

Purpose and Context

Purpose: Enable OneEnergy Renewables to **effectively develop battery energy storage projects** that meet WA and CO's needs and that center equity.

Context: Shifting federal & state policy and regulatory environments, load growth, and aging utility infrastructure are creating needs for new energy infrastructure. **Battery storage addresses many of these needs**, as shown below.

Early termination of solar tax credits¹

Significant load growth forecast in CO³ and WA⁴

Transmission upgrades needed to meet increased demand⁶

CO⁷ and WA⁸ Net-zero Energy Targets

Battery tax credits will not phase out until 2033²

Batteries shift peak demand, reduce peak costs⁵

Batteries defer costly upgrades, shift peak demand⁵

Batteries store excess renewable energy⁵

Methods

The Team used the following methods to research **community engagement best practices** and **market drivers** to make **recommendations for battery storage development**.

Community Engagement Approach

- Held **9** stakeholder interviews
- Completed **5** case studies
- Held **3-day** community engagement event

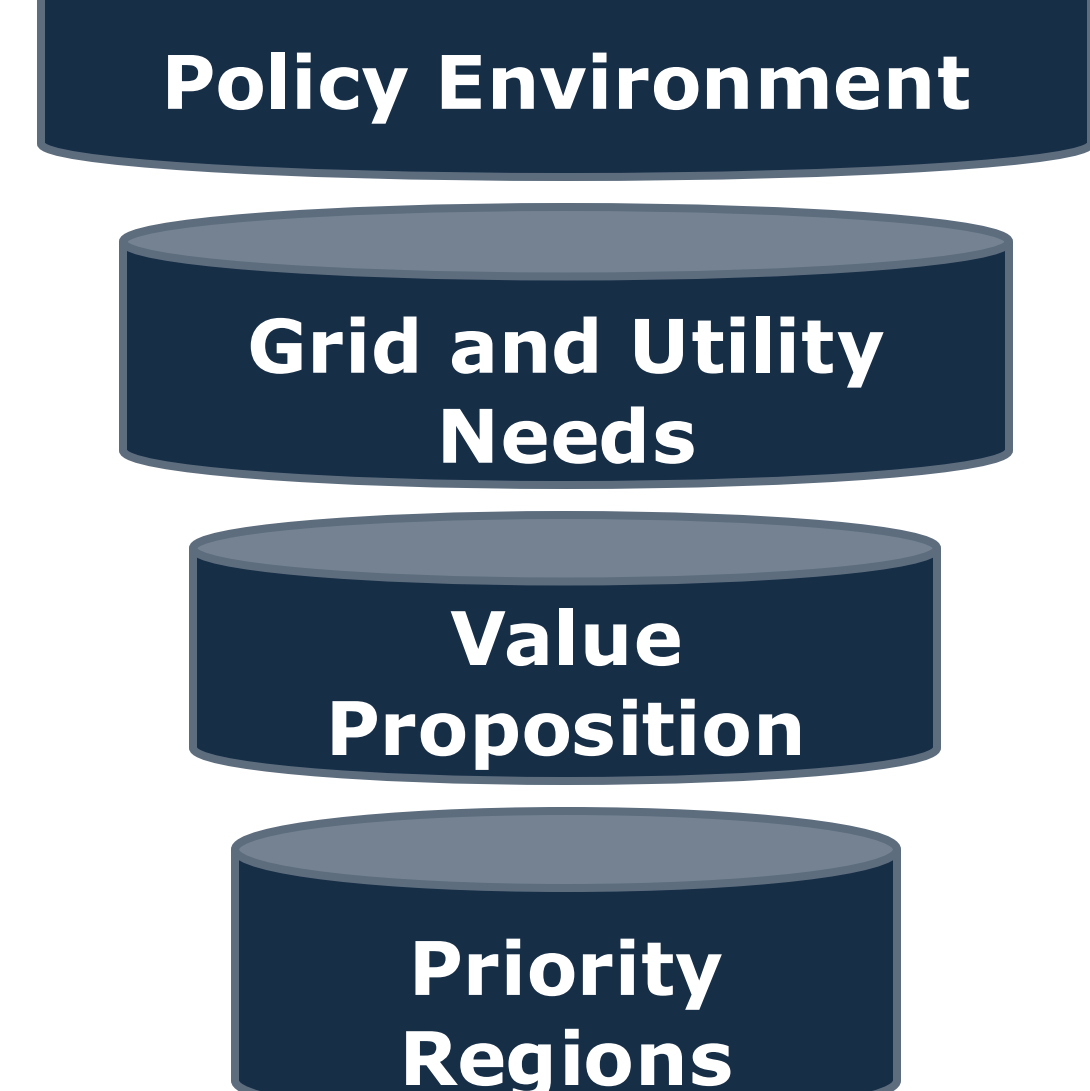
In-person Engagement

- Created **posters with key questions** and collected **responses on sticky notes**
- Printed **educational materials** (e.g., photo of battery storage)
- Limitation:** In-person engagement only reached fair attendees

Market Analysis Approach

- Reviewed more than **45** policies
- Considered over **115** utility territories
- Performed literature review
- Used funnel approach

