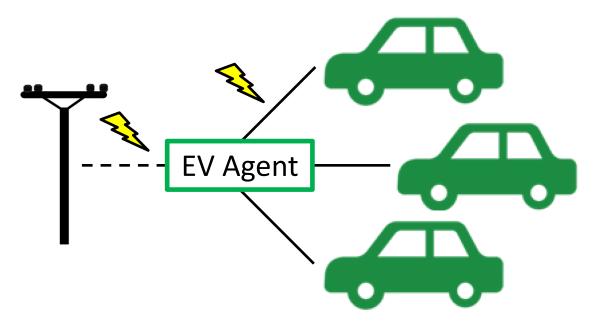


Microgrid with EVs

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

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

(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

MATLAB

Break-even,
Total Profit