



Electric and Hydrogen Mobility Scenarios

With the purchase of Electric and Hydrogen Mobility Scenarios, you receive comprehensive data for groundbreaking decisions in the field of electric and hydrogen mobility. The data is based on EBP's own proven models and market-leading expertise in the context of mobility. In addition to nationwide data, you can also obtain cantonal and municipality-specific data. You can request the data by different vehicle categories and scenarios up to the year 2050. In addition, we provide you with a detailed background report with the data package.

About our product:

- Available data packages
- Spatial resolution
- Vehicle categories
- Scenarios
- Price list

Data tailored to your needs:

- For Swiss cantons
- For cities and municipalities
- For energy supply companies
- For service station operators
- For parking garages and real estate portfolios

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Be well prepared for the future

The mobility sector is responsible for almost one third of Swiss greenhouse gas emissions (cf. [FOEN publication of 26.04.2022](#)). To achieve the climate goal of net zero emissions by 2050, it is therefore necessary to switch from fossil fuels (gasoline, diesel) to sustainable energy sources. **Electric cars**, as well as **hydrogen (fuel cell) cars**, play an important role in this. Electric and hydrogen mobility is on the verge of becoming a mass market. At present, however, the **charging infrastructure** for sustainable vehicles is still underdeveloped. Alongside the growth of electric and hydrogen vehicle sales the available charging infrastructure will have to increase significantly in the next few years.

With the Electric and Hydrogen Mobility Scenarios, we provide the appropriate data basis for well-founded decisions on the topic. So that you are optimally prepared for the future.

Available data packages

With the Electric and Hydrogen Mobility Scenarios, we offer you up to three complementary data packages that build on each other. We provide you with information in 5-year steps up **to the year 2050**.

All data points contain information about the drive categories ICE (Internal Combustion Engine), BEV (Battery Electric Vehicle), PHEV (Plug-in Hybrid Electric Vehicle) and FCEV (Fuel Cell Electric Vehicle), as well as the vehicle categories Passenger cars (PC), Light Commercial Vehicles (LCV), Heavy Goods Vehicles (HGV) and buses. For more information on the drive and vehicle categories, please see our included background report*, as well as our [freely available report](#)*.

* Reports are currently only available in German.

Traffic

The traffic data package contains information on the development of motorized traffic up to the year 2050.

The following data points are included in the traffic data package:

- Vehicle stock: in 1000 vehicles
- New vehicle market: in 1000 vehicles
- New registrations per fuel type: in %
- Vehicle stock – dynamic: in 10⁹ vehicle kilometres per year

With an order you will receive an Excel file with one data sheet per scenario. The following example shows how the data set is roughly structured and subdivided:

© EBP Electric and Hydrogen Mobility Scenarios 2022		BAU - Business as usual						
Year		2020	2025	2030	2035	2040	2045	2050
Region: Example canton								
Vehicle category: Light Commercial Vehicles (LCV)								
New registrations per fuel type (%)								
ICE_B		0.0%	7.0%	6.7%	0.0%	0.0%	0.0%	0.0%
LCV small		1.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV medium		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV large, low mileage		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV large, high mileage		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ICE_D		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV small		87.0%	86.0%	86.0%	79.0%	59.0%	51.0%	39.0%
LCV medium		17.0%	14.0%	14.0%	12.0%	10.0%	8.0%	7.0%
LCV large, low mileage		0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV large, high mileage		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PHEV		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV small		0.1%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%
LCV medium		0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV large, low mileage		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV large, high mileage		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BEV		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV small		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV medium		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV large, low mileage		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV large, high mileage		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
FCEV		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV small		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV medium		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV large, low mileage		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
LCV large, high mileage		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
New vehicle market - absolute [1000 vehicles]								
ICE_B LCV small		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ICE_B LCV medium		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ICE_B LCV large, low mileage		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ICE_B LCV large, long mileage		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ICE_D LCV small		0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
ICE_D LCV medium		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Please feel free to reach out to our [support team](#) if you have any questions about the product.

Energy

The Energy data package can only be purchased in combination with the traffic package above. It contains additional information on energy consumption per fuel.

