

An aerial night view of a city, likely Stockholm, showing a river, bridges, and illuminated buildings.

Accessible electricity made easy

EpSpot makes it easy for any site operator to make electricity accessible to anyone, for instance to allow vehicle charging. The solution works for both new install and retrofit and works with any outlet type.

Facility based operations

EpSpot helps facility-based operations with

- Limitations in top-power and reduction of electricity costs.
- Safe infrastructure without electrical overload in cabling.
- Distribution of available power between users for optimum economy.
- Manage Gradual evolution of electric infrastructure.
- Ability to change business models and rules as needs changes.
- Compliance with benefit in kind taxation in workplaces.
- Access Control
- Different combinations of power need, for instance engine heating and car charging.

New possibility

EpSpot HEXA-sense® enables access to electricity regardless of outlet type and enables access to electricity in a managed fashion. Business model flexibility combined with electric load control and access control in mixed outlet services at a new price level.

The session-based meters can be installed in a plethora of different casings, including placement directly in building distribution boards.

Om EpSpot

EpSpot aims to facilitate transformation from unsustainable to sustainable energy systems by enabling smart electricity access solutions simplifying re-sale as well as demand side management. We are focused on big site operators and have tier 1 customers such as Scania, Vasakronan AB, DeLaval, AlfaLaval etc. Our technology is patented.

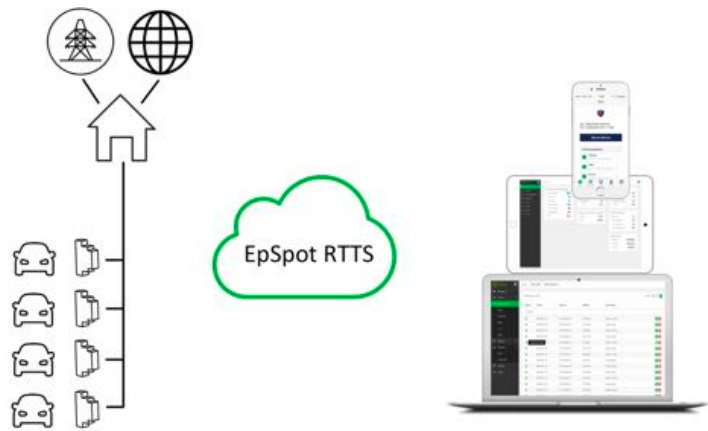
EpSpot sets a new standard for what is possible.

How it works

EpSpot session-based meters is connected to the outlet from which electricity should become available.

The modules connect to Internet access through Ethernet over Powerline technology (IEEE 1901). The modules are controlled from a cloud service and can only handle electrical and outlet related parameters.

The outlets connect to the EpSpot RTTS service that is managing sessions in real time. User uses apps to controls their sessions. Sessions can also be controlled from other systems or applications through rest based API:s



Powerful functionality

EpSpot RTTS cloud service is globally scalable and offers high degree of IT security including bidirectional certificate validation.

RTTS contains extensive tools for electricity load control that can be combined. Any session is subjected to policy enforcement, making sure they adhere to approved power envelopes, getting terminated if not. Load shredding and queue systems is automatically controlling demand in relation to supply. Mode3 capable outlets can be seamlessly integrated and allow for dynamically adaptations.

Business models can be configured depending on need and be different for different combinations of outlets and users. User can pay via credit card or via external debiting system. The app becomes the user's remote control, including getting push notifications at events.

Navigation services helps user find free outlets , facility owner gets tools to analyze outlet occupation and electrical load.



EpSpot session-based energy meter

Session based electric energy meters from EpSpot contains individually calibrated high accuracy metrology, switching functionality, LAN connectivity and outlet specific functionality. The modules are durable, overvoltage category III rated and is remote upgradable.

The modules are available in version ranging from 16A single phase for ordinary outlets to 32A three phase with Mode3 support for car chargers. The mode3 models has inbuilt support for actuators, LED strips and has backup to release cables if subjected to power failure. Modules for ordinary outlets can be installed up to 50m away from outlet and detects presence of plugs through impedance measurement.

Low installation an operational cost is achieved as only electric cabling is needed, and any Internet connection can be used with no need for web sockets, fixed IPs, port openings or VPN tunnels.



Flexible installation

EpSpot modules is used in wall boxes, charging pedestals, outdoor enclosures in camping grounds & marinas and fitted directly in building distribution boards in combination with fixed outlets. The system is easily installed by electricians.