

klimaaktiv



mobil

ELECTRIC MOBILITY AS CONTRIBUTION TO SUSTAINABLE TRANSPORT

**Workshop: Sustainable Energy in Transport and Public Sectors
in South-East Europe, Vienna, 14 November 2016**

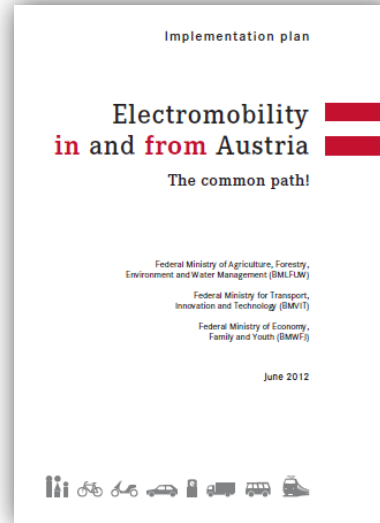
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bmlfuw.gv.at



E-MOBILITY STRATEGIES

Austrian Strategy on Electric Mobility, 2012



Vienna, 2015-2025



Province of Vorarlberg, 2015-2020

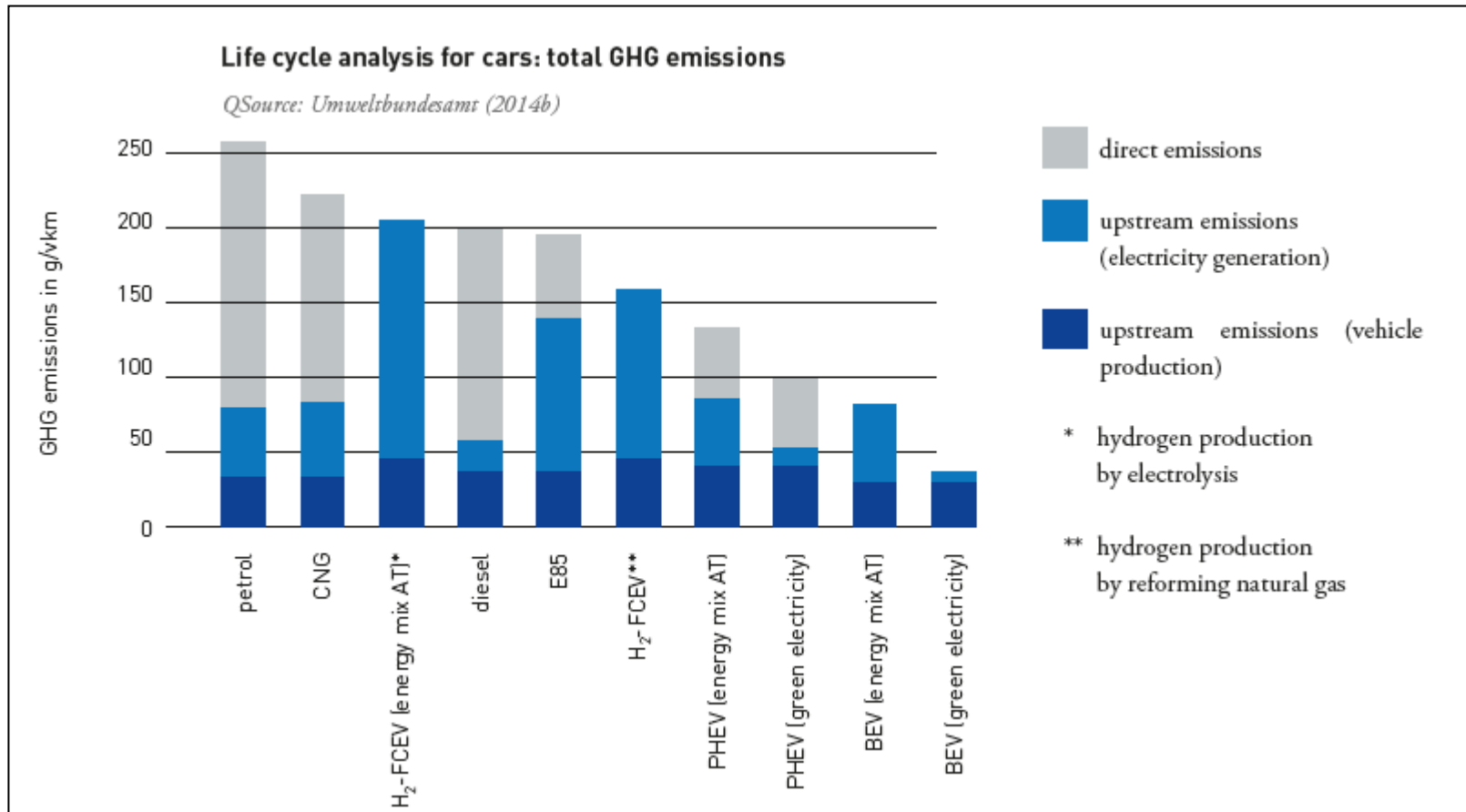


Province of Lower Austria, 2014-2020



LIFE CYCLE ANALYSIS

Up to 80% CO2 reduction with e-cars using energy from renewable sources!



FRAMEWORK FOR ELECTRIC VEHICLES

- no tax depending on motor vehicles fuel consumption
- no annual motor related insurance tax
- no value added tax for companies and tax advantages for employees
- subsidies for vehicles and charging infrastructure for companies and municipalities
- free parking in some areas