The following data points are included in the Energy data package:

- Final energy consumption of liquid fuels (diesel & gasoline): in kWh/100 km and in GWh
- Final energy consumption electricity: in kWh/100 km and in GWh
- Final energy consumption hydrogen: in kWh/100 km and in GWh

For nationwide and cantonal data, the data point CO₂ emissions (direct and indirect, in 1000 tons) is additionally part of the data package.

With an order you will receive an Excel file with one data sheet per scenario. The following example shows how the data set is roughly structured and subdivided:

© EBP Electric and Hydrogen Mobility Scenarios 2022		BAU - Business as usual						
Year		2020	2025	2030	2035	2040	2045	2050
Region: Example canton								
Vehicle category: Passenger car								
Final energy consumption of liquid fuel [kWh/100 km]								
ICE_B Small car		427.1021	460.0000	394.2376	322.8176	251.3460	180.4772	109.2000
ICE_B Compact class		327.0113	460.0000	471.2113	380.5403	280.2402	180.0401	90.0000
ICE_B Medium class		380.1222	380.0001	380.0000	417.0000	440.0000	440.0000	400.0000
ICE_B Upper class		380.0000	377.0000	380.0000	400.0000	420.0000	440.0000	460.0000
ICE_D Small car		427.1021	460.0000	394.2376	322.8176	251.3460	180.4772	109.2000
ICE_D Compact class		327.0113	460.0000	471.2113	380.5403	280.2402	180.0401	90.0000
ICE_D Medium class		380.1222	380.0001	380.0000	417.0000	440.0000	440.0000	400.0000
ICE_D Upper class		380.0000	377.0000	380.0000	400.0000	420.0000	440.0000	460.0000
PHEV Small car		200.0000	170.0000	170.0000	170.0000	170.0000	170.0000	170.0000
PHEV Compact class		300.0000	270.0000	270.0000	270.0000	270.0000	270.0000	270.0000
PHEV Medium class		350.0000	320.0000	320.0000	320.0000	320.0000	320.0000	320.0000
PHEV Upper class		400.0000	370.0000	370.0000	370.0000	370.0000	370.0000	370.0000
BEV Small car		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BEV Compact class		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BEV Medium class		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BEV Upper class		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FCEV Small car		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FCEV Compact class		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FCEV Medium class		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FCEV Upper class		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Final energy consumption electricity [kWh/100 km]								
ICE_B Small car		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ICE_B Compact class		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ICE_B Medium class		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ICE_B Upper class		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ICE_D Small car		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ICE_D Compact class		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ICE_D Medium class		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ICE_D Upper class		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PHEV Small car		7.7000	8.0000	8.0000	8.0000	8.0000	8.0000	8.0000

Please feel free to reach out to our [support team](#) if you have any questions about the product.

Charging Infrastructure

The charging infrastructure data package builds on the traffic and energy data packages and is only available together in combination with the other two data packages. It contains additional information on the number and type of charging processes and charging quantities to be expected. The data points are divided among the four different charging station types home charging, work charging, point of interest (POI) charging and fast charging.

The following data points are included in the charging infrastructure data package:

- Number of charging processes
- Number of charging stations

- Charging volume: in MWh

With an order you will receive an Excel file with all scenarios in a data sheet. The following example shows how the data set is roughly structured and subdivided:

© EBP Electric and Hydrogen Mobility Scenarios 2022
 Region: Example city
 Vehicle category: Light Commercial Vehicles (LCV)