Funnel Approach



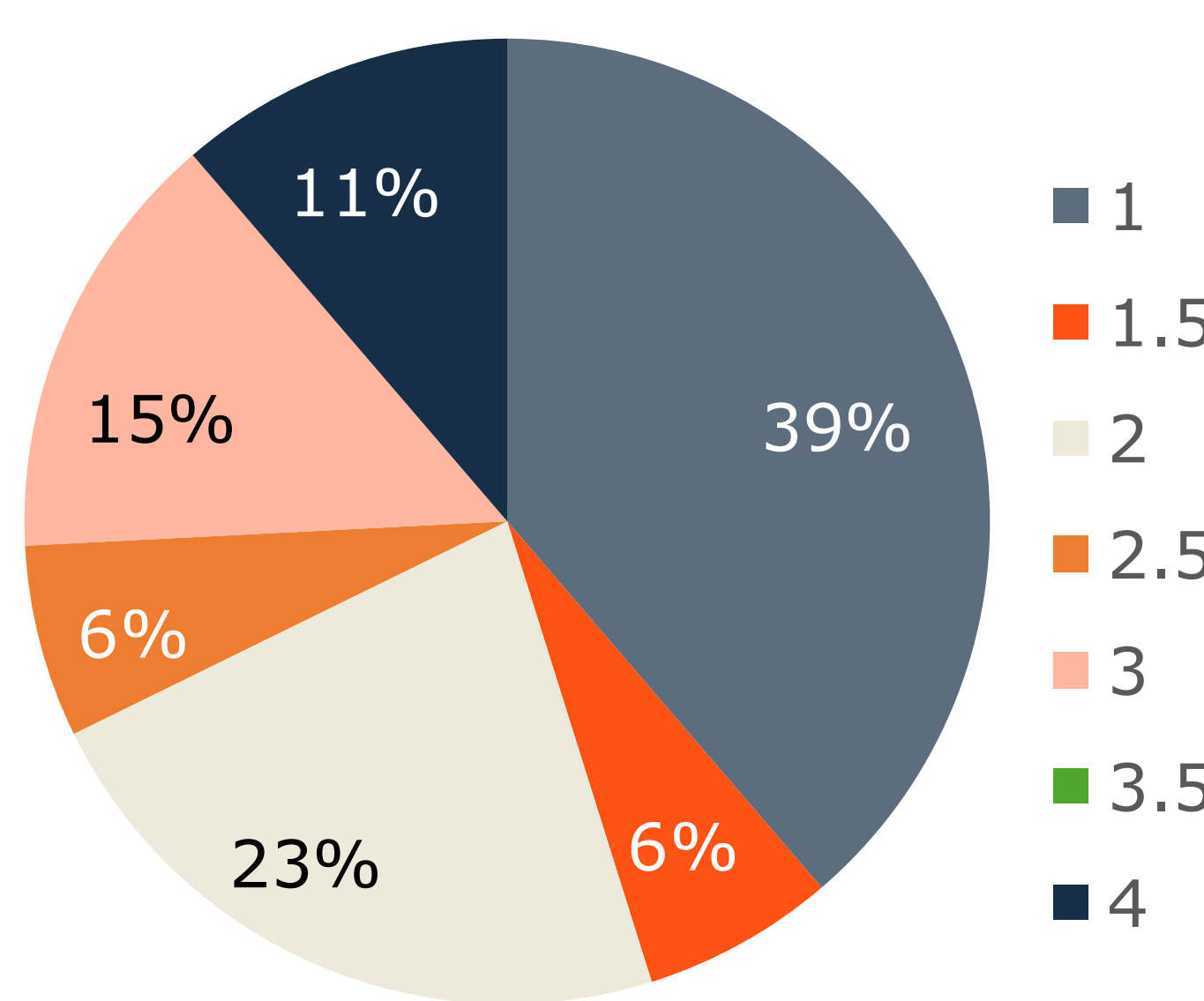
Battery Energy Storage Units⁹



CO Engagement Findings

The Capstone Team tabled the Weld County Fair to **gauge community sentiment