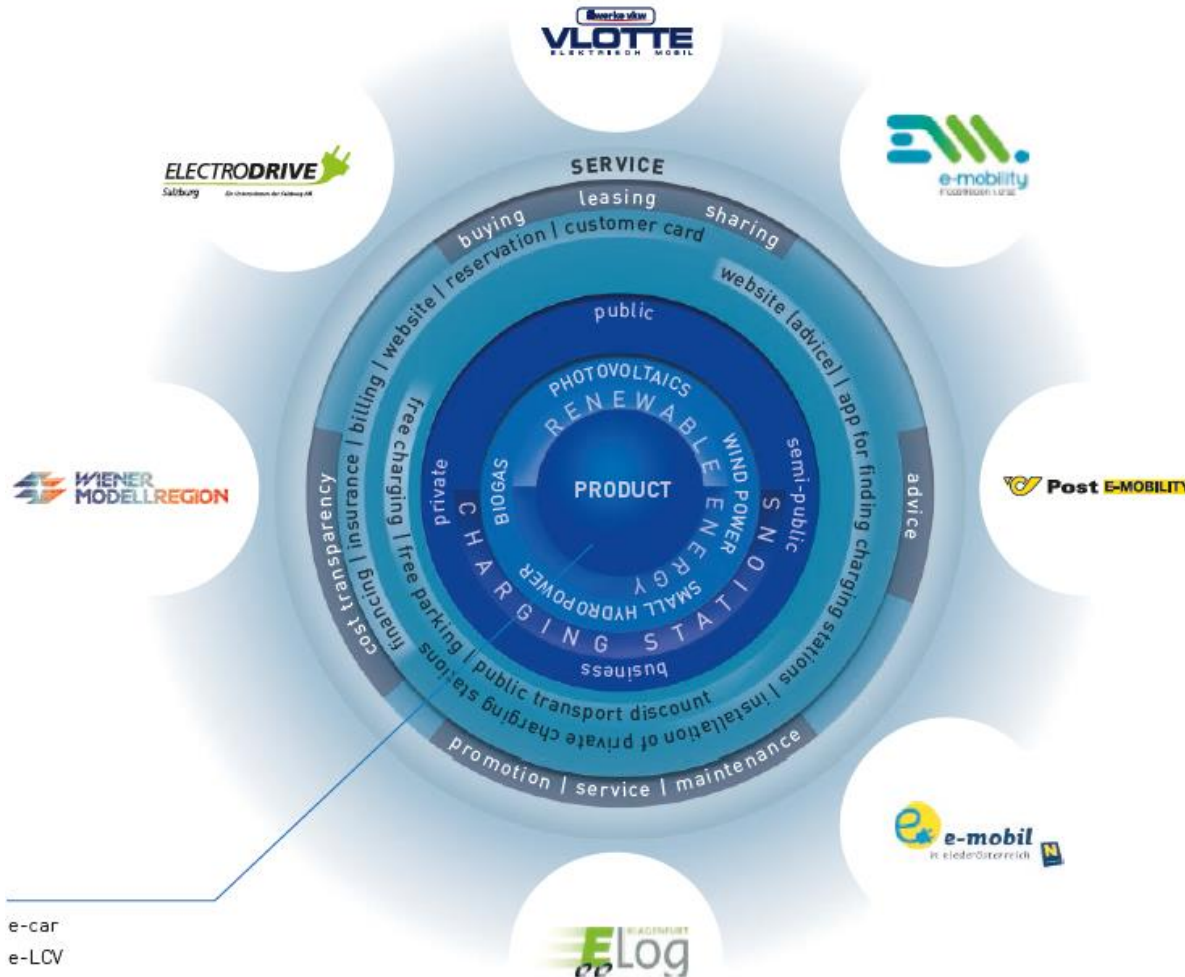
7 MODEL REGIONS



- Vorarlberg (VLOTTE, since 2008)
- Salzburg (ElectroDrive Salzburg, since 2009)
- Vienna (e-mobility on demand, since 2010)
- Graz (e-mobility Graz, since 2010)
- Lower Austria (e-pendler in niederösterreich, since 2011)
- Carinthia (E-LOG Klagenfurt, since 2011)