Scenario	Attribute	Charging type	Charging capacity	2020	2025	2030	2035	2040	2045	2050
BAU	Number of charging stations	Depot	100 MWh	0	0.000	0.001	0.002	0.003	0.004	0.005
BAU	Number of charging stations	Depot	50 MWh	0	0.001	0.002	0.003	0.004	0.005	0.006
BAU	Number of charging processes	Depot	100 MWh	0	2.388	5.144	12.880	22.148	31.244	38.000
BAU	Number of charging processes	Depot	50 MWh	0	3.388	7.418	18.588	33.148	46.711	57.000
BAU	Charging volume [MWh]	Depot	100 MWh	0	0.488	1.000	2.388	4.444	6.377	7.900
BAU	Charging volume [MWh]	Depot	50 MWh	0	0.344	1.402	3.388	6.000	8.500	10.500
ZERO – E	Number of charging stations	Depot	100 MWh	0	0.000	0.001	0.002	0.003	0.004	0.005
ZERO – E	Number of charging stations	Depot	50 MWh	0	0.001	0.002	0.003	0.004	0.005	0.006
ZERO – E	Number of charging processes	Depot	100 MWh	0	2.111	4.667	10.222	18.333	26.444	32.777
ZERO – E	Number of charging processes	Depot	50 MWh	0	3.111	6.667	14.667	26.667	38.667	48.667
ZERO – E	Charging volume [MWh]	Depot	100 MWh	0	0.222	0.444	1.000	1.778	2.667	3.333
ZERO – E	Charging volume [MWh]	Depot	50 MWh	0	0.156	0.309	0.694	1.222	1.778	2.222
ZERO – Hydrogen Focus	Number of charging stations	Depot	100 MWh	0	0.000	0.001	0.002	0.003	0.004	0.005
ZERO – Hydrogen Focus	Number of charging stations	Depot	50 MWh	0	0.001	0.002	0.003	0.004	0.005	0.006
ZERO – Hydrogen Focus	Number of charging processes	Depot	100 MWh	0	2.111	4.667	10.222	18.333	26.444	32.777
ZERO – Hydrogen Focus	Number of charging processes	Depot	50 MWh	0	3.111	6.667	14.667	26.667	38.667	48.667
ZERO – Hydrogen Focus	Charging volume [MWh]	Depot	100 MWh	0	0.222	0.444	1.000	1.778	2.667	3.333
ZERO – Hydrogen Focus	Charging volume [MWh]	Depot	50 MWh	0	0.156	0.309	0.694	1.222	1.778	2.222

Please feel free to reach out to our [support team](#) if you have any questions about the product.

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Spatial resolution

To ensure that the data is tailored to your needs, we offer the Electric and Hydrogen Mobility Scenarios in different spatial resolutions.

- Switzerland
With the option Switzerland you receive the selected data aggregated for the whole of Switzerland.
- Canton
If you want cantonal aggregated data, you can select a canton with this option.
- Cities and municipalities
With the municipality option, you obtain data at the city/municipality level. The risk of statistical bias is greater for small municipalities. Therefore, the accuracy of our data decreases for municipalities with less than 5000 inhabitants.

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Vehicle categories

We divide all vehicles into categories to calculate fuel consumption, or more specifically their charging demand. For this we divide the vehicles into four size categories.

- PC: Passenger cars
Passenger cars are additionally broken down into the size categories small, compact, medium and upper class passenger cars.
- LCV: Light commercial vehicles

This category includes delivery vans and light semi-trailers with a total weight of 3.5 tons or less.

LCV are further subdivided into the size classes small LCV, medium LCV, as well as large LCV with low mileage and large LCV with high mileage.

- HGV: Heavy Goods Vehicles

These include vehicles with a total weight of over 3.5 tons.

HGV are further subdivided into the size classes HGV < 12 t, HGV 12 - 26 t with low mileage, HGV 12 - 26 t with high mileage, and HGV > 26 t.

- Buses:

Buses are subdivided into the size classes of minibuses, coaches, public buses and articulated & trolley buses (combined).

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Scenarios

The further increase in the market share of electric and hydrogen vehicles in the coming years depends on various factors: for example, the increase in vehicle supply, the further expansion of the charging infrastructure, and new policies. Our data covers three different scenarios to show the broadest possible spectrum of future developments up to the year 2050. Thus, despite these uncertainties, our data provides guidance.

The three scenarios are based on the SFOE Energy Perspectives 2050+. They include detailed information on the composition of the passenger vehicle stock (drive types per size category), charging behavior and energy demand of electric vehicles.

- BAU: Business as usual (analogous to the scenario from the SFOE)

The BAU scenario represents the continuation of current energy and climate policy measures.

- ZERO - E (net zero)

The ZERO - E scenario assumes energy system developments that are compatible with the long-term climate goal of net zero greenhouse gas emissions by 2050 while ensuring a secure energy supply. In order to use the available sustainable energy as efficiently as possible, the focus is on battery-electric drives. Plug-in hybrids play an important role as a transitional technology, but will be replaced by purely battery-electric vehicles from 2030. From 2035 (passenger cars) or around 2040 (other vehicle categories), no more vehicles with combustion engines will be newly registered.

