

Your decision-making solution to plan the electrification of your fleet





TESS, YOUR ALL-IN-ONE SOLUTION

Reduce your peak power demand by 60% and optimize your energy consumption.

TESS models and simulates ultrarealistic operating scenarios. More specifically, the application allows to take into account the operational constraints of a depot in order to determine the optimal operating strategy.

The vehicles and electrical equipment displayed in the simulator are based on the latest technologies available on the market and validated by real-life data collected in the field. TESS supports the user in the optimization of scenarios.

Users can dynamically visualize the operations they are simulating, access error and warning logs, and examine detailed simulation results.

The application can be made available directly to clients who wish to run the simulations themselves. In this case, in addition to the license, we offer training, support and guidance to help make the most of TESS and find the best electrification strategy.





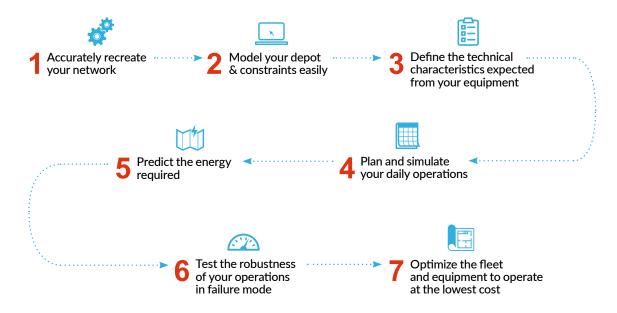


PUTTING OPERATIONS AT THE FOREFRONT OF ELECTRIC TRANSITION

As key players of low-carbon mobility, transport operators are being urged to improve their infrastructures and fleets, and to build electromobility solutions, in order to reduce their environmental footprint. As a long-standing planning partner, SYSTRA supports you to drive your electromobility roadmap.

SYSTRA developed a unique interactive, digital tool called TESS (Transit & Electromobility Smart Simulator) to help you meet the challenges of energy transition.

OUR APPROACH



SYSTRA ADDED VALUE

SYSTRA's 65 years of mobility experience provides a system-wide vision supporting mobility performance

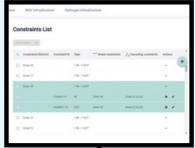
Our interdisciplinary expertise includes: transportation planning, electrical engineering, operation and maintenance engineering, battery technologies and charging device technologies.

SYSTRA's proven TESS software brings reliable accuracy to modelling with multiple variables, achieving optimized design.

AS A LEVER FOR SUSTAINABLE MOBILITY, TESS PAVES THE WAY FOR ZERO EMISSIONS

All over the world, SYSTRA helps its clients build tailor-made solutions tackling the mobility challenges they are exposed to every day.







OBJECT LIBRARY

Object libraries allow access and selection of vehicles and electrical equipment. Users can also create and save their own objects.

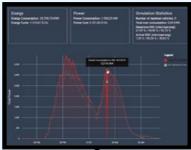
VEHICLE-CHARGER ASSOCIATION

The user can digitally configure his depot by recreating the configuration of parking spaces, the number of chargers and their associations with vehicles.

OPERATIONAL CONSTRAINTS

The user can specify the rules for positioning, movement and selection of vehicles in order to simulate the operation as it will actually be performed in the operational phase.







DYNAMIC SIMULATION

All simulations can be viewed in a dynamic way in order to validate the correct operation and help the user identify potential optimizations. The user can play, stop, slow down and speed up the animation.

DETAILED RESULTS

The application provides a series of visual KPIs and warnings to guide the user in defining the best functional electrification strategy for their needs.

USER SUPPORT

TESS offers a series of analyses and various indicators to guide the user to the optimal scenario.
Simulation results are fully downloadable in .csv format for more complex analyses.

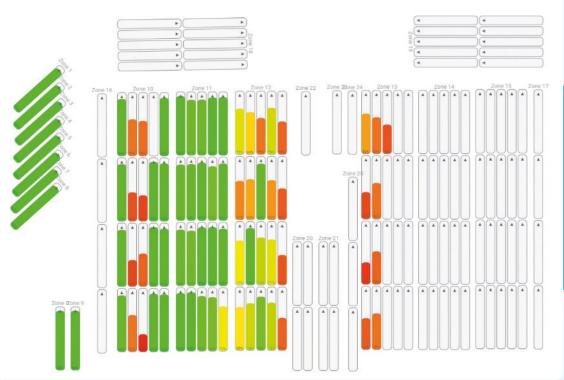
















102 NUMBER OF BUSES



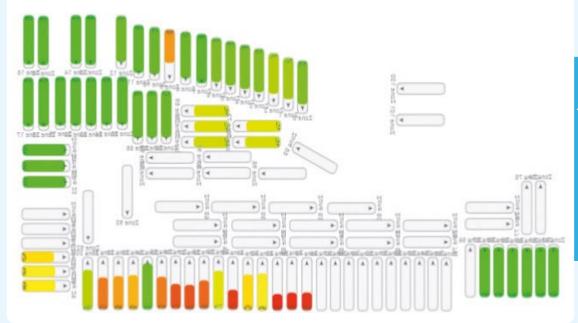
-28 % PEAK POWER



-67 %
CHARGING
INFRASTRUCTURE



€20-25MDEPOT CONVERSION PROJECT



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