

# SSI-3: Repurposing the Current Built Environment for the Future

Cameron Brooks April 5, 2019

# E9 Insight



Why 9? Newsletter: http://e9radar.link/why9

### 1. Commission Activity

monthly newsletter and online proceeding database

#### 2. Tailored Research

curated updates and market segmentation

### 3. Engagement Support Tools

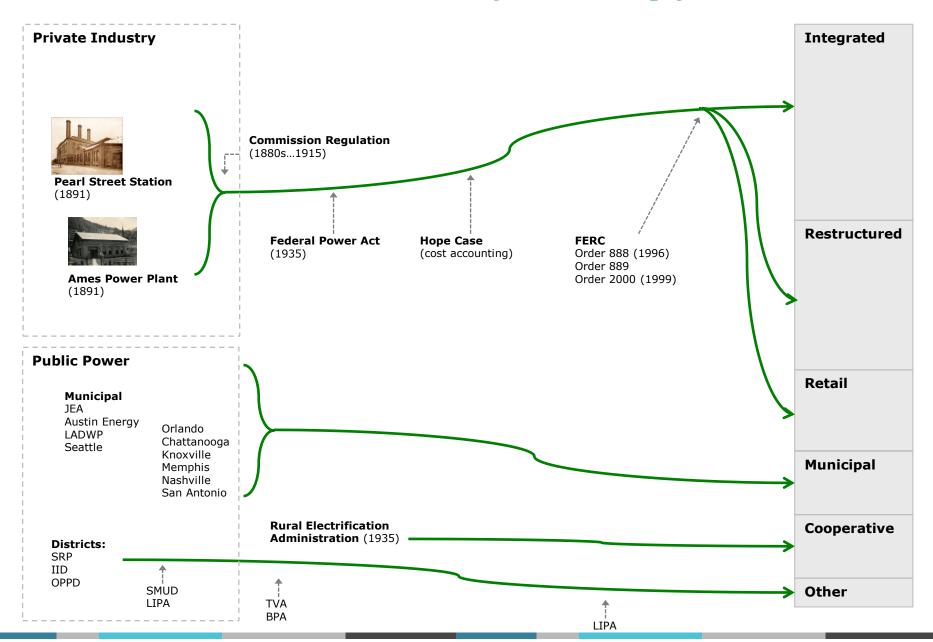
meeting monitoring and stakeholder comments





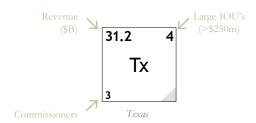


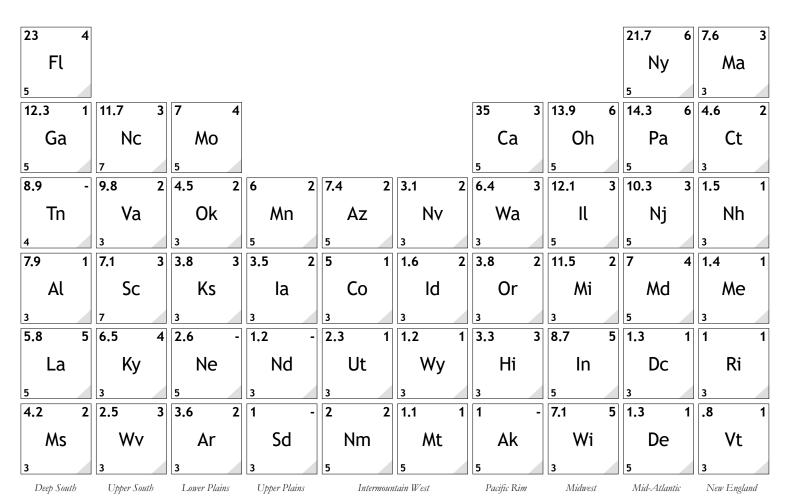
### **Historical Overview**...utilities and regulations deeply enmeshed





