



Clean Mobility

Haike van de Vugte

17 November 2020



About Firan



Firan, dochteronderneming van Alliander

Firan is onderdeel van Alliander, een groep bedrijven met expertise in energienetwerken, energietechniek en technische innovatie.



17 november 2020



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What we see

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International and Dutch
climate targets determine the
agenda

The Regional Energy Strategy
and the local Heat Transition
Vision lay the foundation

Electricity grids are under
pressure

Optimize existing connections

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Firan **designs, realizes, manages and maintains** local energy networks for organizations, companies and cooperatives



Our solutions revolve around **cable pooling, charging hubs and off-grid networks**

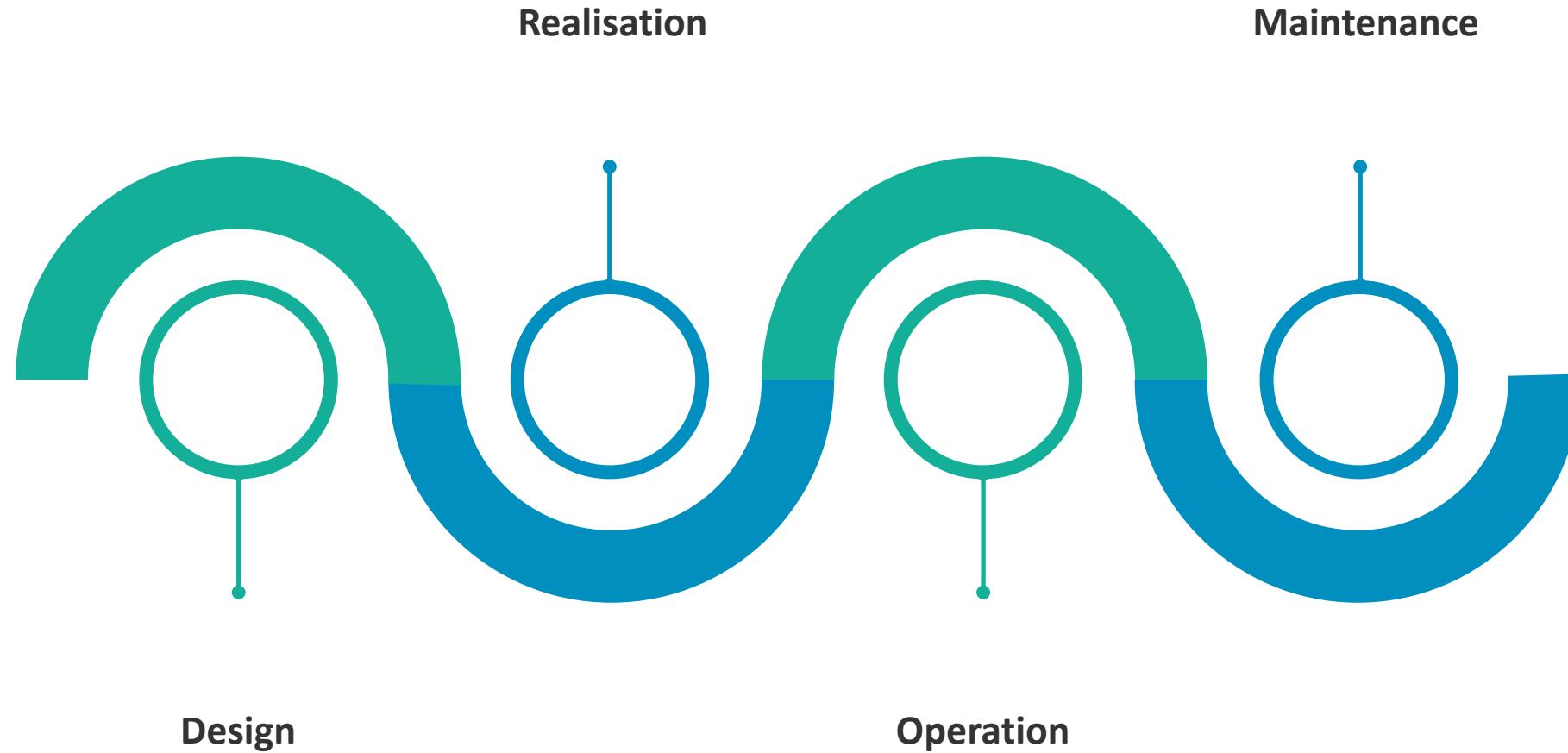


Our **Grid Control Platform** is unique, which matches local electricity and heat demand with the local energy supply, possibly with storage



