

barista

dynamic energy control

Optimized power consumption

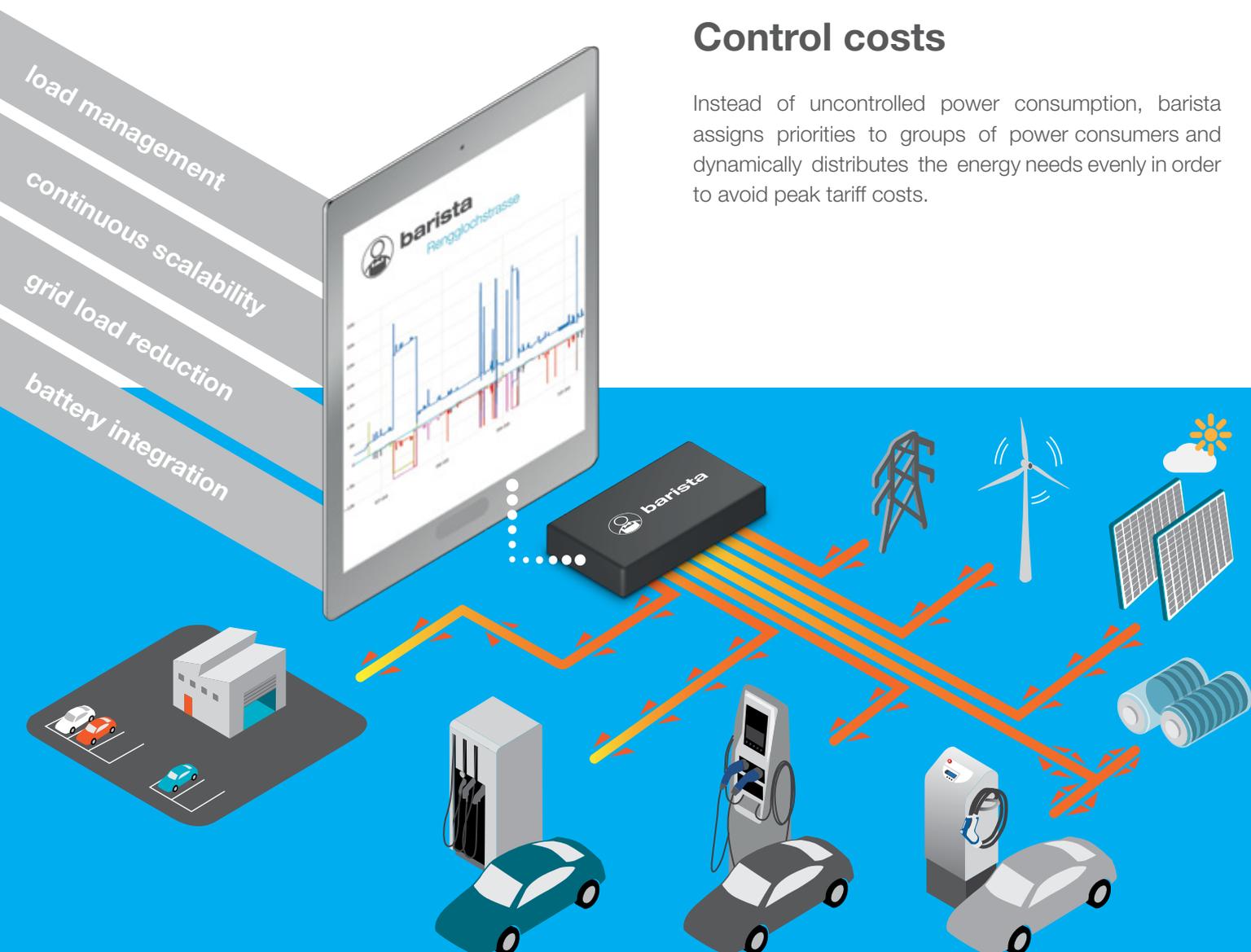
barista is a software solution, which allows intelligent and dynamic control of the local energy demand. By matching the current power needs to the actual grid supply capacity and regulating local consumers in real time, it becomes possible to i.e. fastcharge an EV, while also running an industrial park in full swing without generating expensive peak loads.

Distribute loads intelligently

Local energy consumers are bundled in groups depending on their level of control, monitored and matched against available power sources as grid supply, solar systems, and batteries (stationary or temporarily connected EV's). The overall available power is then dynamically distributed within pre-defined limits. By regulating non-primary energy users, delaying consumption or withdrawing power from storage, critical peaks are reduced significantly.

Control costs

Instead of uncontrolled power consumption, barista assigns priorities to groups of power consumers and dynamically distributes the energy needs evenly in order to avoid peak tariff costs.





Easy installation, seamless expansion

With barista the connected consumers do not need to be controlled individually, but are monitored via smart energy meters. The software can be delivered together with an EVTEC „&charge“ charging station or a battery pack, and can also be implemented independently. Furthermore, it is easily upgradeable by connecting more meters and consumers. barista is future oriented/ future safe and grows together with the company.

Through prioritization available energy resources can be used more effectively, thus allowing to integrate new power consumers without any obstacles.



- dynamic power distribution in real time
- easy adjustability to new power consumers
- cost reduction by peak shaving
- integration of local and mobile batteries

Demand management and sustainability of supply

barista differentiates between individual demand priorities and allocates the locally available energy potential dynamically and seamlessly. There are four kinds of consumers, which can be controlled and integrated:



static consumers - are not regulatable
(shop floor lighting, computers, elevators)



yieldable consumers - can be switched on/off
(AC-chargers, boiler, mood lighting)



controllable consumers - power consumption is adjustable
(heat pumps, conveyor belts, air conditioning systems, EV-DC-chargers)



bi-directional consumers - can act as a supply source or power sink
(batteries cells, bi-directional EV-chargers)

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