on battery energy storage** and **inform engagement recommendations**. Findings include:

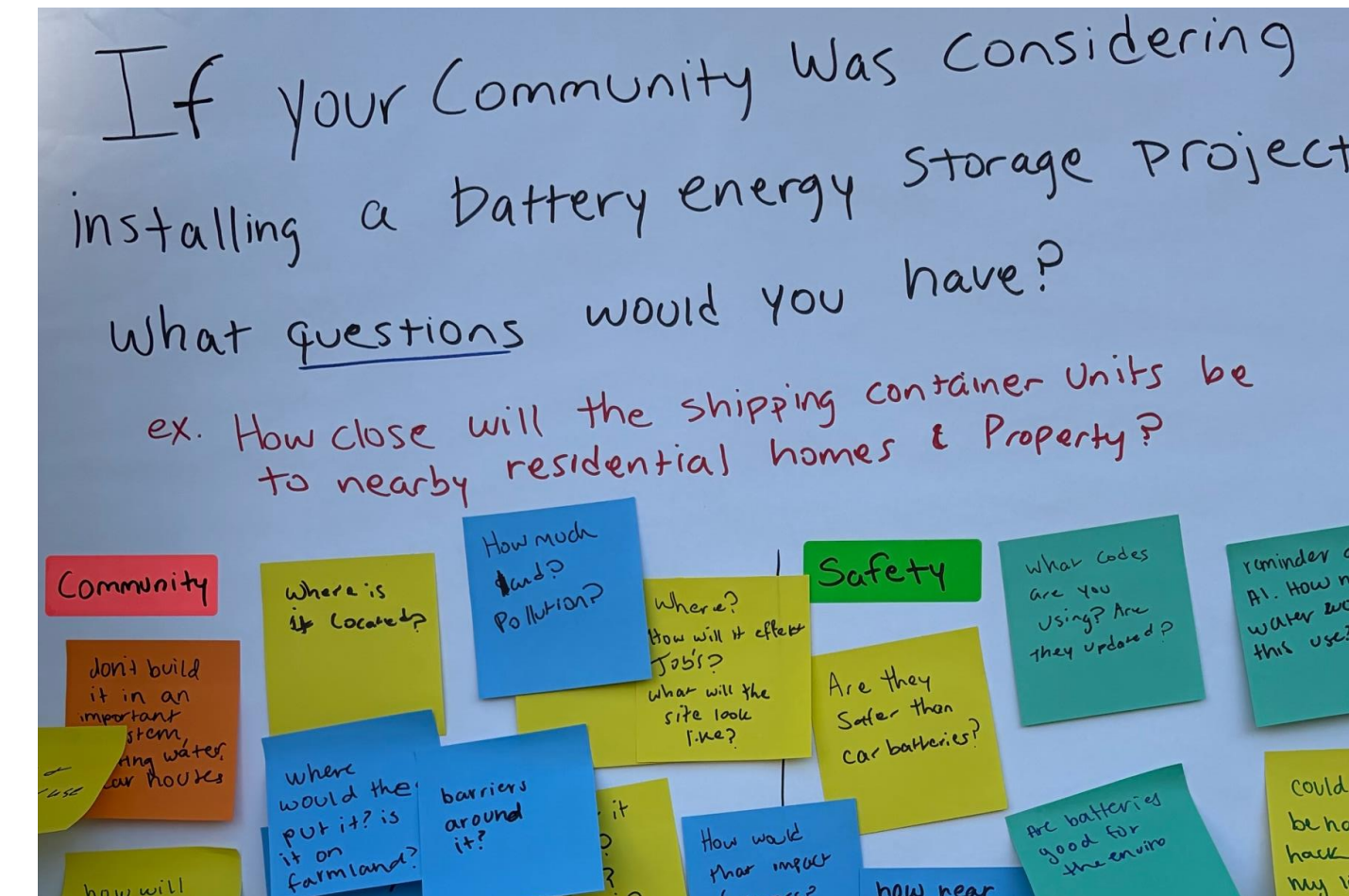
Reported **familiarity with battery storage** (Scale of 1-5):



