Policies targeting Behavioral Challenges involving Vehicle to Grid Integration



Lessons from Residential Demand Response

Gamification:

- 1. Stage the choice occasion: build awareness & anticipation,
- 2. Make rewards immediate and tangible,
- 3. Reward sustained incremental progress through status and streaks incentives,
- 4. Provide local social comparisons

Although effective, small rewards lost their power to sustain cooperative behavior over time. Automation is a superior strategy.



Lessons from Literature on Behavior

- 1. Behavioral challenges are greater than technology challenges now.
- 2. TOU EV rates work when drivers have discretion about when to charge,
- 3. EVSE are not yet priced optimally given their financial costs
- 4. Synchronizing supply of connected EVs with demand for grid services is great challenge.
- 5. Who will pay for the grid services? Existing DR programs have not been financially viable.

