

Battery and Storage Briefing

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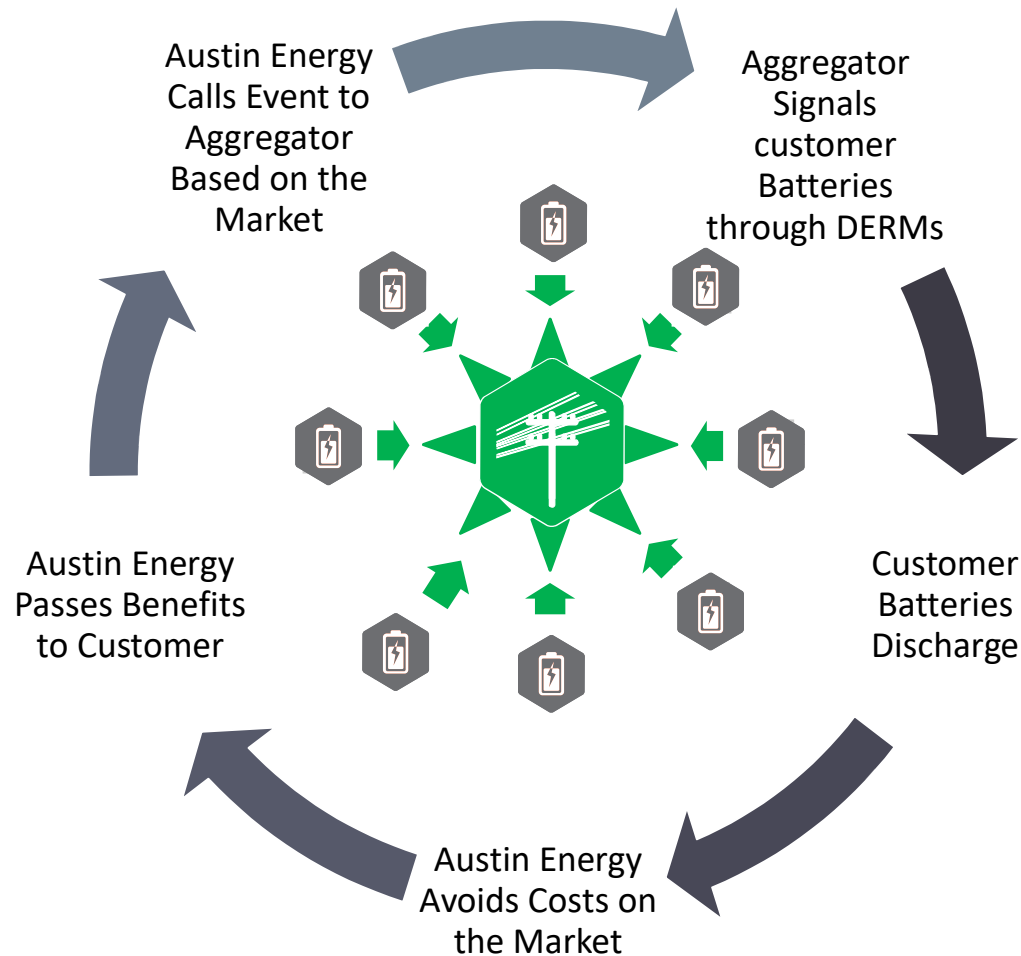


Resolution Items

- Explore a solar battery storage program
- Explore battery end-of-life recycling and disposal options
- Explore microgrids
- Pilot load-shaping technologies
- Convene a public stakeholder process

