



- Flexible demand consumption
- Store off-peak (cheaper) energy
- Avoid peak (costly) prices or sell back to the grid

$$\text{maximize } \sum_{Car=1}^N (\text{Net Revenue})$$

(Profit from Stored Energy)

- (Cost to Charge EV)
- (Installation Cost)
- (Degradation Cost)

“Is joining the microgrid a rational decision for an EV owner?”

EV Capacity,
Driving Pattern



Break-even,
Total Profit