



ThinkMicrogrid

NARUC-NASEO Working Group

December 17, 2021



ThinkMicrogrid

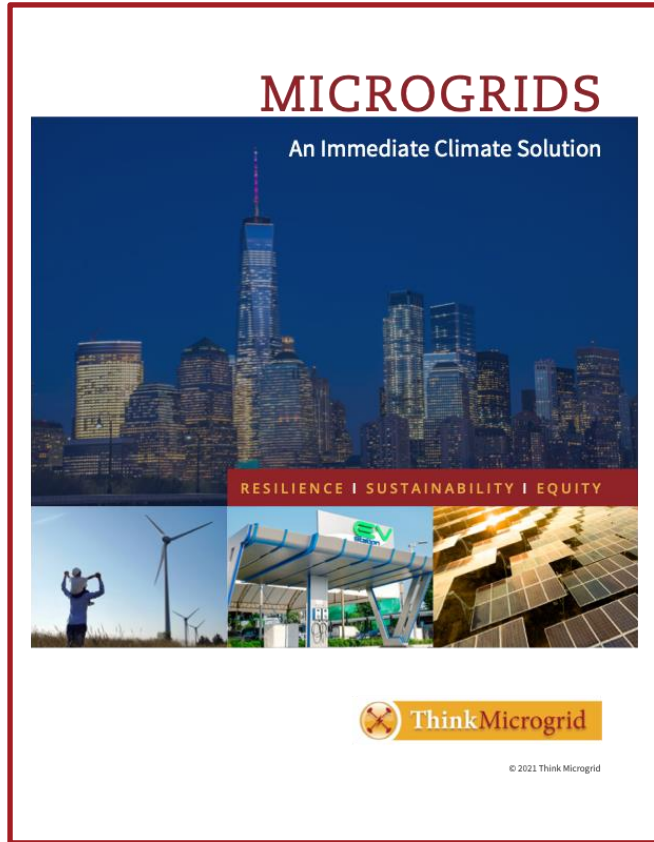


Priority Areas

- **EDUCATION:** resources and editorial strategy for media and political sphere
- **EVANGELISM:** commissioners, executive leaders and energy influencers
- **ENGAGEMENT:** convening leaders and participating in proceedings, roundtables and policy development



Vision Paper



Microgrid Overview:

- What are they?
- What kinds are there?
- What are the policy issues?

Policy Topics:

- Regulatory Treatment
- Rate Design & Tariff Development
- Organized Market Access
- Locational Value
- Resilience Value
- Rights-of-Way Restrictions
- Interconnection Policy



State Assessment Briefing

Objectives:

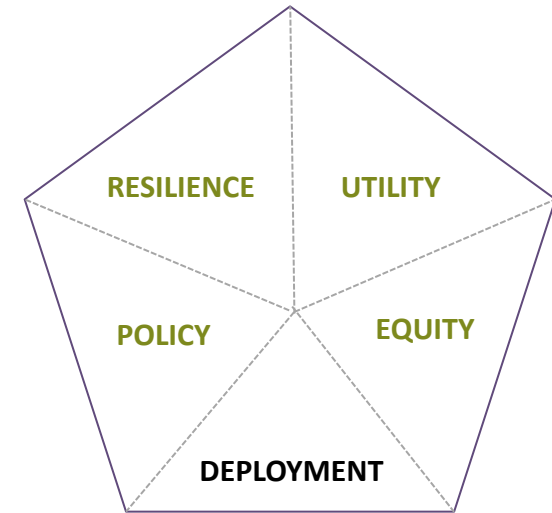
- Establish an ongoing education and engagement tool
- Continue to engage with state regulators
- Outline a roadmap for state action
- *February 2022 NARUC Winter Meeting Briefing*

Criteria:

1. Deployment: *What microgrids exist in state?*
2. Resilience: *Does an inventory of needs exist?*
3. Policy: *Is there proactive activity before the commission?*
4. Utility: *What are actions or policies of utility?*
5. Equity: *Are there explicit priorities for equity and justice?*

Simplified scoring system consistent with a “research brief”

(1,2 or 3 in each area)



Policy Summit (June 2022)

May 31

- Co-located policy summit
- Afternoon interactive event (with welcome reception)
- Specific agenda TBD
- Intention to attract policy leaders from DC and eastern seaboard



Political Enthusiasm



“I’m very supportive of microgrids.... Those solutions are very exciting and could be, and certainly should be, part of the national system. We should be incentivizing communities to think about that so that they are not so dependent on poles with wires atop that were constructed 70 years ago.”

