

Elonroad smart power strip. Power on the fly

Conductive power transfer provides robust high energy transfer, low cost and simple installation

Software control provides built in billing system, load balancing, access control and safety features

Technology is well tested towards wear, foreign object interference and all-weather conditions

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Electric road system

Elonroad is located in Lund, a university town and a center for high-tech industry in Sweden, home to innovations such as mobile phones, Bluetooth and web cameras. We work closely with Lund University, one of Scandinavia's largest institutions for research and education and a global top100 University.



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Public transport Electrification

For use in urban environments our ground mounted smart power strip is available both as mounted on top of the road and recessed into the ground making it level with the road. The first installation after winning a public tender is currently ongoing in Sweden and includes both types of power strip for city bus charging.

Elonroad is available both as bus stop charging and as electric road where charging is seamlessly provided also while the bus is in motion. The control software and smart architecture of the power strip has integrated access control so that power can only be utilized by vehicles with access permission through a wireless system.

Elonroad only powers the strip section directly under the vehicle and therefore provides high safety margins towards people, objects and other vehicles in the urban environments. The software allows for invitation of third parties, such as taxi, or transportation companies to utilize the power strip and thereby creates additional income opportunities for the operator.

By using Elonroad, battery sizes can be significantly reduced on busses in intercity traffic, reducing both cost and vehicle weight providing a positive spiral. The modular underbody pick-up can be fitted to vehicles of all sizes and brands.



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Terminal loading dock and holding lane power

For delivery companies, taxi companies or similar, a transition to EV use poses a challenge when it comes to implementing smooth charging that doesn't interfere with the ongoing operation. Time is costly, nonstop vehicle availability is important and personnel expensive. Handling of EV charging is the No1 obstacle for implementing EVs in existing short-range logistics, but it does not have to be like that.

With Elonroad, EV integration in a logistics hub is seamless and needs no interaction from anyone. The power strip can be fitted either in lanes, parking spots or in individual loading docks and provides no hands EV charging as soon as a vehicle is there.

The solution is completely software driven providing individually prioritized load balancing for optimal charging based on the terminals total power supply as well as the individual vehicle range needs. Elonroad is a turn-key solution including software that manages everything from electricity provision to fire protection and additional safety features. Elonroad provides an easy to navigate dashboard and even includes snow removal both through heating the strip and an actual mount for snow plows. The on-car system is easily integrated into any off-the shelf EV as an underbody add-on.



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Plants, airports, mining, warehouses...

Elonroad is available in a variety of configurations to suit the specific needs of each application. In-ground, on-ground, off-ground (raised/side of road) power strips are possible. With fully electrified on site electric roads electric power is available on the fly throughout an entire operation, equipment batteries can be held at a minimum, reducing both cost and weight, eliminating the need for manual charging.

Elonroads EV power strips are also available for holding lanes or parking spaces for seamless charging of vehicles without fully electrified roads.

Elonroads extremely robust and well tested conductive pick-up technology is well suited for heavy industrial usage. Especially off-ground power strips provide unmatched robustness to dirty and harsh environments. The advanced software provides high personnel security as well as the ability to load-balance individual vehicle charging based on battery status, total available power on site and expected usage.

Elonroad has built in fire protection and even optional fire extinguishing for use in environments where combustible materials are handled.



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Pre-study of your needs

Contact us and we will be happy to conduct a pre-study where we conduct an analysis of your needs to provide a solution for seamless EV charging matching your operation and requirements.

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FOR MORE INFORMATION

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