Key Takeaway: Community members expressed **low familiarity** with battery storage.

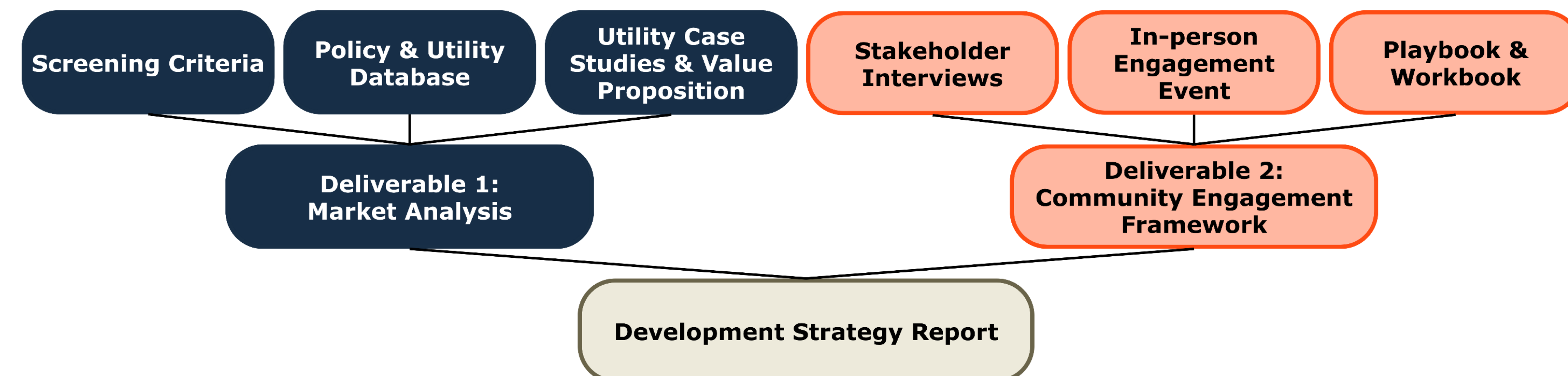
Recommendation: Incorporate more **educational content** in future battery storage engagement.

