

E-mobility – intelligent charging of the future

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The electricity grids are facing major challenges due to the integration of e-mobility. In order to charge many cars at the same time, the grid must provide additional electricity. Smart charging stations can help to relieve the grid of some of the load.

- In the multifunctional garage “Seehub”, ASCR is researching **an intelligent charging and control infrastructure** for optimal implementation of charging processes, taking into account any grid restrictions (technical and economic). It knows at all times how much renewable electricity is being generated on the roof and how busy the power grid is.
- Accordingly, the electric cars’ charging rates can be intelligently controlled. In addition, a **battery storage system** will be used to smooth out the load peaks during charging.

**Siemens, Wiener Netze,
Wien Energie**

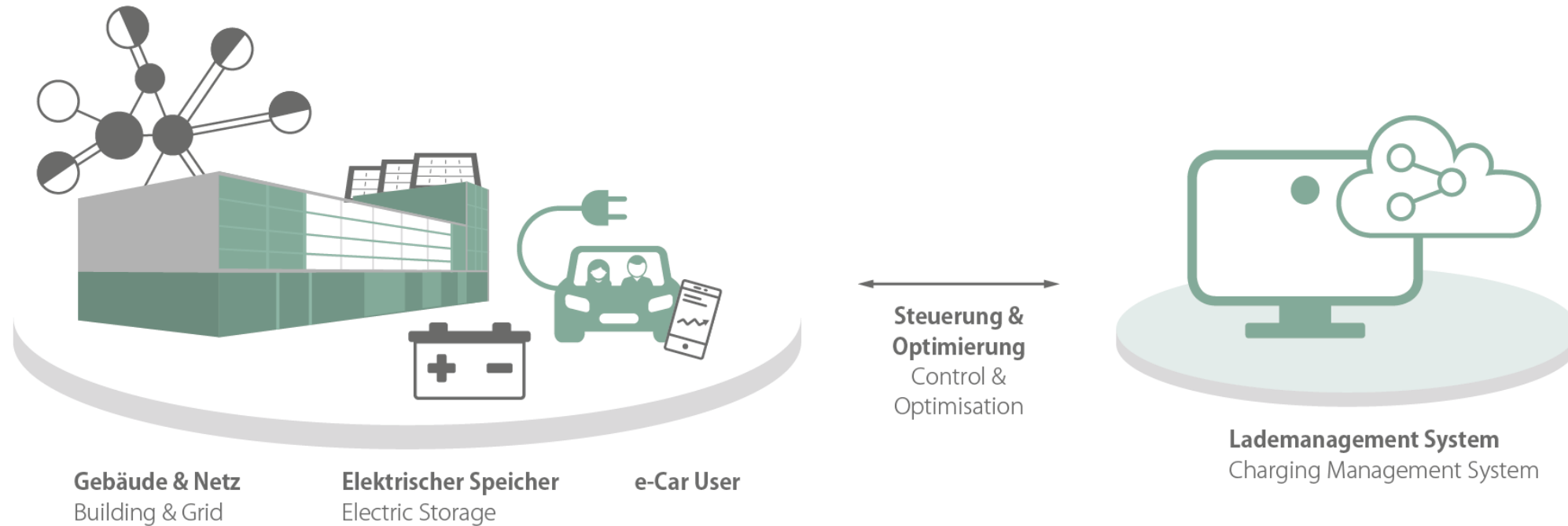
Budget: 1.4 million Euro

With an investment and
operating budget closer to 2
million EUR

Testbeds: SeeHub

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The benefits:

- Maximisation of charging power per customer, taking into account high power peaks
- Less stress on the power grid
- Integration of as many charging stations as possible into the existing grid and/or with as little grid expansion as possible