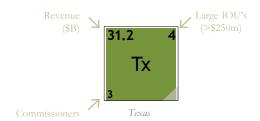
#### Periodic Table of State Policy



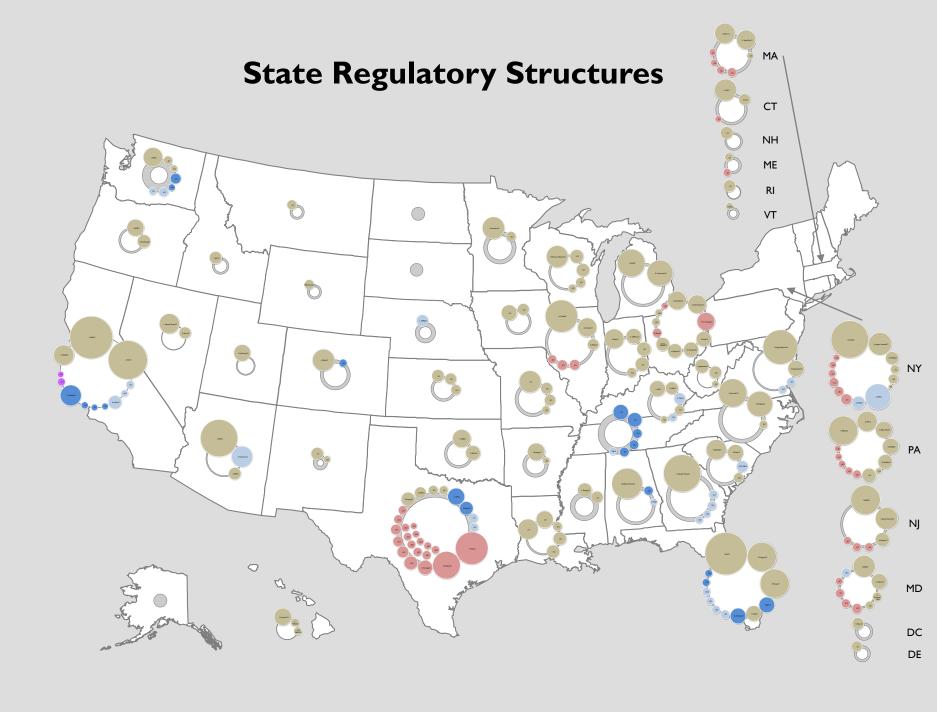


Electricity Journal: http://e9radar.link/table (July 2015)

## **Periodic Table of State Policy**FAMILIES



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Smyth v. Ames (1898) United States v. Terminal Railroad Assoc. (1912) Federal Power Comm. v. Hope Natural Gas (1944)

...

"We must fit our legal principle to the economy of the industry and not try to fit the industry to our books."





# Two kinds of "efficiency"

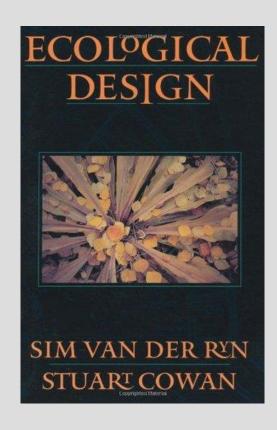
$$e_1 = \frac{Heat_{captured}}{Heat_{content}}$$

$$e_2 = \frac{Energy_{task}}{Energy_{actual}}$$

1<sup>st</sup> Law: Conservation of Energy 2<sup>nd</sup> Law: Entropy Increases

### The path to the "utility of the future"?





### Five Principles:

- 1. Solutions grow from place
- 2. Ecological accounting informs design
- 3. Design with nature
- 4. Everyone is a designer
- 5. Make nature visible

"The process of modernization stimulated by the Industrial Revolution found its most sublime expression in electrical power." "The process of modernization stimulated by the Information Revolution found its most sublime expression in ....."

## Thank You



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