Weld County Fair Community Engagement Photos



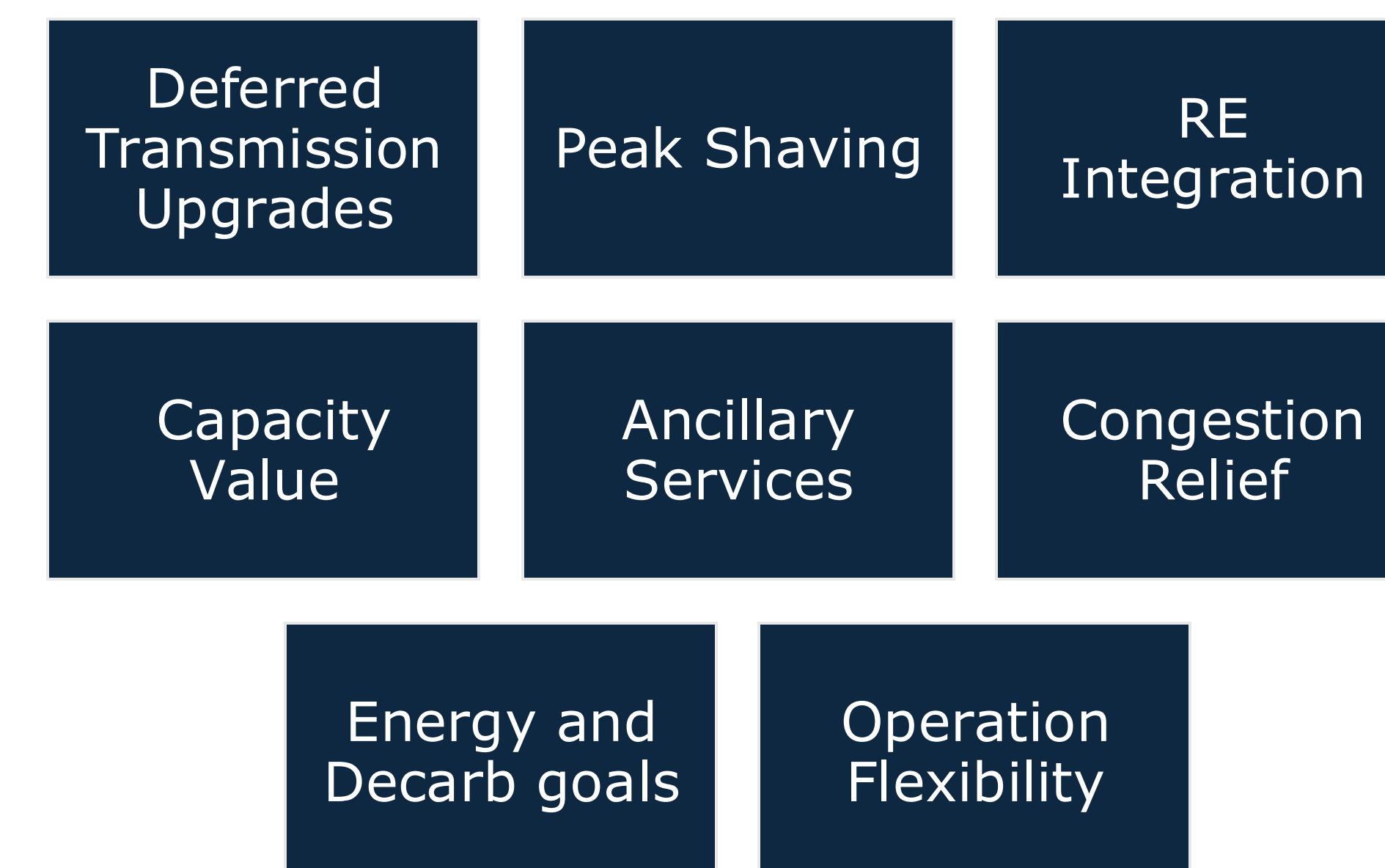
Deliverables

The Capstone Team performed **market** and **community engagement** research to **make recommendations to OneEnergy on how to develop battery storage projects**, focusing on the contexts of WA and CO.



