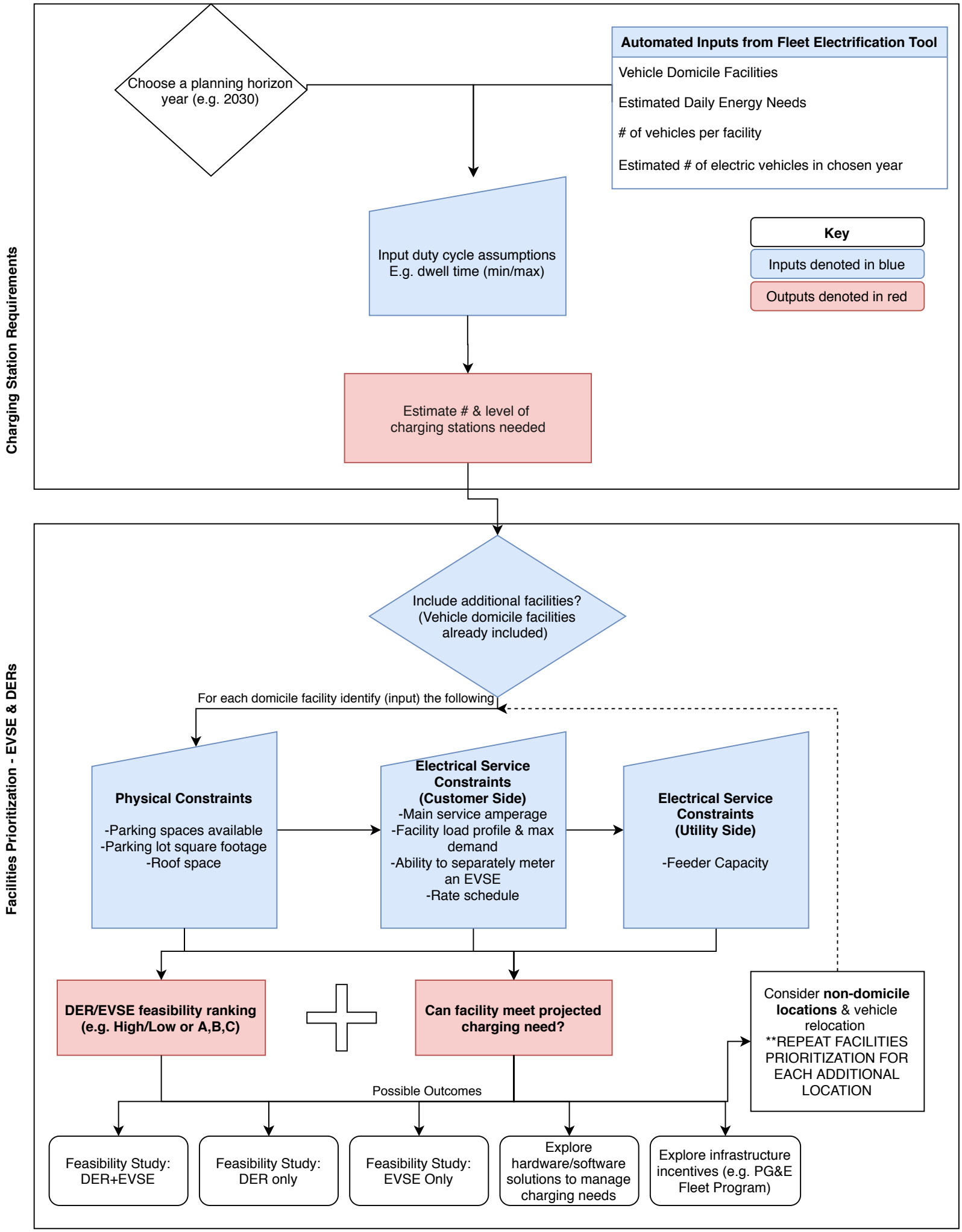
Charging Station Requirements
Choose a planning horizon year (e.g. 2030)
Automated Inputs from Fleet Electrification Tool
Vehicle Domicile Facilities
Estimated Daily Energy Needs
# of vehicles per facility
Estimated # of electric vehicles in chosen year
Key
Inputs denoted in blue
Outputs denoted in red
Input duty cycle assumptions E.g. dwell time (min/max)
Estimate # & level of charging stations needed
Facilities Prioritization - EVSE & DERs
Include additional facilities? (Vehicle domicile facilities already included)
For each domicile facility identify (input) the following
Physical Constraints
-Parking spaces available
-Parking lot square footage
-Roof space
Electrical Service Constraints (Customer Side)
-Main service amperage
-Facility load profile & max demand
-Ability to separately meter an EVSE
-Rate schedule
Electrical Service Constraints (Utility Side)
-Feeder Capacity
DER/EVSE feasibility ranking (e.g. High/Low or A,B,C)
Can facility meet projected charging need?
Consider non-domicile locations & vehicle relocation
**REPEAT FACILITIES PRIORITIZATION FOR EACH ADDITIONAL LOCATION
Possible Outcomes
Feasibility Study: DER+EVSE
Feasibility Study: DER only
Feasibility Study: EVSE Only
Explore hardware/software solutions to manage charging needs
Explore infrastructure incentives (e.g. PG&E Fleet Program)