

## ElaadNL

Leading the charge for electric cars.

**U**ntil you build enough charging stations, people won't buy electric vehicles. But until there are enough electric vehicles on the road, there isn't enough demand to justify building those power points. It's your classic chicken and egg situation.

### ABOUT ELAADNL

ElaadNL\* is a group of eight Dutch electricity companies who got together to break that cycle. Together, they planned to create a national network of thousands of charging points for electric vehicles across the Netherlands. And they asked us to help.

### WHAT ELAADNL NEEDED

In the future, there will be many more electric cars on the road. To cope with the extra demand, ElaadNL needed reliable data to decide where they would need to invest on the grid.

They also needed to design new charging points in a way that would encourage people to use them. This included finding the most convenient locations, making it quick and easy to pay, and reassuring drivers that their personal details were secure.

But above all this, ElaadNL needed a system that gave them the freedom to switch suppliers easily—whether for the charge points themselves or the IT systems that they ran on.

### THE CHALLENGE

A national network of charging points had never been implemented before. So it was difficult to pin down all the details in advance.

Many different organisations had to work together closely to make things happen on the ground: electricity companies, IT companies, charge point manufacturers, car manufacturers and local authorities. All with their own priorities, systems and processes.

Additionally, we were in uncharted waters. So it was hard to anticipate what ElaadNL might need in the future. This meant we had to come up with an answer that gave the organisation the flexibility to scale up or scale back, based on its requirements.

### OUR ANSWER

We worked closely with ElaadNL and Alfen (makers of charge points) to develop an end-to-end Charge point Interactive Management System (CiMS). The beauty of CiMS was that it worked with charging points of any

### CASE STUDY

#### TRANSPORTATION

#### We've helped ElaadNL:

- Launch a national network of charging points in record time
- Get more electric vehicles on the road
- Bridge the gap between different suppliers and systems
- Lead the way on sustainability

brand. And it was also compatible with each of the partners' own systems. One for all, all for one.

CiMS tracked the location, condition and status of each individual charge point. It managed payments quickly and securely. Additionally, it ran in the cloud. So it was quick and easy to add new partners and charge points to the grid. There was no need to install any new software or equipment. And it was easy for partners to share information about details like billing.

### A SUCCESS STORY

CiMS gave ElaadNL a quick, easy way to make its vision of a national electric vehicle charge point network a reality. Today, ElaadNL has a network of more than 3,000 charging points in approximately 300 municipalities across the Netherlands, and has dealt with over 600,000 transactions. CiMS also won ElaadNL a Computerworld Honors Program award in 2012. And in 2011, it was highly commended in the GSMA Awards for Best Mobile Innovation in Utilities and was awarded by the Dutch ICT Office community with the ICT-Office Innovation Award. These are just three examples of how the market honoured our solution.

But ElaadNL isn't the only one reaping the benefits. Since CiMS works with different IT systems, it's easy to adapt for other markets as well. So it's now also being used in Germany, Luxembourg, Sweden and Norway too.

We see sustainability as an opportunity—to create new business, protect the environment and improve the quality of people's lives.

### WHY WORK WITH CGI

We have a solid track record of managing complex, critical projects—and we're able to apply that experience to different sectors and industries. We've worked with electric vehicles since the start, and by working with our clients and partners, our charging solution has been rolled out internationally. We have the ability to bring various parties and organisations together, and align their processes.

\* ElaadNL, along with EVnetNL, has emerged from the foundation e-laad, which established a network of around 3,000 public charging stations for electric cars across the Netherlands between 2009 and the beginning of 2014. ElaadNL is a knowledge and innovation center in the field of charging infrastructure in the Netherlands, providing coordination for the connections of public charging stations to the electricity grid on behalf of the network managers involved. Managing the existing charging stations is not one of ElaadNL's functions. This is done by EVnetNL in coordination with the relevant municipalities.

For more information about CGI, visit [www.cginederland.nl](http://www.cginederland.nl) or email us at [info.nl@cgi.com](mailto:info.nl@cgi.com).

### SMART? ALREADY STARTED

We understand how to turn big, strategic ideas into real results. It's not just about technology for us. It's about understanding what you're trying to achieve, and then finding practical ways to make it happen.