

# Smart Charging in the Real World

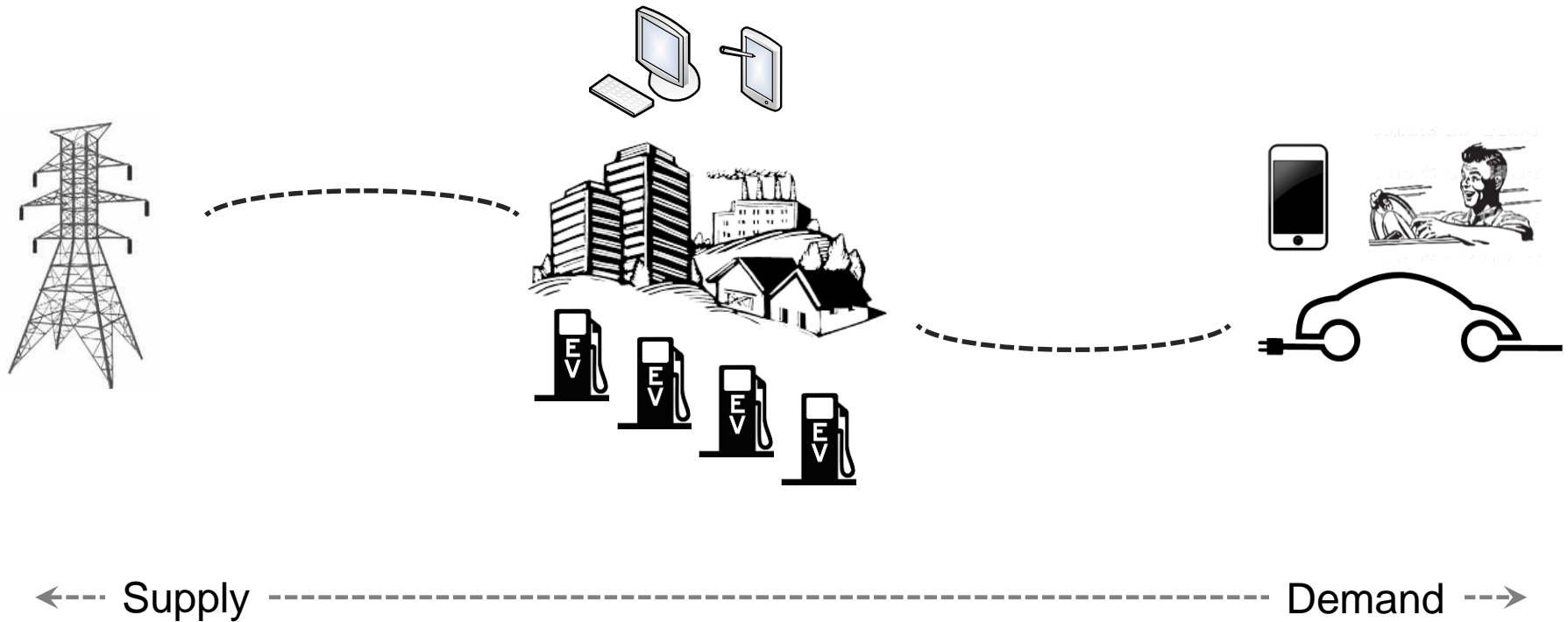
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# Agenda

- The EV Value Chain
- What is Smart Charging?
- Real World Examples of Smart Charging
- The Future of Smart Charging