- ZERO - Hydrogen Focus (net zero)

The ZERO - Hydrogen Focus scenario is based on the ZERO - E scenario. In contrast to the ZERO - E scenario, ZERO - Hydrogen Focus assumes that hydrogen produced from green electricity is imported to Europe and Switzerland and can be used economically in additional vehicle categories.

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Price list

In the following table you can find the prices of the different data packages and attribute combinations. After ordering you will receive a quote with our offer.

You have the possibility to select several municipalities in the order process. You can choose if you want to order the data in total over all the chosen municipalities or separately per municipality. The price is charged per data set. Meaning if you order the data in total, you pay once, otherwise per municipality for which you would like to receive the data. If you want the data at municipality level, we offer you a 50% discount from the second municipality onwards.

The prices are exclusive of VAT.

Attributes		Cities / Municipalities	Canton	Switzerland
Basic data record BASIC package: traffic BASIC category: PC		1800 CHF	1800 CHF	1800 CHF
Data package	Energy	+ 1800 CHF	+ 1800 CHF	+ 1800 CHF
	Charging infrastructure	+ 1800 CHF	not available online	not available online
Vehicle category	LCV Price per Data package	+ 600 CHF	+ 600 CHF	+ 600 CHF
	HGV Price per Data package	+ 600 CHF	+ 600 CHF	+ 600 CHF
	Buses Price per Data package	+ 600 CHF	+ 600 CHF	+ 600 CHF

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For Swiss cantons

Electric and hydrogen mobility harbours both opportunities and potential risks. To what extent do cantons want to support and promote the various sustainable forms of mobility? Our Electric and Hydrogen Mobility Scenarios help you answer this and other important questions. With the help of our forecasts on the development of vehicle numbers (electric, hydrogen & combustion cars), fuel or charging demand, or traffic-induced CO₂ emissions, you can make informed and sustainable decisions.

The Electric and Hydrogen Mobility Scenarios have already been used in several EBP consulting projects by our experts to develop cantonal concepts and action plans or to plan adjustments of the motor vehicle tax.

- Identification and analysis of the opportunities and risks of electric mobility
The cantons of Basel-Stadt and Graubünden already had the opportunities and risks of electromobility and corresponding measures examined by an EBP consulting team in 2015.

Learn more about the projects:

- [Electromobility in the Region of Basel: Measures Concept](#)
- [Opportunities Associated with Electromobility in the Canton of Graubünden](#)

Recommendation:

For the identification and analysis of opportunities and risks of electric and hydrogen mobility in your canton, we recommend the purchase of our data packages [Traffic](#) and [Energy](#).

- Electric mobility concept
Various cantons have developed effective support measures within the framework of an electromobility concept in cooperation with EBP and based on the EBP charging infrastructure data.

Learn more about the projects:

- [Opportunities for electromobility in the canton of Thurgau \(in German\)](#)
- [Electric vehicles in the canton of St.Gallen](#)
- [Opportunities of electromobility for the Canton of Schaffhausen \(in German\)](#)

Recommendation:

For the development of electromobility concepts, we recommend the purchase of our data packages [Traffic](#) and [Energy](#).

- Adjustment of the cantonal motor vehicle tax
Cantonal motor vehicle taxes must provide both a stable revenue and effective incentives for energy-efficient new cars. Since the adaptation of the corresponding laws and regulations takes time, the end of financial benefits for electric cars must already be designed today.

Learn more about the project:

- [Adjustment of cantonal vehicle taxes](#)

Recommendation:

To plan the adjustment of the cantonal motor vehicle tax, we recommend the purchase of our data package [Traffic](#).

Have we sparked your interest? Order the data set for your canton easy online.

[Order now](#)

We will be happy to [advise you](#) in more detail on these topics and support you in developing your specific concepts and measures.

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For cities and municipalities

Many important questions also arise at the community level regarding the achievement of climate goals and upcoming technological developments in the field of mobility.

Community-level data from the Electric and Hydrogen Mobility Scenarios can be used to

estimate the future demand for renewable electricity in your community. The data is also fundamental for planning and preparing distribution grids for electric mobility, as well as implementing energy and climate policy instruments to promote sustainable mobility.

- Municipal electric mobility concepts and action plans
The Electric and Hydrogen Mobility Scenarios have already been incorporated into several municipal concepts and action plans co-created by EBP consulting teams.