- Vienna (E-Mobility Post, since 2011)



DIFFERENT SCOPES IN THE MODEL REGIONS



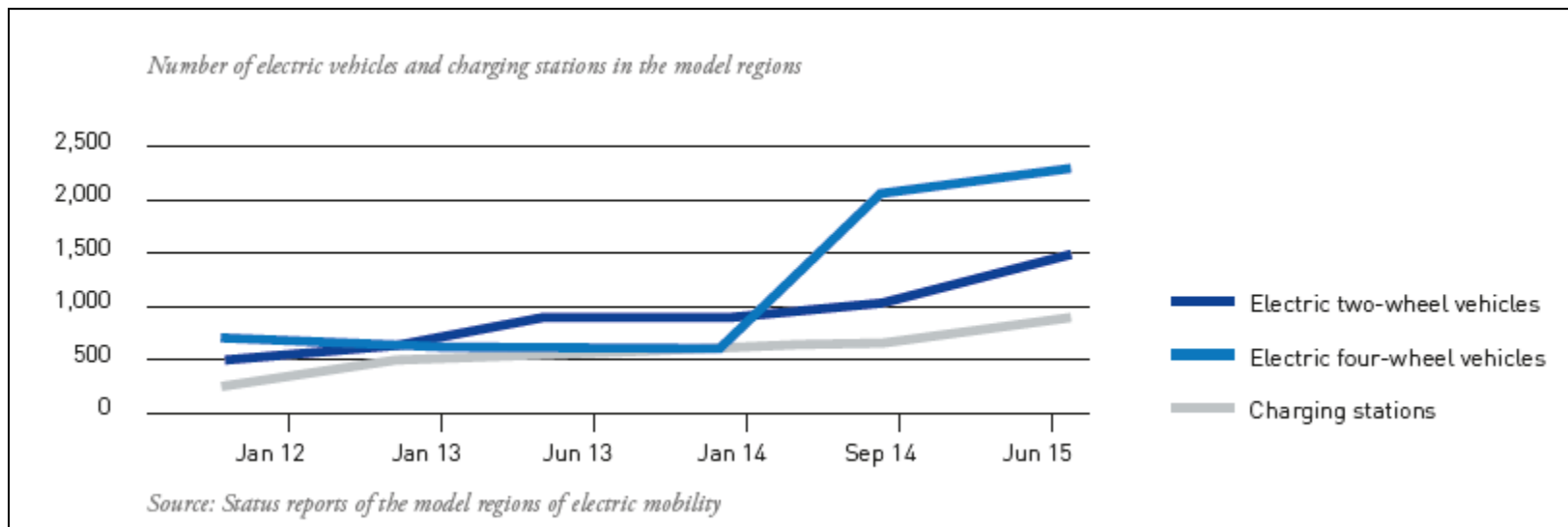
- e-car
- e-LCV
- e-bus
- e-bikes
- e-scooter
- e-segway
- e-taxi
- e-train

Source: Spirit Design Innovation and Brand GmbH (2013)
(Graphic design floorfour)