# The EV Value Chain



# Data Empowers Smart Charging

- Supply
- Price/cost
- Location
- Station
- Driver
- Vehicle



# Smart Charging Applications Depend on Customer Segment



Workplace



Transit



Utility



Residential



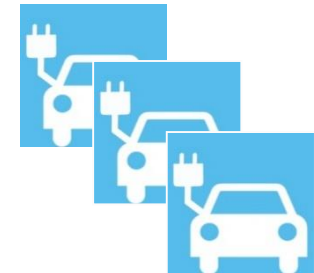
Hospitality



Destination



Public



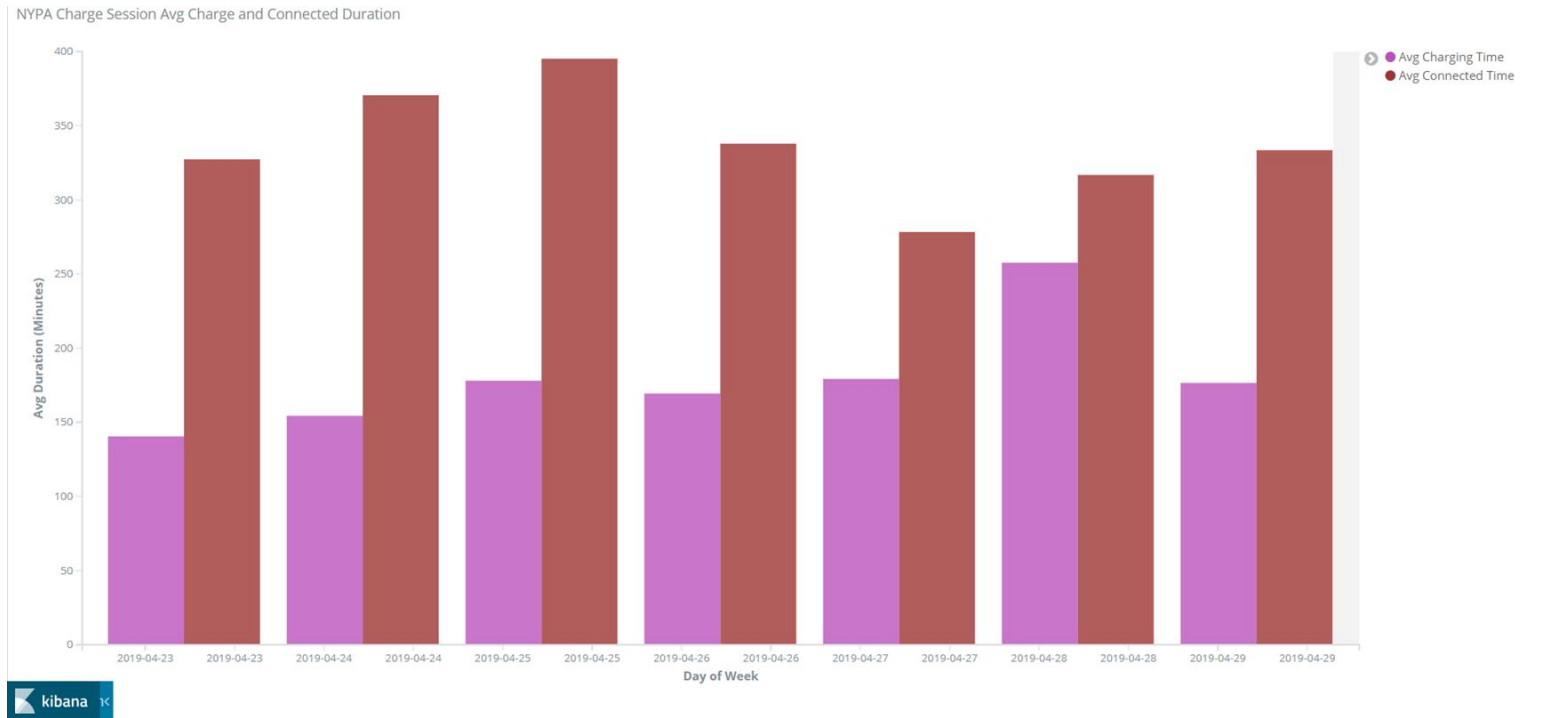
Fleet

# Smart Charging Considerations

- Site host goals
- Driver need / vehicle
- Energy prices/costs
- Load limits at a location
- Peak loads for utility nodes
- Station location & power
- Local DERs