- Jennifer Granholm

The Washington Post Granholm has advice for Texas — and for the oil industry”
February 2021

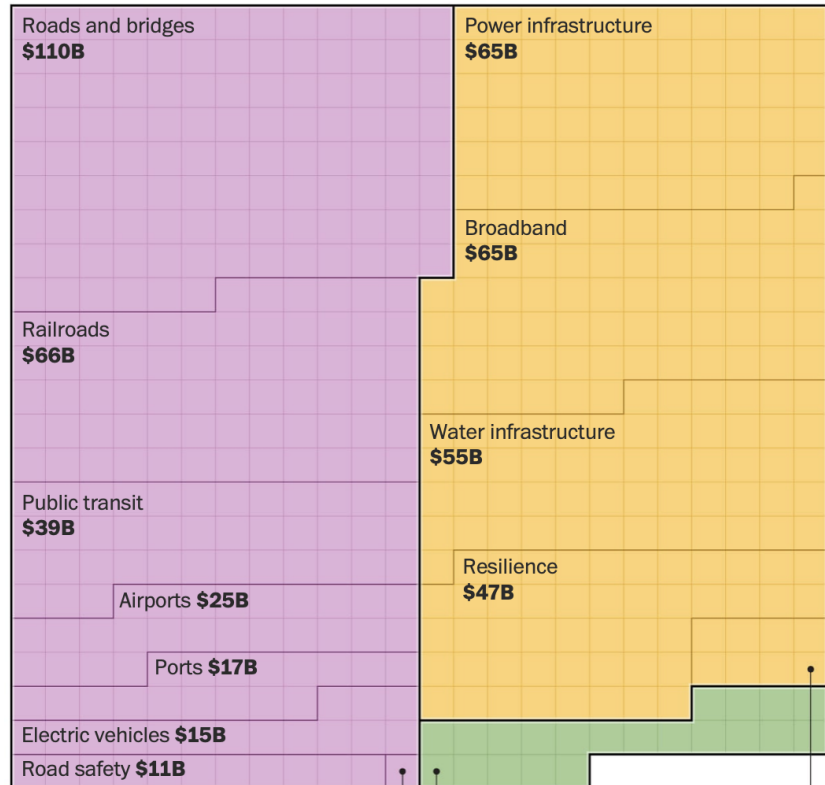


Infrastructure Investment and Jobs Act

■ = 1 billion