In this way, we are advancing infrastructure for new energy

Firan



Charging hubs



Charging hubs

The challenge

In many cases there is insufficient network capacity to facilitate charging facilities and associated charging infrastructure.

Charging hubs are locations where fast chargers, energy generation and energy storage are combined to prevent grid expansion and facilitate optimization in the energy markets.

The solution

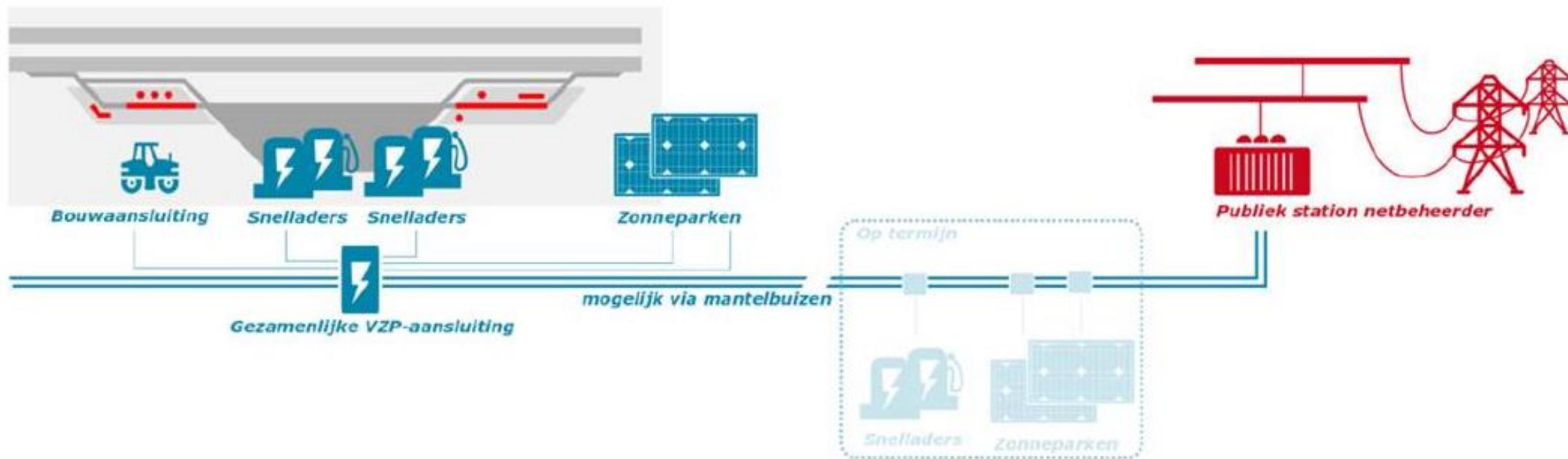
In order to realize the charging facilities without grid reinforcement, a proposition is needed in which the required charging infrastructure can be combined with a control module, in order to organize the energy balance locally. This requires pilot projects to investigate and implement the forms of cooperation, business models and legal options.