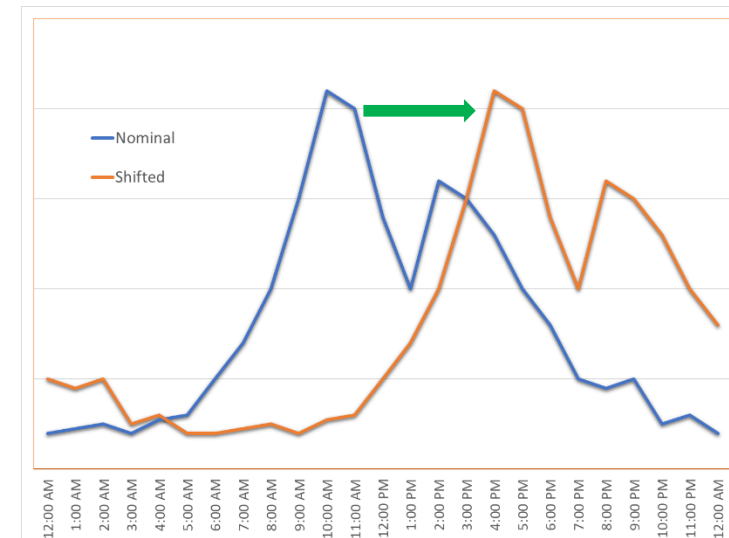
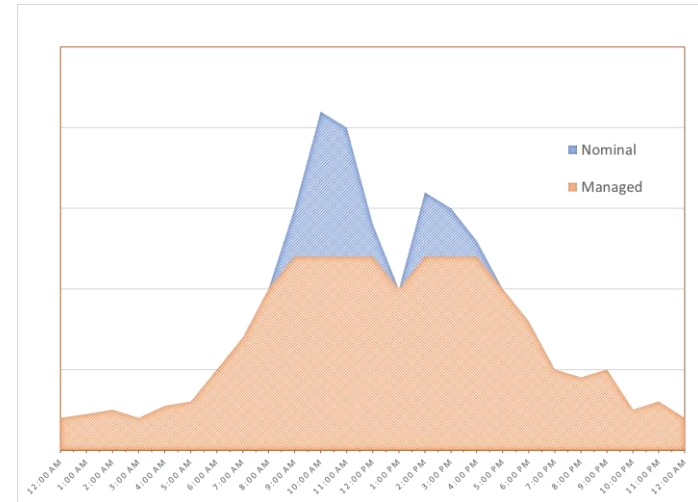


# Average Charge and Connected Duration



# SCE Charge Ready Program

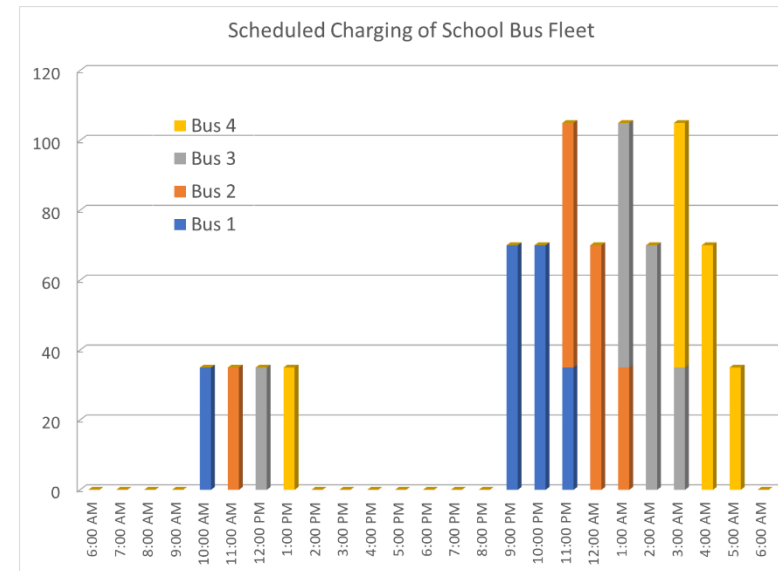
- Workplace application
- Pre-planned DR events
- Load shed / load shift
- EV Connect participation
  - 400+ ports managed
  - OpenADR 2.0b
  - Dynamic shed
  - Opt in/out enabled