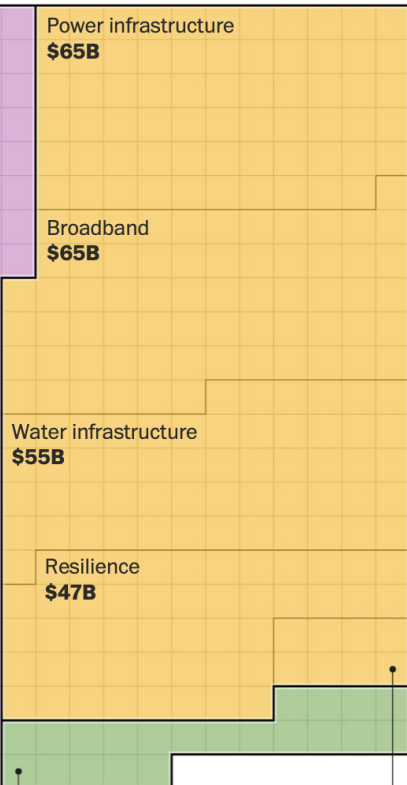
Transportation

\$284 billion



Utilities

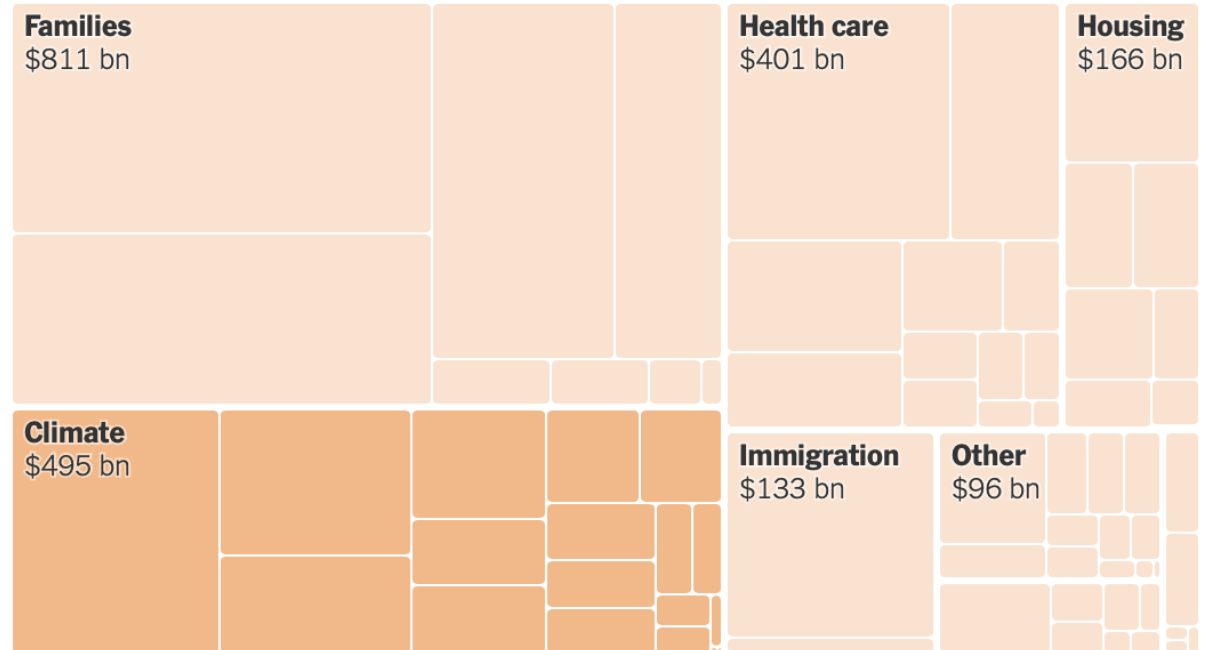
\$240 billion



Reconnecting communities
\$1B

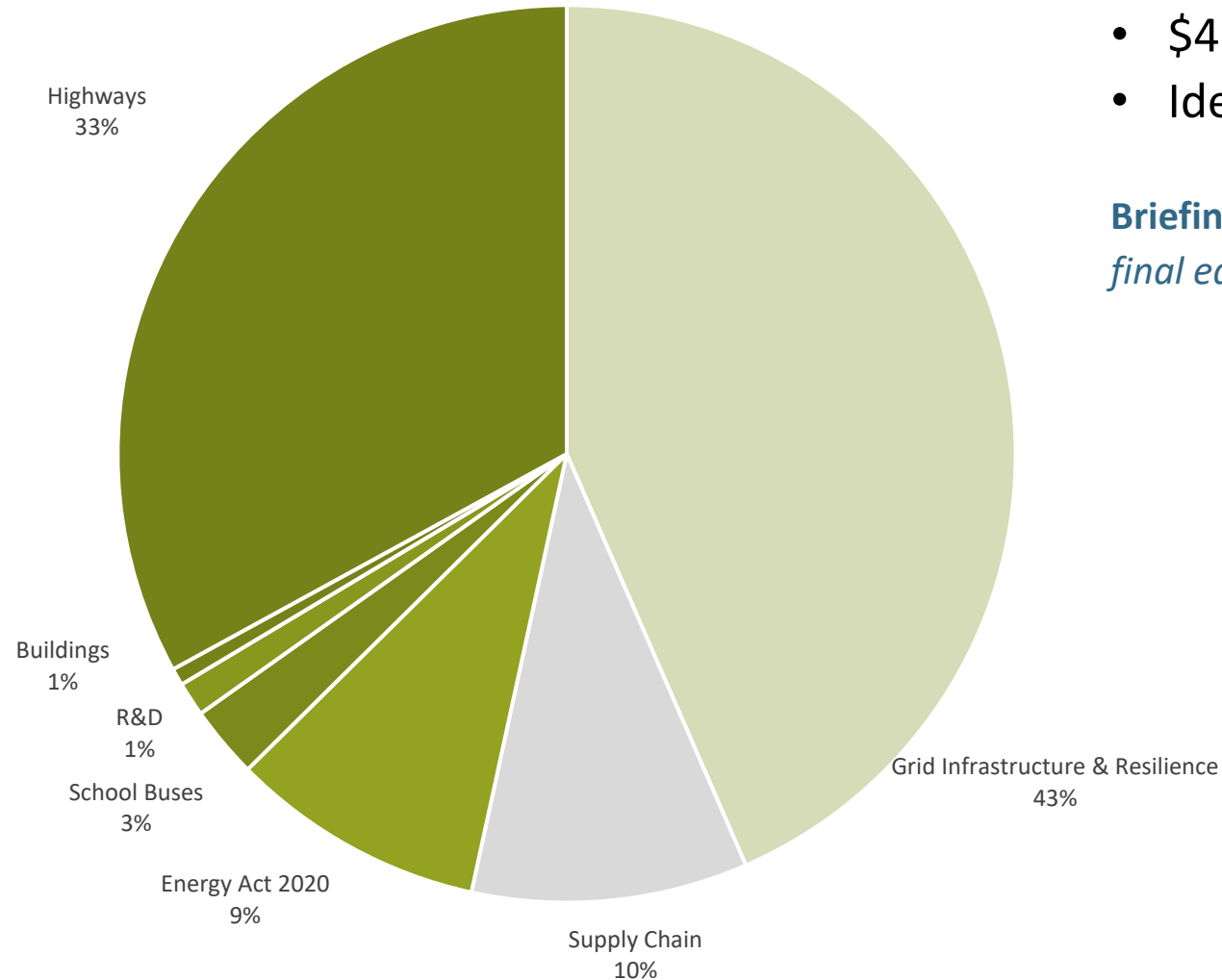
Western water infrastructure
\$8B

