

**Problem:** as electric vehicle adoption in the US is beginning to accelerate, existing infrastructure and utility development models are unprepared to efficiently support adoption

CURRENT GRID IS BUILT  
FOR THIS DEMAND

AND NOT FOR THIS DEMAND

OPTIONS



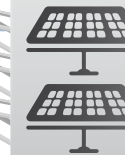
A fleet facility of 200-300 electric trucks will require up to **4x the electricity needed** as the same size of facility for diesel trucks



Total utility-built transmission and distribution investments per electric vehicle through 2030 are estimated to be anywhere between **\$1,700 and \$5,800**



While new energy infrastructure will need to be developed to meet this demand, the upfront and ongoing costs of building new or "bigger" distribution to sites far outweighs the cost of building energy supply locally



Local electricity supply can lower distribution upgrade costs, utility demand charges, and utility supply charges, but it is space intensive (requiring 50+ acre properties)



An abrupt increase in electricity use at locations where concentrated vehicle charging will occur will stress local electrical grid infrastructure.



Currently no charging station network exist for commercial vehicles