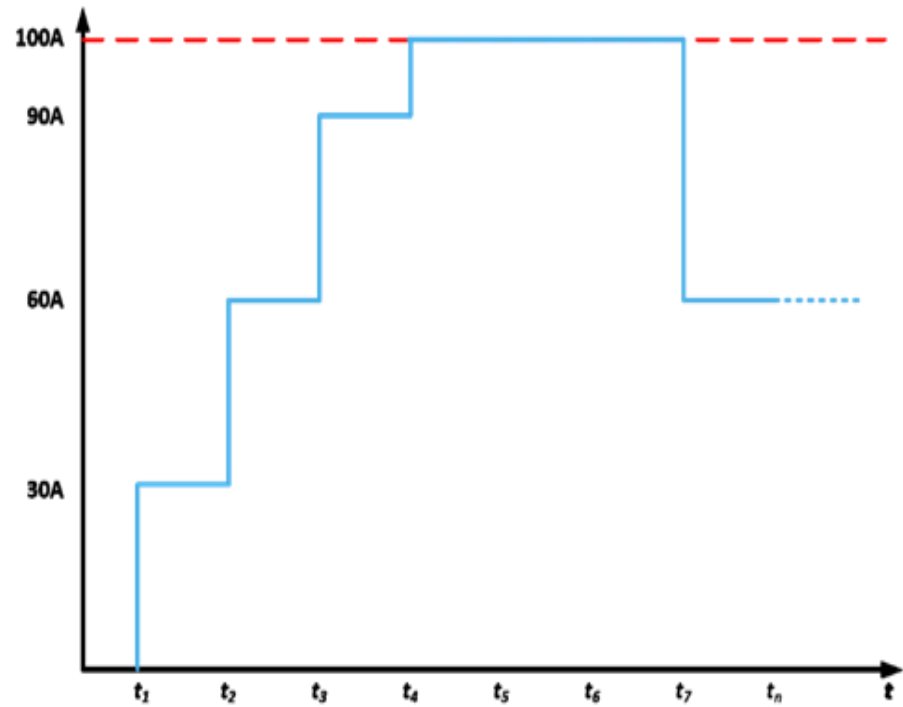
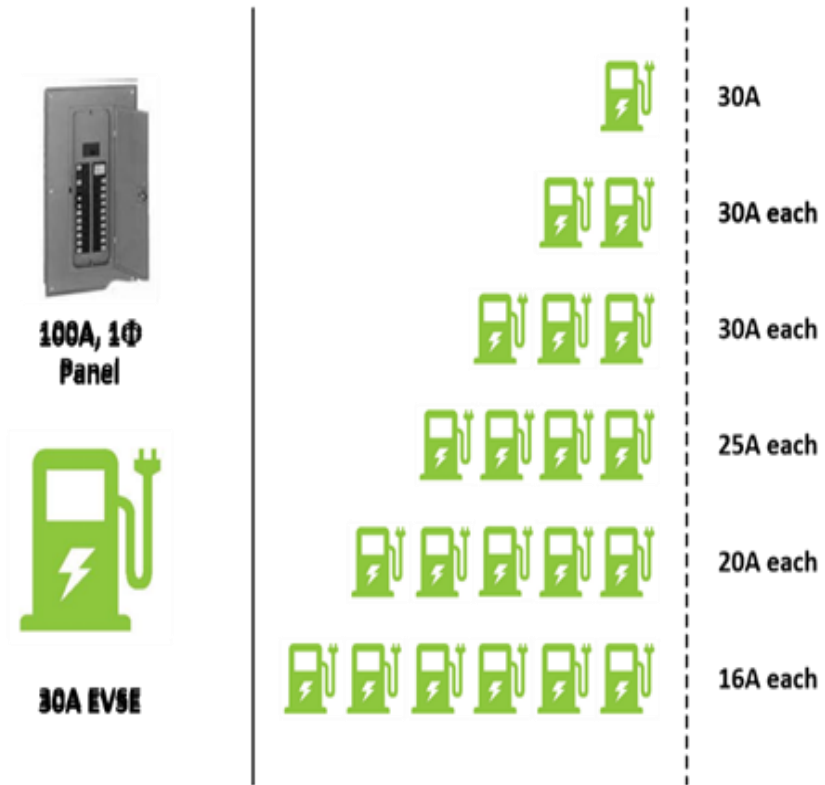


