



SIEMENS

**Consulting and Front-End
Engineering and Design (FEED)
Studies for Electric Fleets**

Infrastructure Planning for eMobility



Siemens eMobility Consulting Services

Siemens Canada is wholly invested in providing our customers with the best experience in their electrification journey by developing customized plans and services to cater to their individual needs. This is possible thanks to our eMobility team of specialists who are able to provide the best-practices and technology know-how to reach your business goals. Our team consists of management consultants as well as grid planning experts with a clear focus on profitability and feasibility. With our consultancy for eMobility integration, you can receive any or all of the following:

- A detailed EV adoption forecast and a holistic strategy concept with an economically efficient, flexible and transparent roadmap
- An understanding of business model alternatives open to charging providers and their partners
- An assessment of policy alternatives and incentives to further drive EV adoption
- A detailed assessment of the impact of electric vehicles on power grids
- Optimized grid concepts which allow for a higher grid utilization and an improved grid performance
- A Front-End Engineering & Design (FEED) Study, as described on the following pages

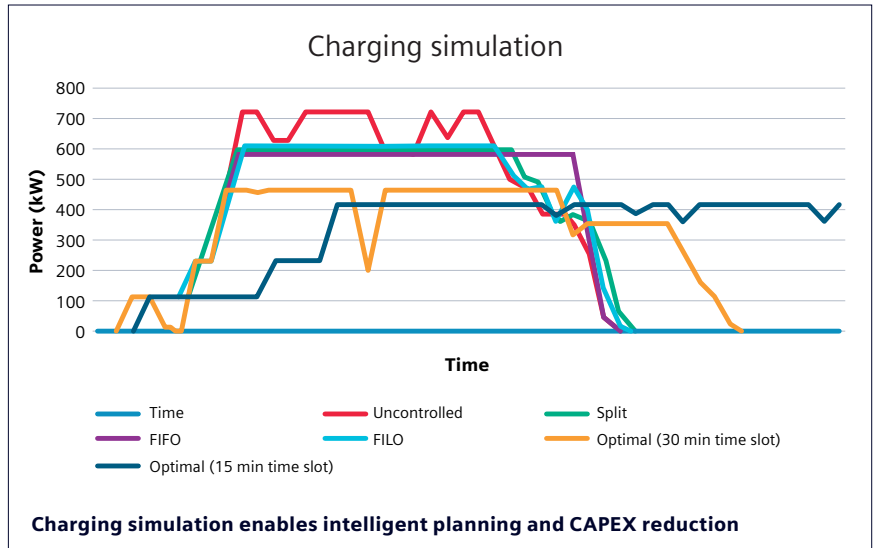
**We strive to be the
trusted partner of
our customers.**

Two Phases

Phase 1: Block Study and Charging Simulation

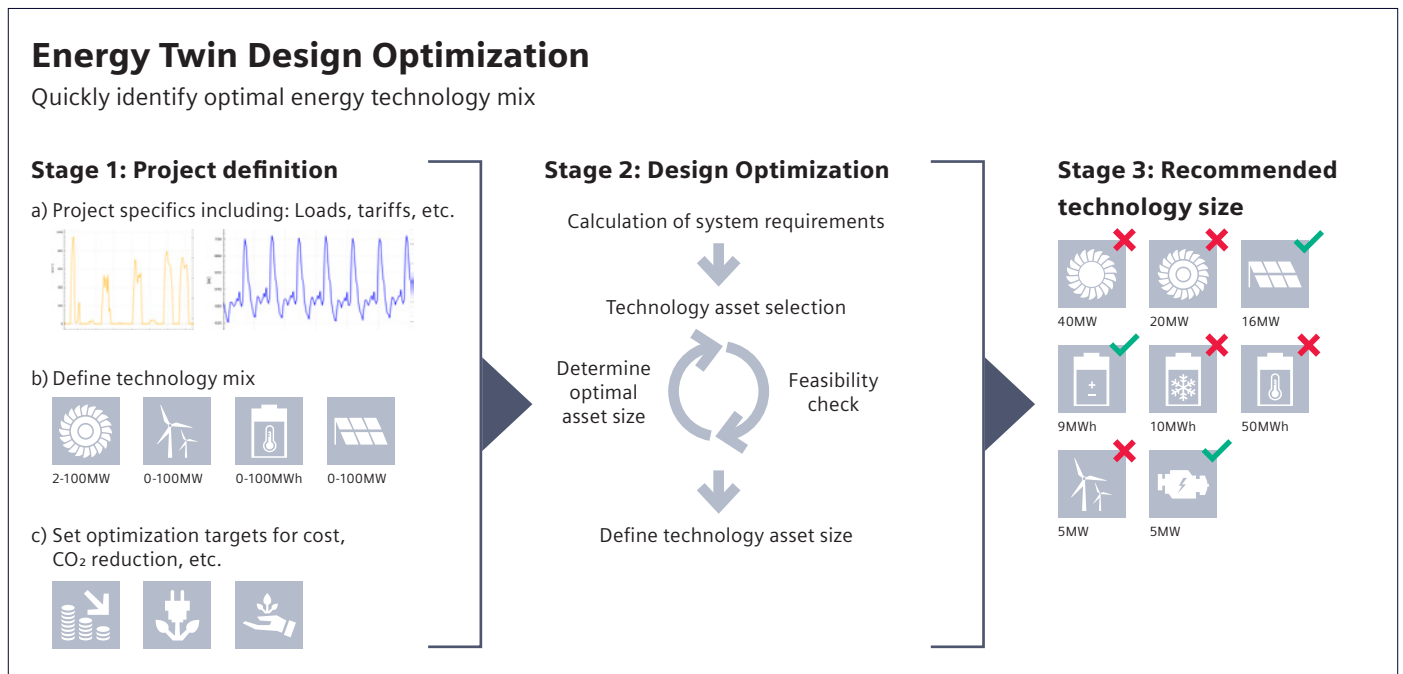
The block study and charging simulation provides visibility to the energy requirements of all electric vehicles in the depot, for a relatively low investment. It benefits the client by enabling intelligent planning for pilot projects, confirms energy supply requirements, and establishes an early financial estimate for implementation.

The outputs of Phase 1 are critical to a successful Phase 2 consultation.



Phase 2: Distributed Energy Resource Optimization, Preliminary Engineered Drawings, and Final Report

Phase 2 enables fleet operators to determine the right energy asset mix for each electrification phase, with the goal of optimizing CAPEX and OPEX for the client, as well as achieving energy supply reliability and decarbonization goals for the site. Siemens utilizes an innovative techno-economic simulation software tool to accomplish this optimization, by creating detailed models of hybrid energy generation systems. Outputs from this phase can include preliminary drawings, equipment specifications, and, a final report.



We see eMobility as a whole from consulting and planning to execution and installation, supporting your electrification journey.

Let's transform the everyday, together.



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