

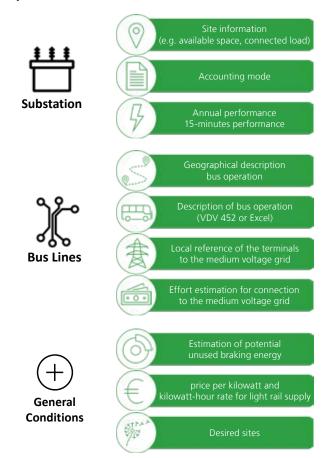
buses, using the opportunity charging concept at terminal stations.«

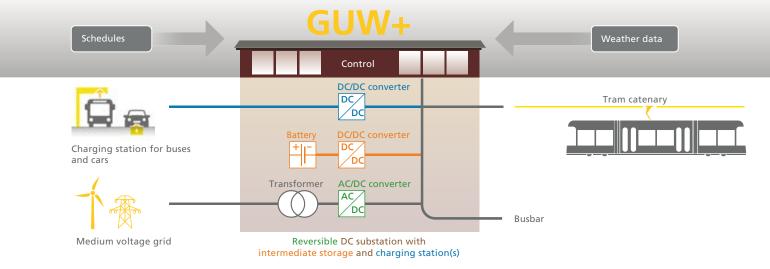
> Dr. Sven Klausner, Fraunhofer IVI

The innovative GUW+ energy supply concept uses light rail substations in parallel to bus charging at terminal stations. Through the second use of bus batteries as stationary energy storage, even more positive economic effects can be achieved.

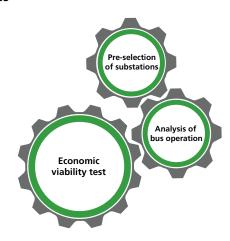
Through the substation localisation, the possibilty of expanding substations that are intended for modernization can be examined and compared to the conventional renovation of substations and the separate installation of charging stations.

Input Data





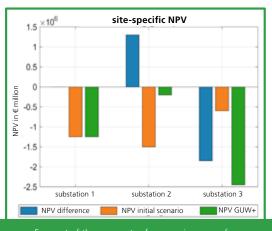
Process



- Pre-selection of substations: Substations are excluded if, among other things, their power reserve is too low, if they are not to be modernized soon, and if they do not have local connection to a bus terminal.
- Analysis of bus operation: The necessary charging infrastructure is determined at the terminal stations of respective bus routes and the energy and power requirements are calculated.
- Economic viability test: Costs are determined and savings and revenues are compared with the reference scenario.

Results





Forecast of the prospects of economic success for the selected sites and examination of investment security



Contact

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Supported by:



Coordinated by:



Funding agency