Spending and tax cuts



ThinkMicrogrid

Microgrid Opportunities



Relevant to resilience and microgrids:

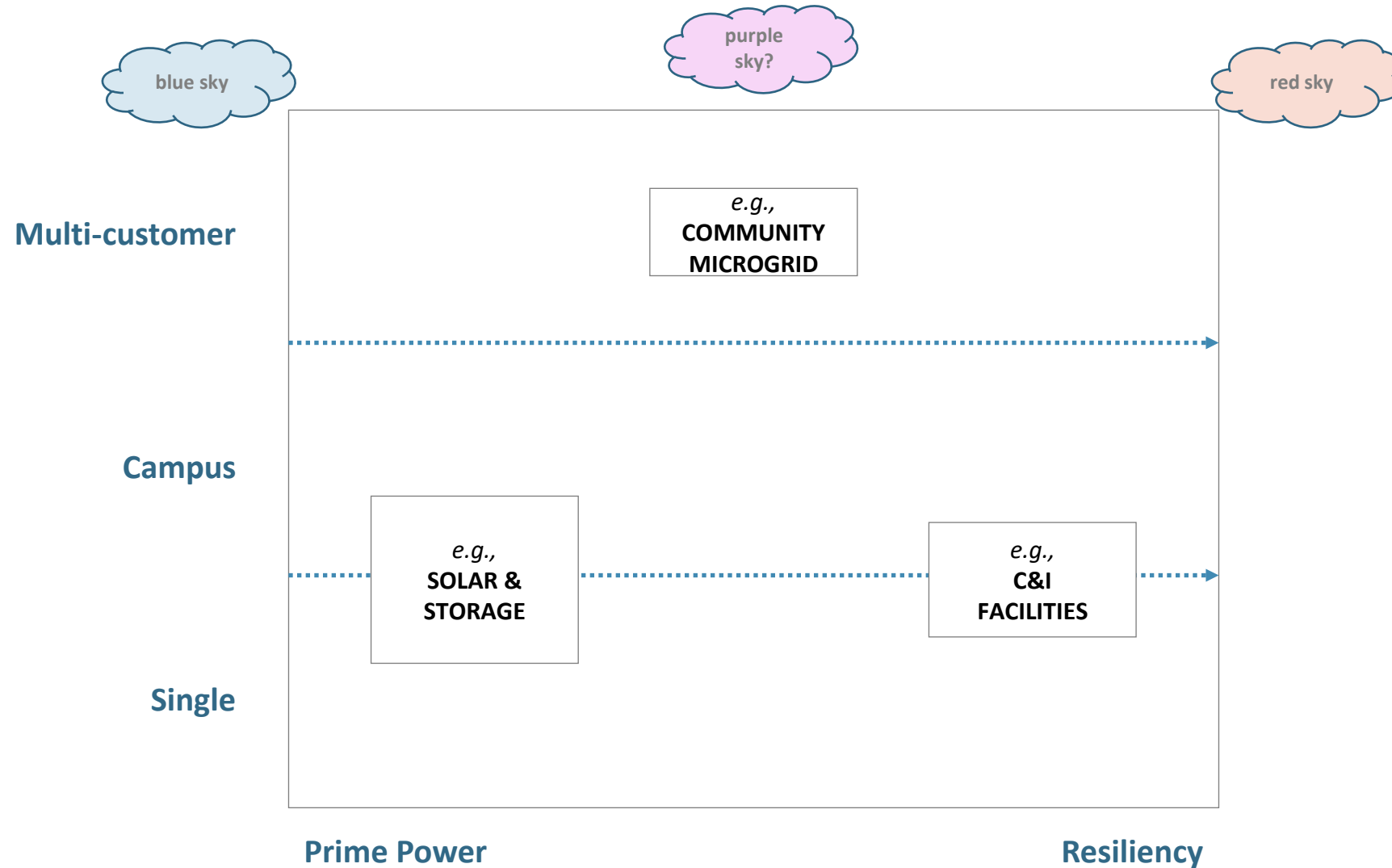
- \$41B of funding across >40 sections
- Identifying lead agencies and offices