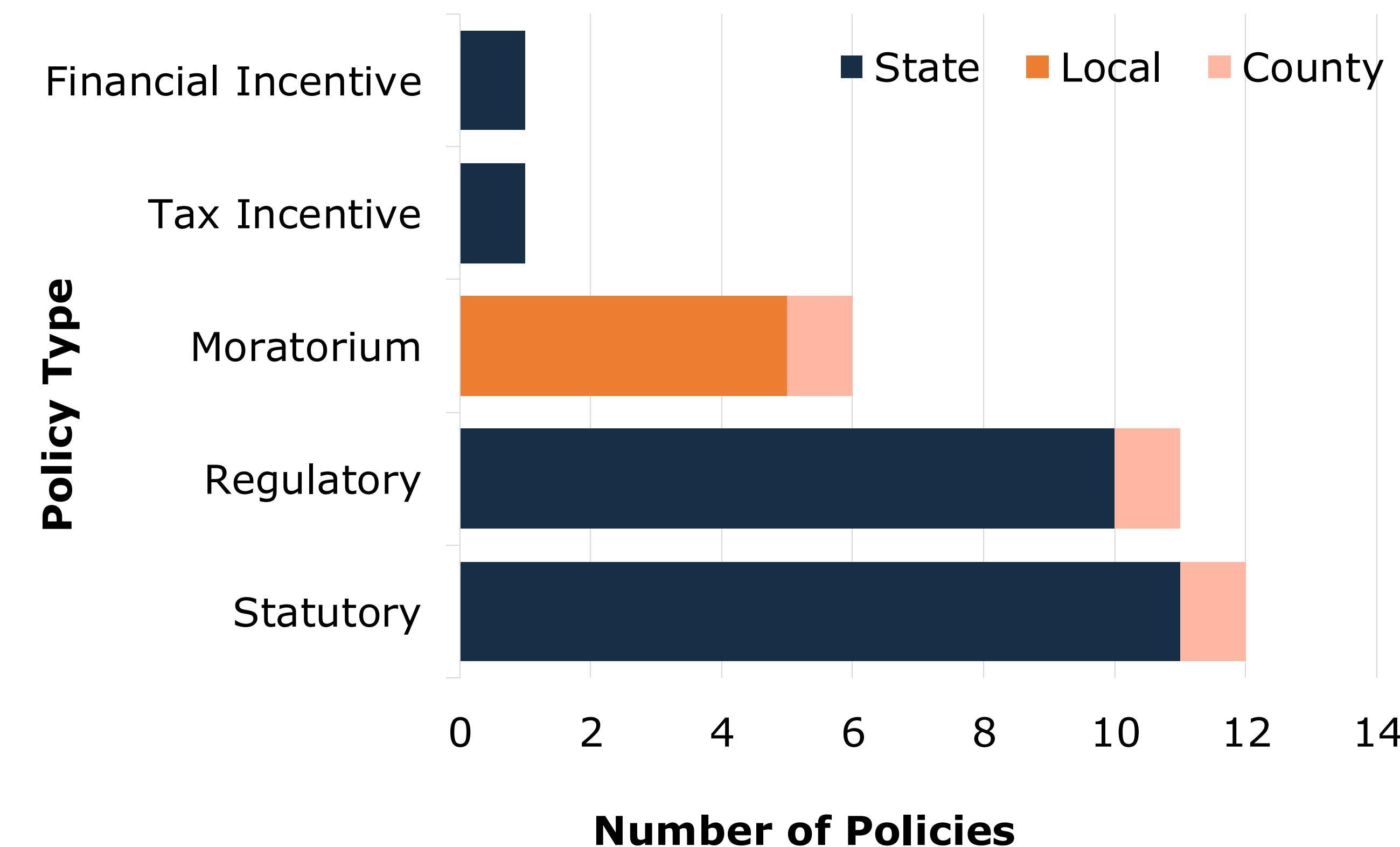
Market Analysis Findings (Ex: WA)

Battery storage can address a variety of **utility, state, and local needs**, including the following **key applications**:



Policy can drive, restrict, or otherwise affect how battery storage is developed and varies across states. **In the context of WA as a case study:**

WA Policies by Jurisdiction



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References