Learn more about these projects:

- [Strategy and organisation for the development of electromobility for the city of Zurich](#)
- [Incentivizing electric vehicles in the city of Zurich](#)
- [Electromobility concept for Münsingen \(in German\)](#)
- [Concept for electromobility and alternative drive systems for the city of Illnau-Effretikon \(in German\)](#)

Recommendation:

For the development of municipal electromobility concepts and action plans, we recommend the purchase of our data packages [Traffic](#), [Energy](#) and [Charging infrastructure](#).

- Development of a publicly accessible charging infrastructure
Our quantitative foundation is suitable for the demand-oriented development of charging infrastructure for electric vehicles.

Learn more about the project:

- [Establishing publicly accessible charging infrastructure in Swiss municipalities](#)

Recommendation:

For planning a publicly accessible charging infrastructure in your municipality, we recommend purchasing our [Traffic](#), [Energy](#) and [Charging infrastructure](#) data packages.

- Electrification of bus fleets
For the electrification of road transport in cities, the electrification of bus fleets and taxis is also a high priority.

Learn more about the projects:

- [Energy and fleet strategy for public transport operator for Baselland Transport AG](#)
- [Strategy for electric bus and distribution grid in Swiss mountain region](#)
- [Electric bus strategy for rural transportation, for the Lake Zurich and Oberland Transport Services](#)
- [Effective promotion of electric taxis in the canton of Basel-Stadt](#)

Recommendation:

For planning the electrification of bus fleets, we recommend the purchase of our data packages [Traffic](#) and [Energy](#).

Have we sparked your interest? Order your municipality-specific data set easy online.

[Order now](#)

We will be happy to **advise you** in more detail on these topics and support you in developing your specific concepts and measures.

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For energy suppliers

Energy utility companies can use our Electric and Hydrogen Mobility Scenarios as a basis for decision-making to strategically position themselves and identify attractive business areas within electric and hydrogen mobility.

- Planning principles for market activities and distribution grids
Our data on future electricity demand and the expected number of charging processes at private and public charging stations help to update the rollout concept for charging stations, as well as the distribution grid plan for your company.

Learn more about the projects:

- [EBP readies power grids for energy transition](#)
- [Preparing for a large-scale market shift toward electric vehicles, for EWL](#)

Recommendation:

We recommend purchasing our data packages [Traffic](#), [Energy](#) and [Charging infrastructure](#) for this purpose.

- Market analysis and identification of new business activities
Our data can be used for market analysis of current business activities and identification of new business ideas.

Learn more about the project:

- [Strategy review of electric vehicle services, for AEW](#)

Recommendation:

We recommend purchasing our [Traffic](#), [Energy](#) and [Charging infrastructure](#) data packages for this purpose.

Have we sparked your interest? Order the data packages for your company easy online.

[Order now](#)

We will be happy to **advise you** in more detail on these topics and support you in developing your specific concepts and measures.

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For service station operators

Service station operators are faced with the challenge of strategically positioning themselves with regard to electric and hydrogen mobility, in particular whether, when and how they should enter this market. The Electric and Hydrogen Mobility Scenarios

provide a quantitative foundation for this.

- Market entry into the electric vehicle charging business

Our data provides the quantitative basis for evaluating potential business areas, strategically planning market entry and building expertise. In combination with our consulting services Several analyses have already been conducted, supported by our consulting services.

Learn more about the projects:

- [Entry into the electric vehicle charging market, for Migrol](#)

Recommendation:

For the evaluation of a market entry into the electric charging business we recommend our data packages [Traffic](#), [Energy](#) and [Charging infrastructure](#).

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We will be happy to [advise you](#) in more detail on these topics and support you in developing your specific concepts and measures.

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For parking garages and real estate portfolios

Managers of parking garages, as well as real estate portfolios, need smart solutions for timely electrification of parking spaces.

- Demand development for electric parking

The Electric and Hydrogen Mobility Scenarios can be used as a foundation for estimating trends in the demand and help you equip your properties for the future.

Learn more about the projects:

- [E-mobility business models for real-estate management company](#)

Recommendation:

We recommend our data packages [Traffic](#), [Energy](#) and [Charging infrastructure](#) for the evaluation of the demand development for electric parking spaces.

Have we sparked your interest? Order the data packages for your company easy online.

[Order now](#)

We will be happy to [advise you](#) in more detail on these topics and support you in developing your specific concepts and measures.

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