Charging hub

Qirion report

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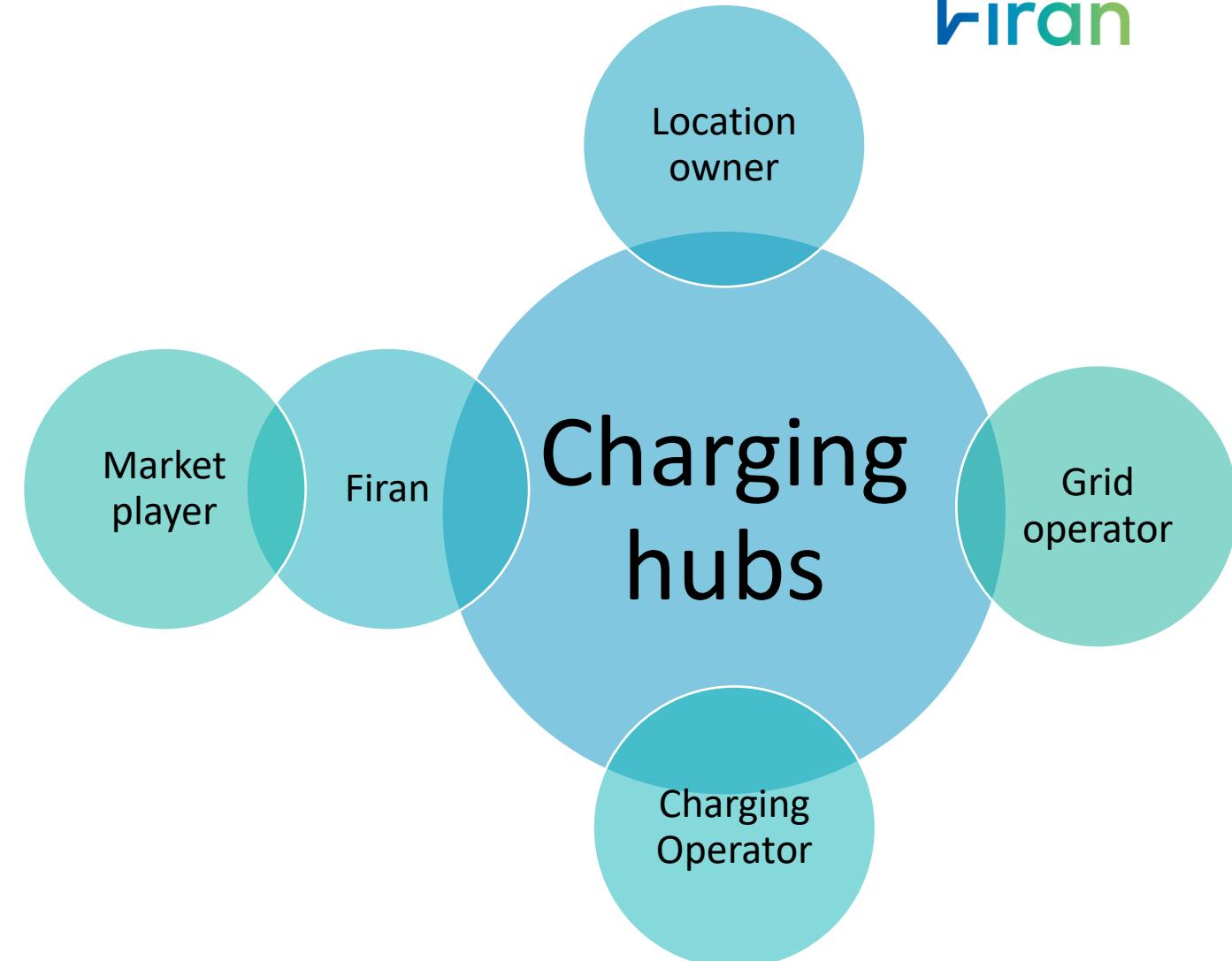


Charging hubs – who is who?

The grid operator has the task of connecting new consumers and generators, however, it is running up against the limits of the possibilities.

Firan can open up locations by realizing fast chargers, storage systems and balancing locally.

An operator of the charging facility provides services and financial settlement to the customers.





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Firan Grid Control

Zo werkt het Grid Control Platform

Het Grid Control Platform van Firan monitort de energiestromen binnen lokale netwerken en decentrale systemen.