Briefing document available

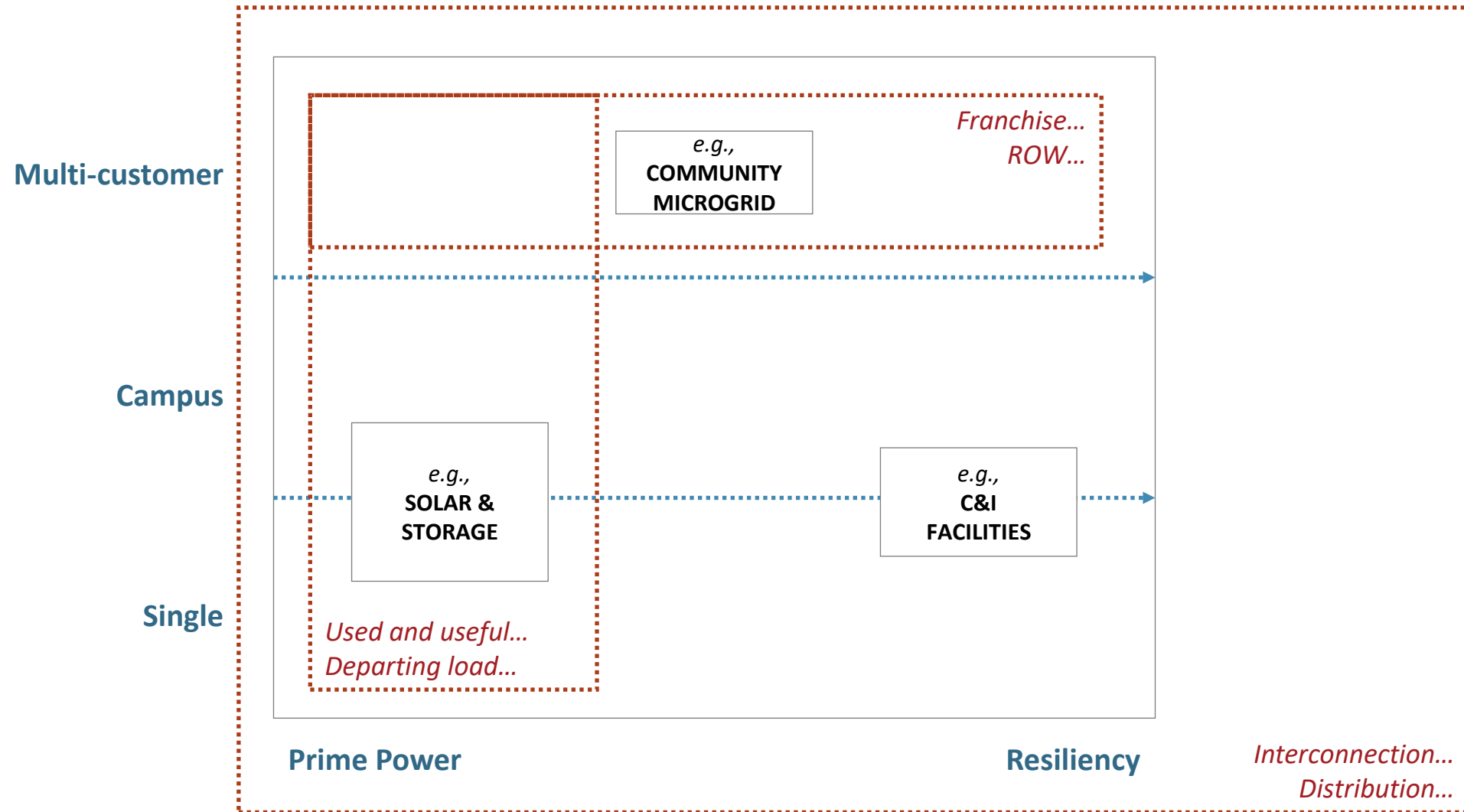
final edits underway at this hour...