# Elk Grove Unified School District

- Fleet application
  - 8 school buses
  - Peak load management
  - Peak load timing
- EV Connect participation
  - 8 stations managed
  - Scheduled charging

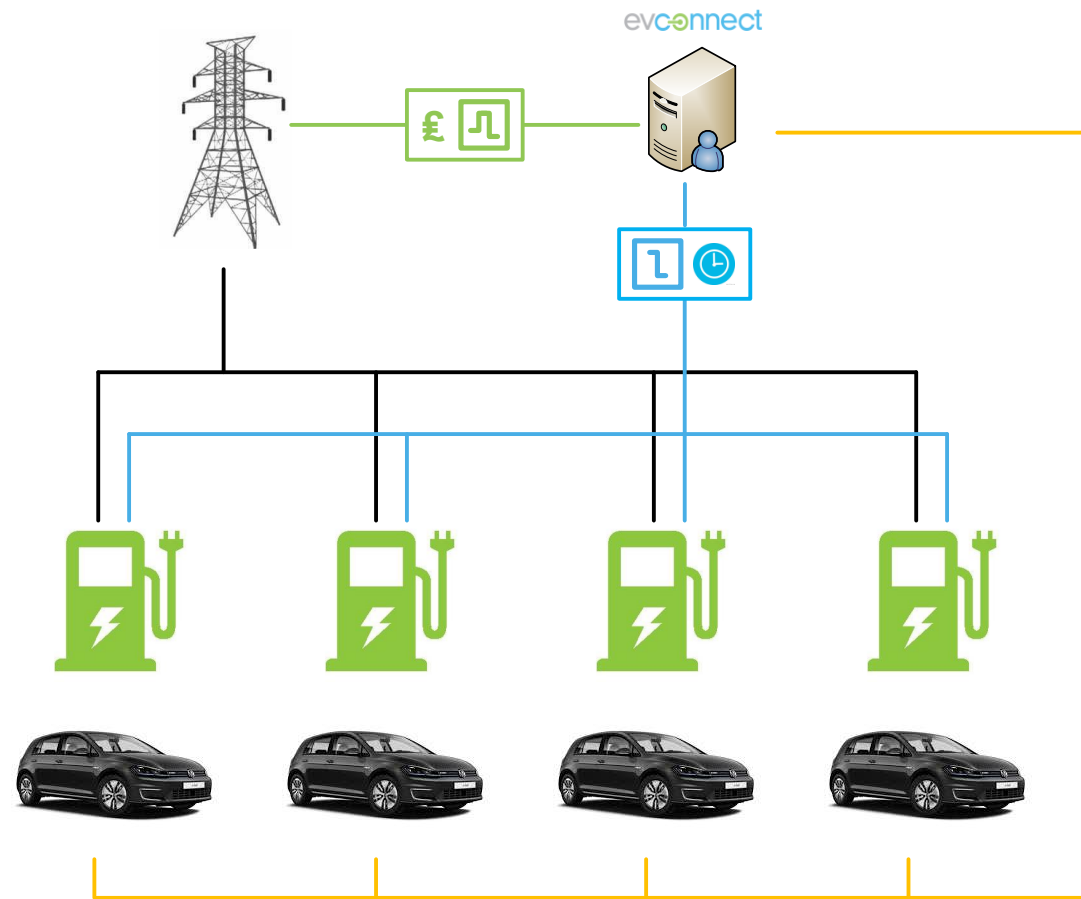


# Power Sharing – MUD Example



# Utility Managed Charging

- Residential application
  - 400+ participants
  - 400+ NW'd EVSE
  - BEV & PHEV
  - Vehicle integration
  - “Supplier managed”
  - “Driver managed”
- EV Connect participation
  - Station management
  - Energy price integration
  - Mobile app
  - Charge scheduling

