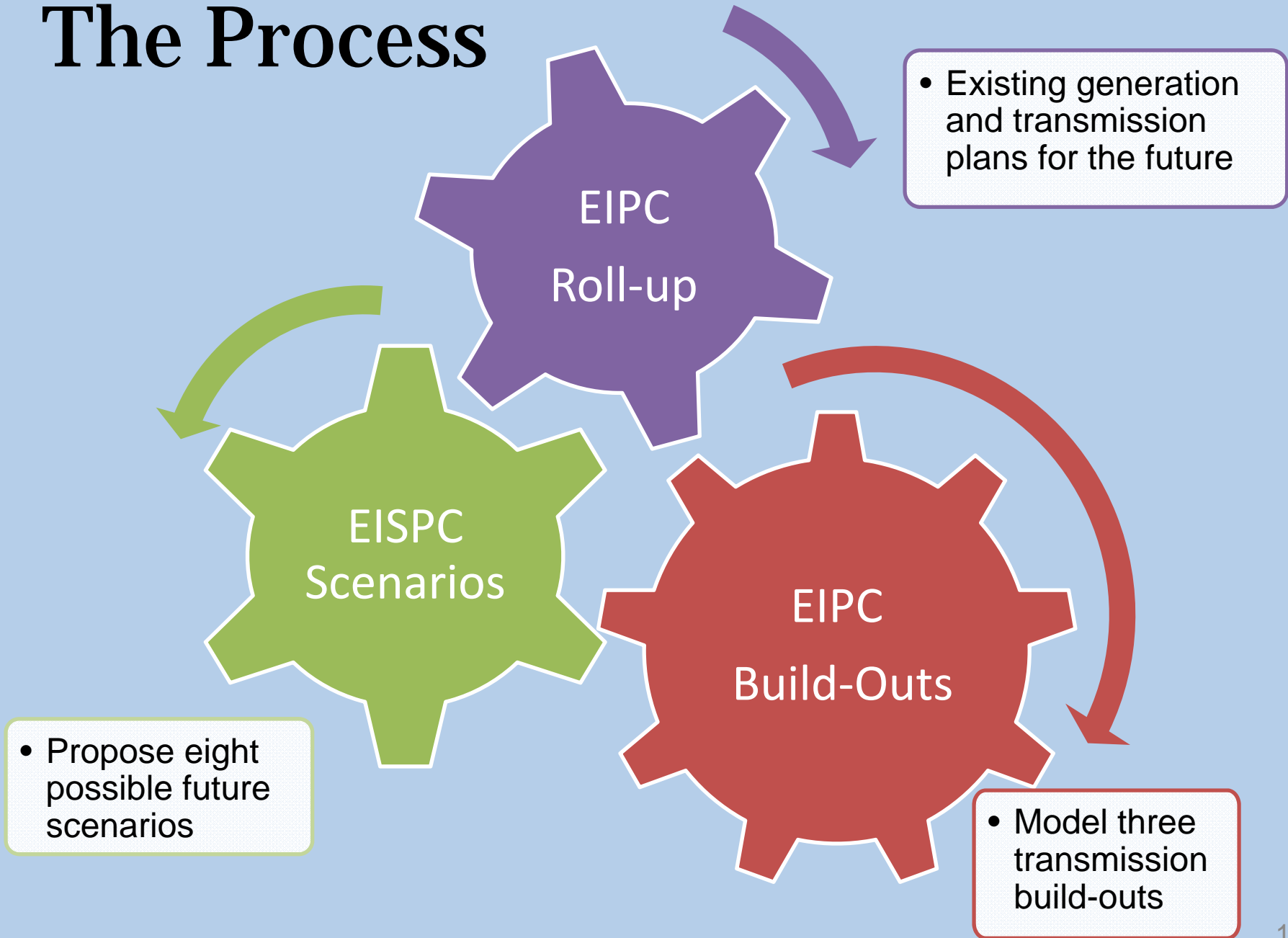
Policy

- 39 States
- Canada
- District of Columbia
- City of New Orleans

Lib
Fleming

Dukes
Scott

The Process



DOE Grant (2010-2013)

Eastern Interconnection
Planning Collaborative

EIPC

System Modeling

Eastern Interconnection
States Planning Council

EISPC

Policy

**Ultimate Objective
Guidance for Planning
Authorities – NOT Direction**

EIPC
Build
-Outs

A lasting
planning
structure



A rendering of Boeing's Final Assembly plant with solar panels installed.
(Courtesy SCE&G)

BOEING lands in Charleston, SC



Questions?