

Letter of Intent

City Deal Smart Solar Charging Utrecht Region

Utrecht Region: Energy transition test ground

Utrecht Region is creating a test ground – unique in the world – by linking local energy generation to the smart charging of electric cars. The Smart Solar Charging concept is now creating opportunities to upgrade today's pilots to a large-scale implementation of a new, forward-looking energy market. The development of this large, new market could be accelerated by adjusting current laws and regulations and offering tax facilities, which would give cities and businesses in the Netherlands the opportunity to lead the way internationally in achieving energy transition.

This is the starting point for a new City Deal

City deal

In tandem with the government, authorities and businesses in the Utrecht region are investigating the general outlines of new, smart regulations for accelerating energy transition and increasing economic opportunities. In a living lab – a specific area (the Lombok city district), limited in time (three years) – we, businesses, citizens and the government, will work together on a results-oriented basis involving only limited risks to examine how a new energy system such as this one will work in actual practice.

Quick start

Specifically, we are seeking a 3-year 'supervision holiday' for this living lab which will allow us to apply different and variable grid and energy rates and energy taxes when supplying electricity to charging stations for electric cars.

At the same time, upgrade projects are being prepared in the region

Smart Solar Charging Alliance

Nissan Europe introduced its international Vehicle-to-Grid annual conference in Utrecht. Utrecht region is introducing a world first: a smart charging station which will make Smart Solar Charging and V2G accessible worldwide. The smart charging station was developed in a consortium involving GE, Stedin, Vidyn, Last Mile Solutions, Lomboxnet and Utrecht Municipality.

The smart charging station:

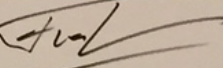
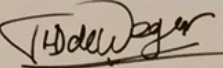
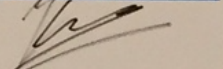
- can charge and also discharge (vehicle-to-grid, V2G), establishing the foundation for a new local energy system based on local energy sources and local storage;
- uses the worldwide charging standard (AC), developed in the Netherlands, making it suitable in principle for all electric cars, which means that Smart Solar Charging and V2G can be implemented worldwide;
- is 80% cheaper than the present international standard owing to a more compact design and optimised technology, and because it is simple to upgrade to large-scale production – which takes place in the Netherlands;
- ensures, owing to its compact design, that smart charging and discharging can take place anywhere: in a public space and also in any garage or drive area.

Green deal

The 'Electric Charging Infrastructure Available to the Public' green deal dovetails with this development.

Having taken note of the above we declare that

We, the parties below, support the living lab for Smart Solar Charging in Lombok, Utrecht. We pledge to perfect the conditions for smart grid as an enabler for solar cities, e-mobility and thus the next economy. As partners in - and of - the Utrecht region, we intend to close a 'city deal' in Lombok this year, improving the framework for Smart Solar Charging to accommodate the scale jump of smart charging and sustainable energy across the EU in the near future.

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