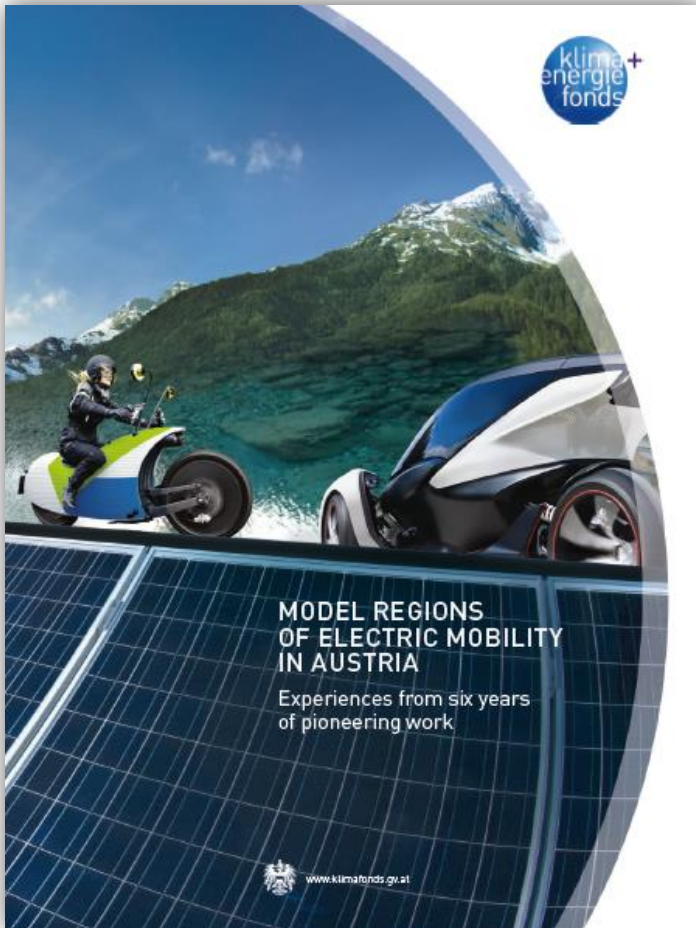


RESULTS FROM THE MODEL REGIONS

	Interim result	Target
Electric two-wheel vehicles	2,314	2,117
Electric four-wheel vehicles	1,429	1,771
Charging stations	836	897



REPORT AVAILABLE!

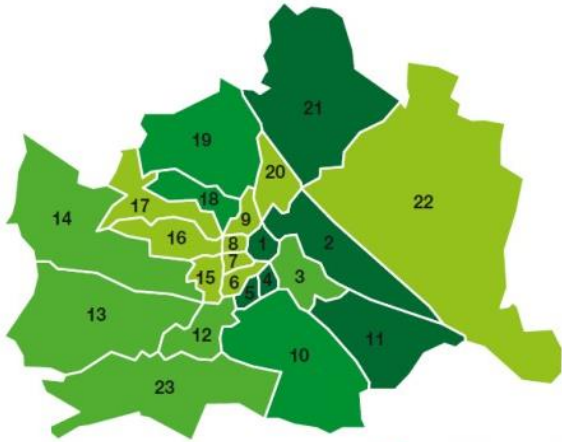


MODEL REGIONS OF ELECTRIC MOBILITY IN AUSTRIA

Experiences from six years of pioneering work

www.e-connected.at

AUSTRIAN POST



1.053 Rayone in Wien:
 Zu Fuß: 827
 Mit Fahrrädern: 8
 Mit Mopeds: 133
 Mit PKW: 85

● BIS ENDE 2013 GRÜN
 ● BIS ENDE 2014 GRÜN
 ● BIS ENDE 2015 GRÜN
 ● BIS ENDE 2016 GRÜN

E-Mobility program (2012-2016):

- 300 e-cars, 300 e-scooters, 500 pedelecs
- by the end of 2016 all letters in Vienna will be delivered without using any combustion engine!
- all energy for electric vehicles is provided from renewable sources!



ELECTRIC BUSES IN VIENNA

- two electric bus lines (2A, 3A) in the city center of Vienna (since 2013)
- the buses use the tram network's power lines for charging via a pantograph for 10 to 15 minutes at the end of the line
- overnight, the batteries are charged slowly at the bus depot



Ladestationen

Zelinkagasse 3A

Schwarzenbergstraße 2A

© Wiener Linien/ Thomas Janzen



ELECTRIC CAR SHARING



- electric car sharing service “EMIL” in Salzburg
- The annual average use of EMIL for all stations is 16.7 percent. The best locations have up to 45 percent use.
- The users are mostly aged between 25 and 55 years and predominantly male.
- it takes a certain time – at least a year – for users to start planning their mobility around a new service station
- www.fahre-emil.at

E-MOBILITY IN DRIVING SCHOOLS



- test riding of electric vehicles is crucial to convince people
- 90,000 learner drivers every year in Austria
- target: all learner drivers experience an electric vehicle during their driving school education
- information about the pilot project: www.pilot-emobility.at