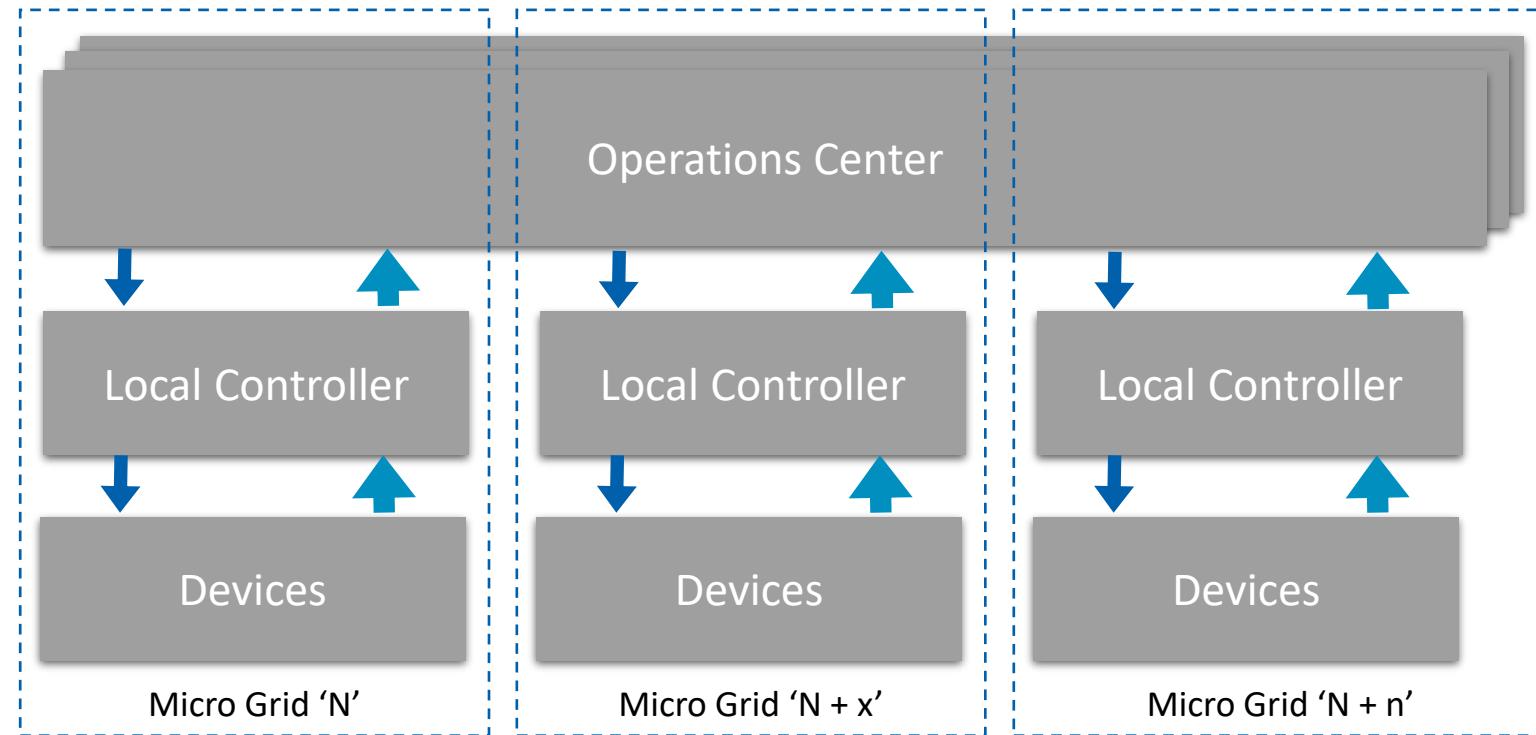
De monitoring let op opwek, opslag, conversie en verbruik van (duurzame) energie.

De software maakt het mogelijk om de energiestromen steeds optimaal in balans te brengen.



FGC MULTI TENANT APPROACH

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Zo werkt het Grid Control Platform



Contact

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