

## The International eMobility - Real Estate Network

One-pager

### Our vision

A. With cars and aeroplanes increasingly powered by electricity, mobility and real estate will have to integrate. The main reason is that buildings and vehicles use the same energy infrastructure. This means that houses, offices, buildings and airports have to change before mobility on the road and in the air can become electric on a large scale.

B. Sustainable energy sources such as solar panels and wind turbines create a decentralised electrical grid. As sun and wind determine the supply of electricity, power peaks destabilise the grid. Storage is needed to prevent this from happening.

C. By connecting sources of sustainable electricity with storage facilities using so-called 'smart grids' and 'smart chargers' for cars and aeroplanes, buildings can become energy hubs. These hubs can absorb energy when there is an oversupply and deliver electricity to the grid when it is needed.

### What this means

To allow smart grids and smart charging technology to develop, real estate owners and policymakers should change their perspectives and behaviour. Furthermore, out of date regulations are blocking a timely introduction of the technology needed to create sustainable buildings and cities at large.

There can be no delay in introducing smart grids and smart charging solutions. Grid operators have an important role in this. As they go through a phase of adaption, grid operators will have to reconsider their long-term investment strategy in critical infrastructure.

To supply societies around the globe with sustainable energy, all parties involved will have to adapt; governments, commercial real estate owners, housing agencies, developers, construction companies, car manufacturers, mobility suppliers and producers of electricity.

### How the world will (not) change

When real estate and mobility integrate, two large industries meet; automotive and real estate. One is dominated by large car manufacturers. The other is controlled by construction companies and real estate owners. The economic impact of these industries is enormous.

As the automotive and real estate industry entwine, the impact on societies at large will be considerable. At the same time, it is clear that both are ill-prepared for the encounter. Neither side has got a clue about the other. As a result, both industries don't understand the complex and lengthy production processes and supply changes of each other, nor its long-term strategic decision-making.

### **The shifting tectonic plates**

Electrification of the energy supply of buildings, cars and aeroplanes ultimately sets in motion a third giant. The energy sector, existing out of oil majors, grid operators and utilities, will have to reconsider its position, too.

Sustainable energy sources such as solar panels and wind turbines generate an increasing share of the electricity we use. This does not only create a decentralised grid in which electricity comes from both large power stations and buildings that partly generate the energy they use energy.

It also creates a demand for storage, as solar panels and wind turbines cause power peaks in the grid when the sun is shining and the wind is blowing. With more and more cars having batteries, they are going to be part of the network of storage facilities which is under construction as we speak.

### **The discussion**

With the electrification of the energy supply gaining momentum, the industries of automotive, real estate and energy are going to integrate. Although this is a natural consequence of the development we are in, this movement is not going to be easy. First, because the industries are large and their strategic and operational re-orientation will have an enormous impact on society. Second, being large the industries have their very own way of working and are not used to partnering with others.

### **Our mission**

The mission of the network is to bring together people from all three industries and establish a group of thought leaders by allowing them to learn from each other and jointly discuss the innovations needed. Because without a better mutual understanding, emobility will not reach its full potential and will continue to be a long-awaited ground-breaking technology. The ultimate goal is to make electric mobility, on the road and in the air, work for everyone.

### **Who we are?**

In alphabetical order:

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**Want to join? Contact us at [info@persblik.nl](mailto:info@persblik.nl).**