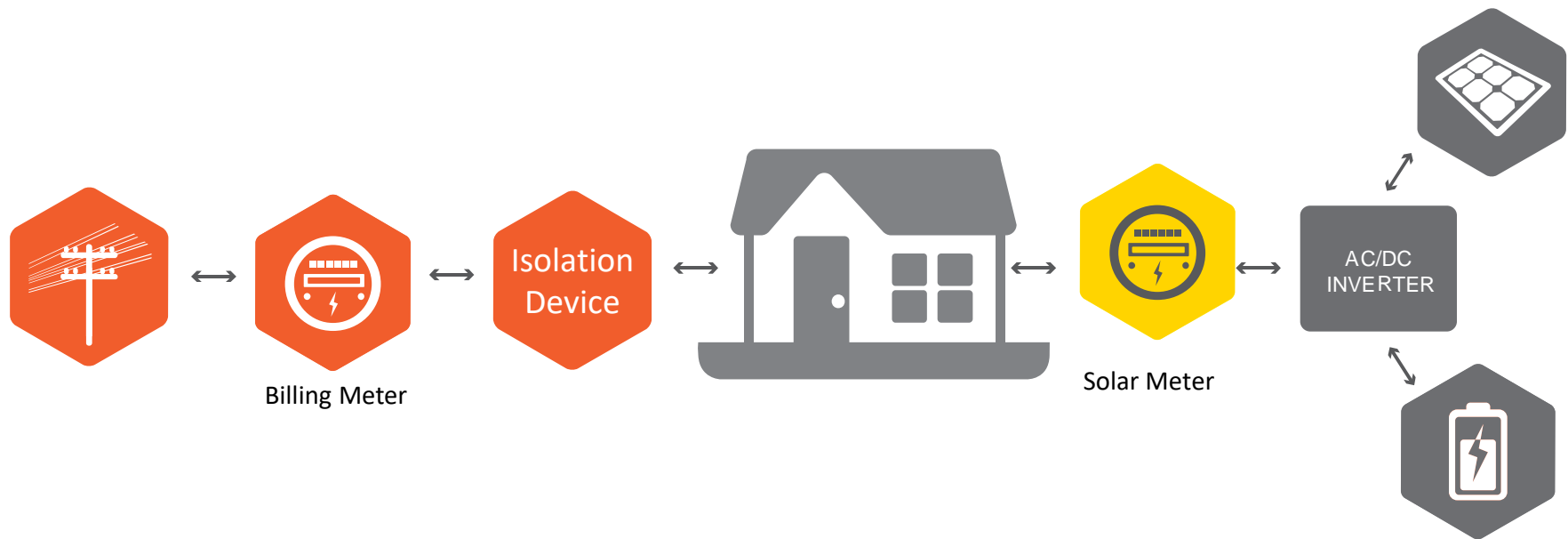


Aggregated Distributed Energy Resources



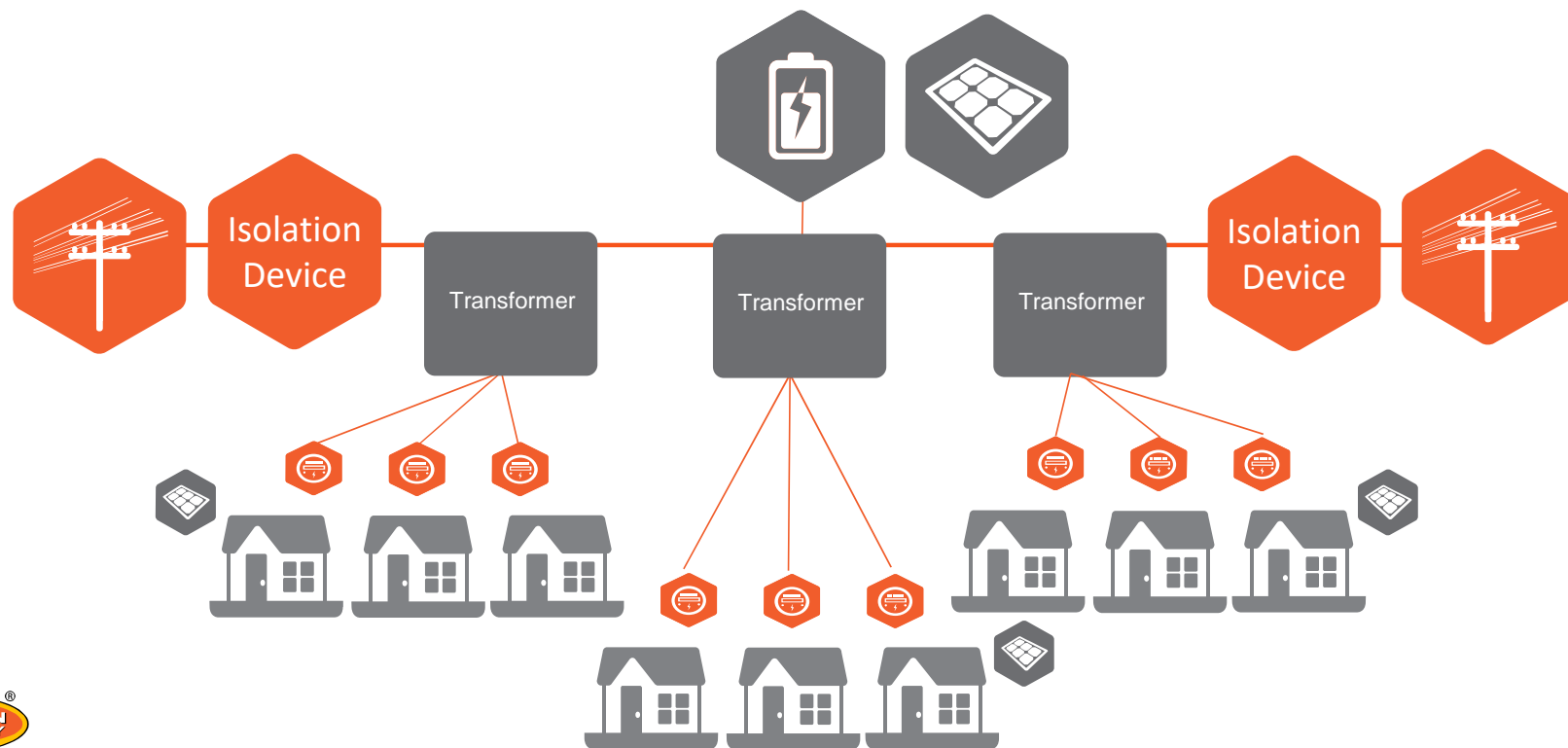
Microgrid Enablement

Behind the Meter Storage and Microgrid



Microgrid Enablement

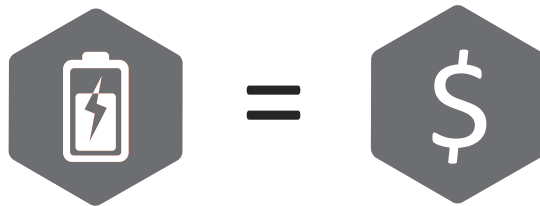
Front of the Meter Storage and Microgrid





Battery Incentives

- Austin Energy is considering the battery value proposition to the customer holistically
- Once an ongoing benefit approach is determined we will evaluate an upfront incentive
- Austin Energy is currently working on approaches that utilize utility-controlled batteries to provide resiliency benefits that flow to low-income customers.





Direction: Explore a Storage Rate Structure to Recognize Contributions to the Grid

- **Storage Benefit:** Residential storage has the potential to reduce customers' bills by using the electric grid more efficiently.
- **Storage Base Rate Design:** The residential storage rate should be based on capacity charges, in place of the current tiered energy charges. The customers will receive an appropriate signal to use their storage system to the benefit of both the customer and Austin Energy.
- **Challenges:** Austin Energy is investigating the ability of current residential AMI meters to develop demand readings.
- **Benefits of a Pilot Program:** A pilot program will allow Austin Energy to verify expected savings and identify challenges to large-scale implementation of the program.





Battery End-of-Life Options

- Rapid growth in marketplace for large-scale battery reuse and recycling – batteries retain significant value
- Working with Austin Resource Recovery (ARR) on ways to:
 - Increase customer awareness of manufacturer takeback programs and other third party battery reuse/recycling options
 - Improve large battery reuse/recycling options in COA hazardous waste disposal contracts





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