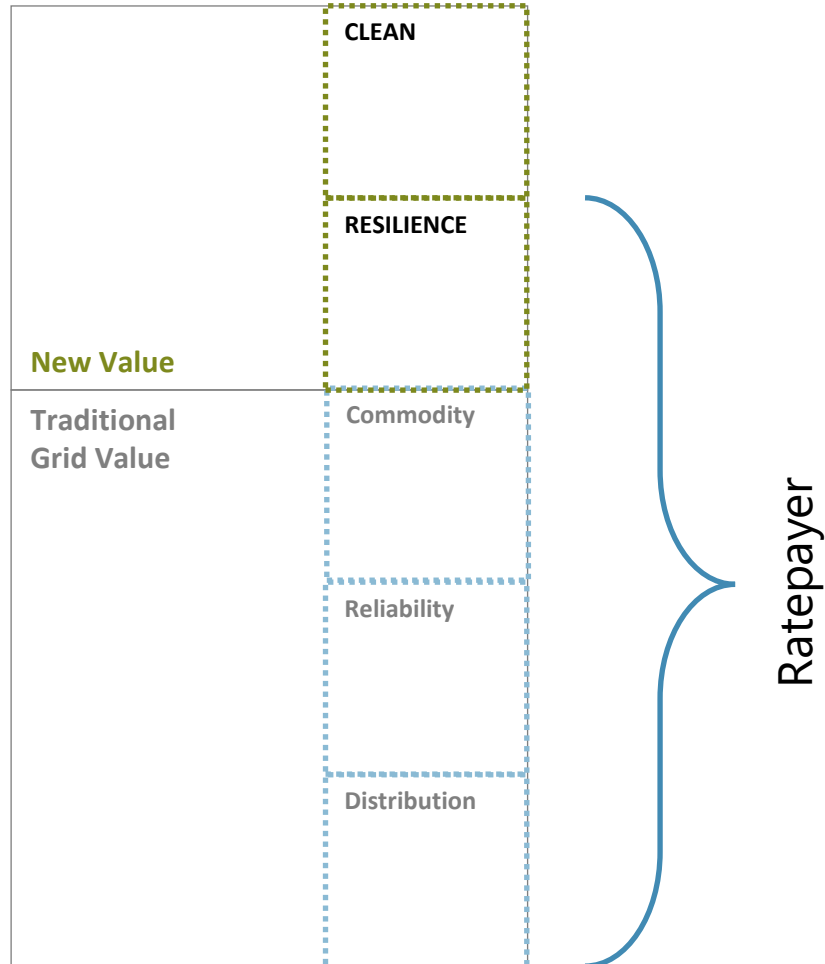
Microgrid types and policy



Microgrid types and policy



Value stack and capital



UTILITY-OWNED COMMUNITY MICROGRID

e.g.,

§40101 Preventing outages and enhancing resilience

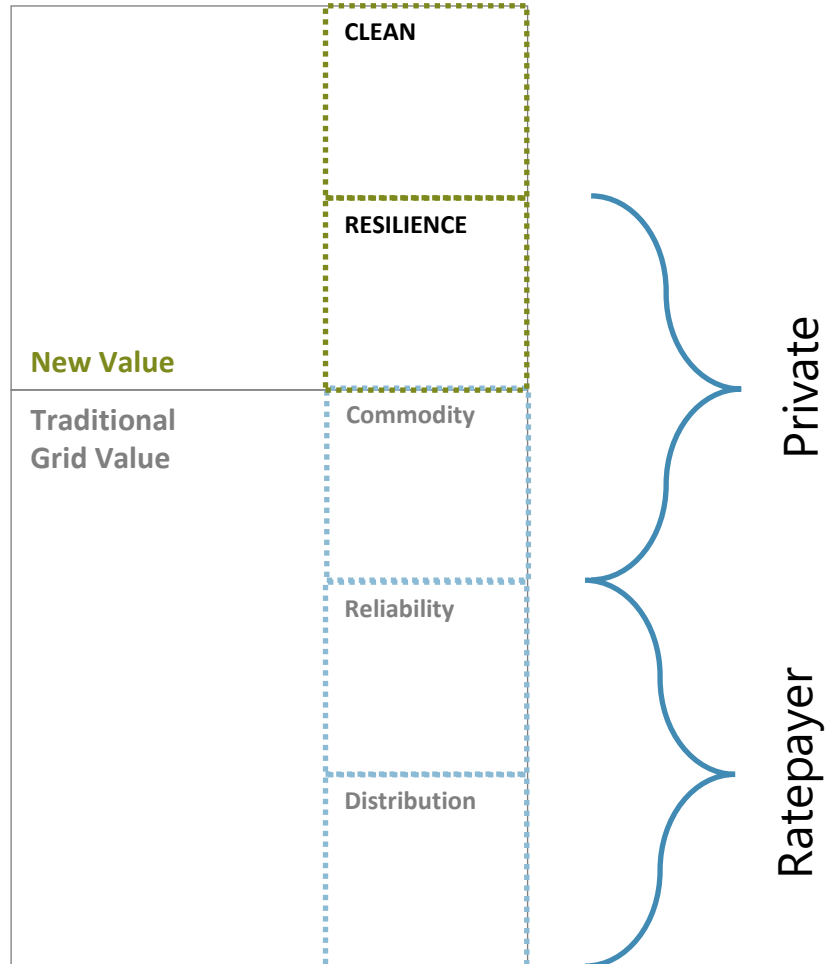
§40102 Preventing outages and enhancing resilience

§40107 Grid Flexibility

What is “value of resilience”?