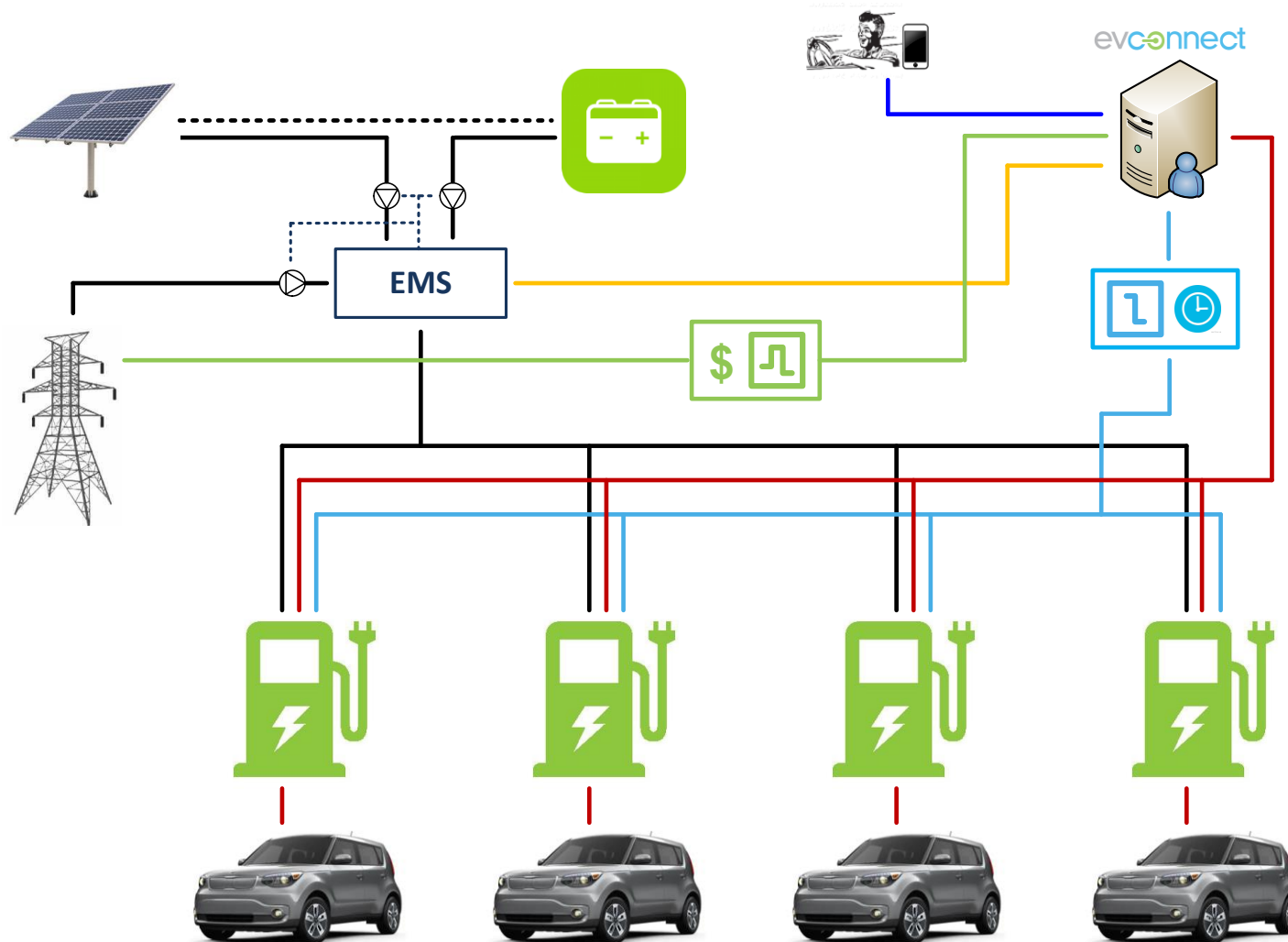


# Keys to Success

- Clear use case
- Holistic view point
- Stakeholder inclusion
- Driver engagement
- Management Platform
  - Support implementation
  - Collect data
  - Provide feedback



# The Future of Smart Charging



# Summary

- Smart charging is real – today
- Successful solutions require:
  - Good scope definition
  - Consideration of the applicable ecosystem
  - Stakeholder buy-in & support
- Platform to unite disparate systems

## Questions & follow-up:

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