

Traffic: a network of smart charging stations powered by solar

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Year of commitment : 2019

CO2 Impact : • Renewable green energy for electric mobility • A decrease in site energy consumption from the grid

Green energies : Photovoltaic solar



2 000 000 €

Builder

Enerdeal

GENERAL INFORMATIONS

Traffic is a chain of stores specializing in local discount and non-food distribution. Of Belgian origin, it now has more than 80 stores throughout Belgium, France and Luxembourg.

With the completion of a framework contract in 2018 with the company Enerdeal, Traffic has strengthened its eco-responsible policy with a new project to equip the largest number of solar powered charging station stores produced on the site. . Today, about twenty Traffic stores have already been equipped.

For many years, Traffic has been working to improve its environmental footprint in order to make it as eco-friendly as possible, contributing to projects that reduce CO2 emissions in transport, logistics and management activities of waste.

The company, in an increasingly sustainable approach, now equips its stores with smart charging stations and photovoltaic panels to guarantee renewable green energy production for electric mobility. Customers can, when shopping, enjoy free vehicle charging facilities.

The deployment of this new initiative is still underway to encourage the use of non-polluting vehicles loaded with renewable green energy (not from coal-fired power plants or nuclear power plants).

Allowing recharging with green energy produced directly on site requires each store to thoroughly study its own energy needs and its own instantaneous solar production.

In order to maximize green energy vehicle charging, smart charging stations take into account solar energy generation and the store's energy demand.

The power offered at the terminals will be all the more important that solar production on site allows. The charging stations have a charging capacity of 11kW per connection point, these terminals allow the user to have a battery life of up to 55Km per hour per charge.

The energy management of the site is increased in flexibility thanks to smart terminals and solar production. The energy produced by the solar panels feeds the charging stations but also the site, which leads to a decrease in the energy consumed on the network.

Progress Status

In progress

Data Reliability

3rd part certified

Sustainable Development

Attractiveness :

The creation of a network of charging stations is a real support for the development of electric mobility.

Well Being :

Ease of free recharge during purchases

Social Cohesion :

The network of solar-powered smart charging stations is listed on EV driver platforms.

Preservation / Environmental Improvement :

Guaranteeing green energy produced closer to the place of consumption is a real plus for the environment.

Responsible use of resources :

The energy consumption of the network has decreased significantly on each site thanks to the contribution of solar energy.

Testimony / Feedback

The charging stations are taken over by the Chargemap platform which is powered by a community of electric car drivers.

Video of the testimony of the installer Enerdeal.

Governance

Traffic

Holder Type : Private Company

Enerdeal

Business Model :

A third-party financing solution allows the company to benefit from the advantages of the installation without having to invest.

The investor whose income comes from green certificates related to solar energy production has a common interest in the quality of the equipment and the maintenance of the site. It bears the risk associated with the support mechanism for the sector.

Sustainable Solutions

A solar installation on each store Traffic powering the charging stations

Description :

The installation:

Average installed power per store: 80 kWp

Average roof area of 1000 m²

Charging station and photovoltaic panels installer: Enerdeal

Terminal Type: Powerdale Nexttender

- Energy/climate :
- Proximity services
- Air quality
- Electric vehicles
- Infrastructure
- Low-carbon materials/ infrastructure

Company (es) Website :



Reasons for participating in the competition(s)

Une aide à la mobilité électrique apportée par la grande distribution.

Une énergie verte produite à proximité qui alimente le réseau de bornes de recharge.

Une flexibilité de la charge maximisant l'énergie renouvelable.

Une solution de tiers financement permettant de bénéficier des avantages de l'installation sans devoir investir.

Building candidate in the category



Grand Prix Infrastructure Durable



Prix du public

PDF

