

ELECTRIFICATION TIMELINE

PHASE 1 PRE-PLANNING (1-3 MONTHS) Organization Buy-in and Energy Planning

- Start with your “why” (saving money, reducing emissions, being a technical leader)
- Understand the goals and fears of people in all levels of your organization and get buy-in from all levels
- Perform a risk tolerance assessment
- Determine scope
 - Determine how many EVs you will need
 - Estimate energy needed to charge EVs/project energy use by hour and day
 - Identify the ideal ratio of chargers to EVs
- Determine duty cycles: identify vehicle’s duty cycles and operating requirements (What is the engine doing as it is running?)
 - Tow or carry loads
 - Idle times
 - Miles driven per day
- Complete a grid evaluation/impact: Determine how many kWh you will be pulling from the grid
- Determine facility changes needed to accommodate new power usage
- Undertake energy modeling with your utility as early as possible (avoid drawing a large amount of unplanned power)
- Involve legal for contract and lease obligations and insurance requirements, human resources for training and union considerations and IT for network requirements
- Create key electrification KPIs to track progress

PHASE 2 PLANNING (2-3 MONTHS) Timeline and Budget

- Find available funding and incentives
- Determine budget (include cost escalations/total cost of ownership or total cost of operation)
- Set a timeline for implementation
- Select a location (consider lighting, weather protection, ADA access)
- Determine if you will share your fleet charging with other users
- Select hardware (what vehicles and chargers will you buy)

PHASE 3 IMPLEMENTATION (2-9 MONTHS)

- Install hardware and software/complete infrastructure site build
- Install charging equipment

PHASE 4 RESULTS (3 MONTHS)

- Train drivers and fleet staff on electric equipment or trucks
- Evaluate performance and use
- Apply for incentives, such as California LCFS, Oregon CFP, or Washington State CFS

Disclaimer: This electrification timeline is for general informational purposes only and should not be considered expert advice.