Value stack and capital



C&I RESILIENCE MICROGRID

e.g.,

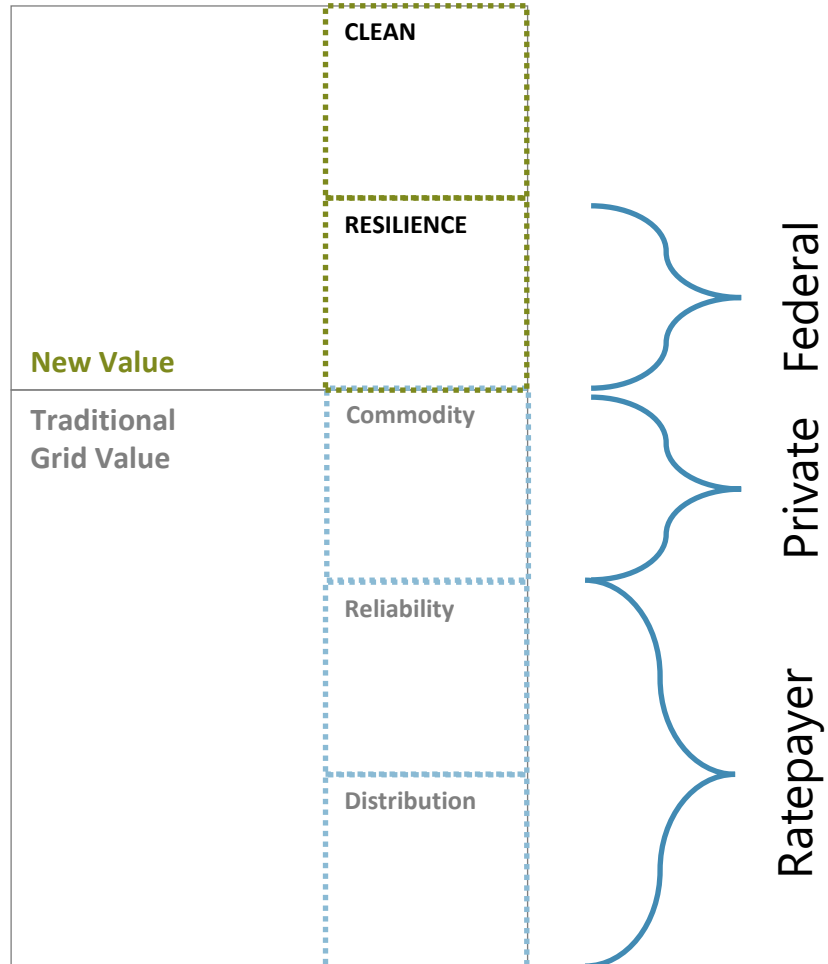
§40107 Grid Flexibility

§40121 Enhancing grid security

“Value of resilience” is determined by private capital



Value stack and capital



C&I RESILIENCE MICROGRID

e.g.,

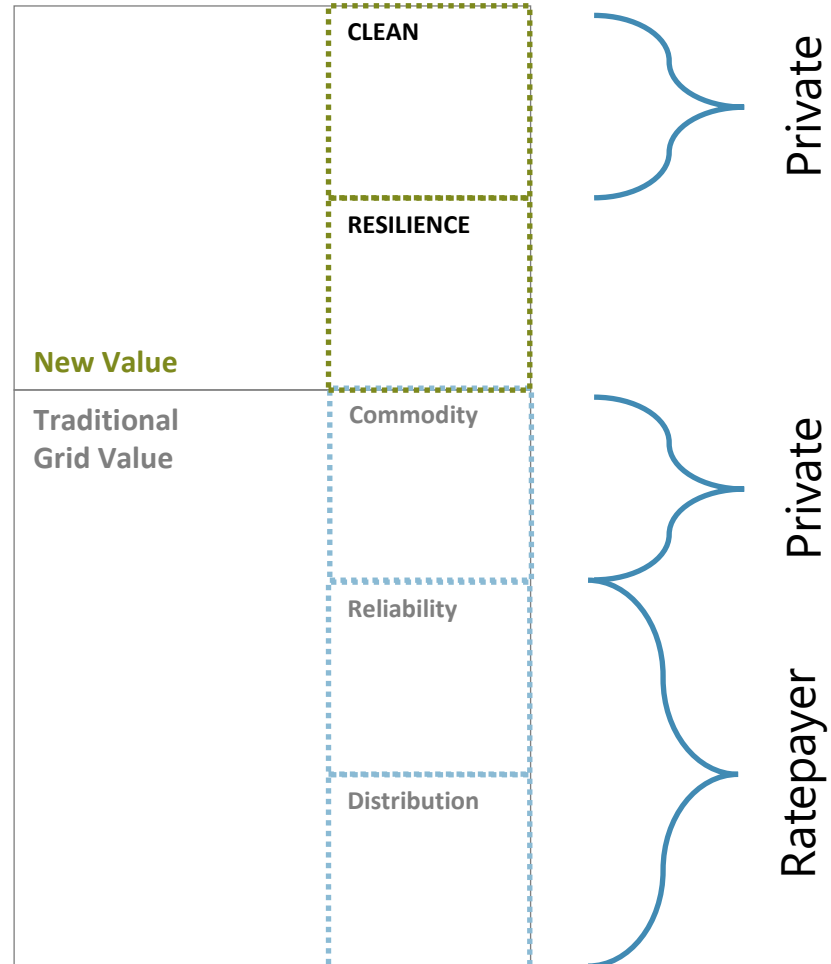
§40107 Grid Flexibility

§40121 Enhancing grid security

*“Value of resilience” is determined by private capital
...or by federal priorities*



Value stack and capital



SOLAR & STORAGE

e.g.,

§40111 Codes & Standards

§40208 Battery second-life

§41001 Energy storage demonstration

“Value of resilience” is less relevant

Rate structure implications may be complicated



Our Time is Now!