CERTIFICATE FOR DRIVING SCHOOLS

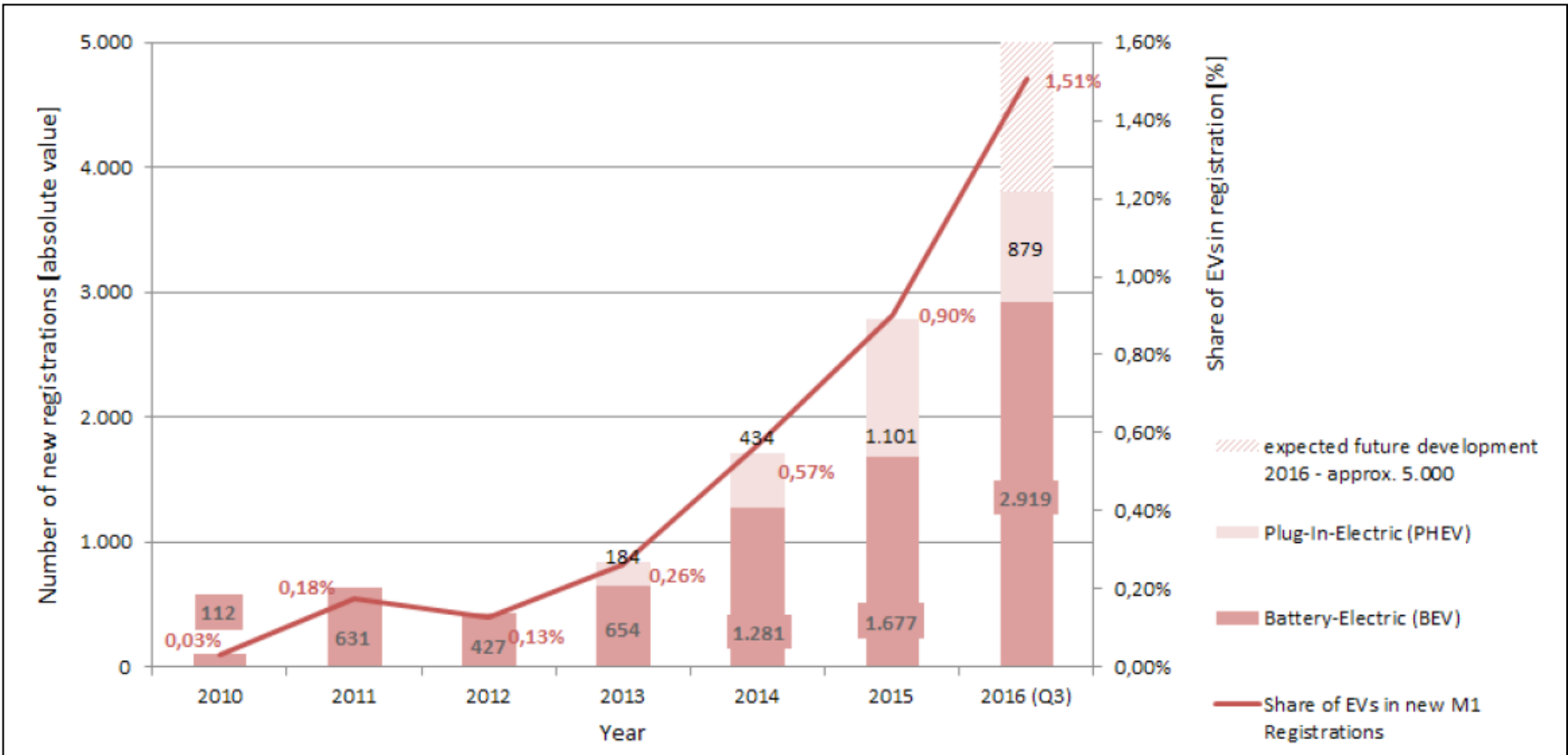


roadstars
die Fahrschule am Seitenringplatz

So findest du zum Übungsparkplatz und zur Fahrzeugkunde:
 Fahre vom Jakominiplatz mit dem GVB Bus Linie 31, 32 oder 33 zur Haltestelle Don Bosco.
 Gehe von der Haltestelle ein kurzes Stück Richtung Innenstadt zurück und bei der ersten
 Ampel links in die Wetzelsdorferstrasse.
 Die Firma Denzel erreicht Du circa nach 5 Minuten - genaue Adresse des Übungsgeländes
 - BMW Denzel Wetzelsdorferstrasse 35

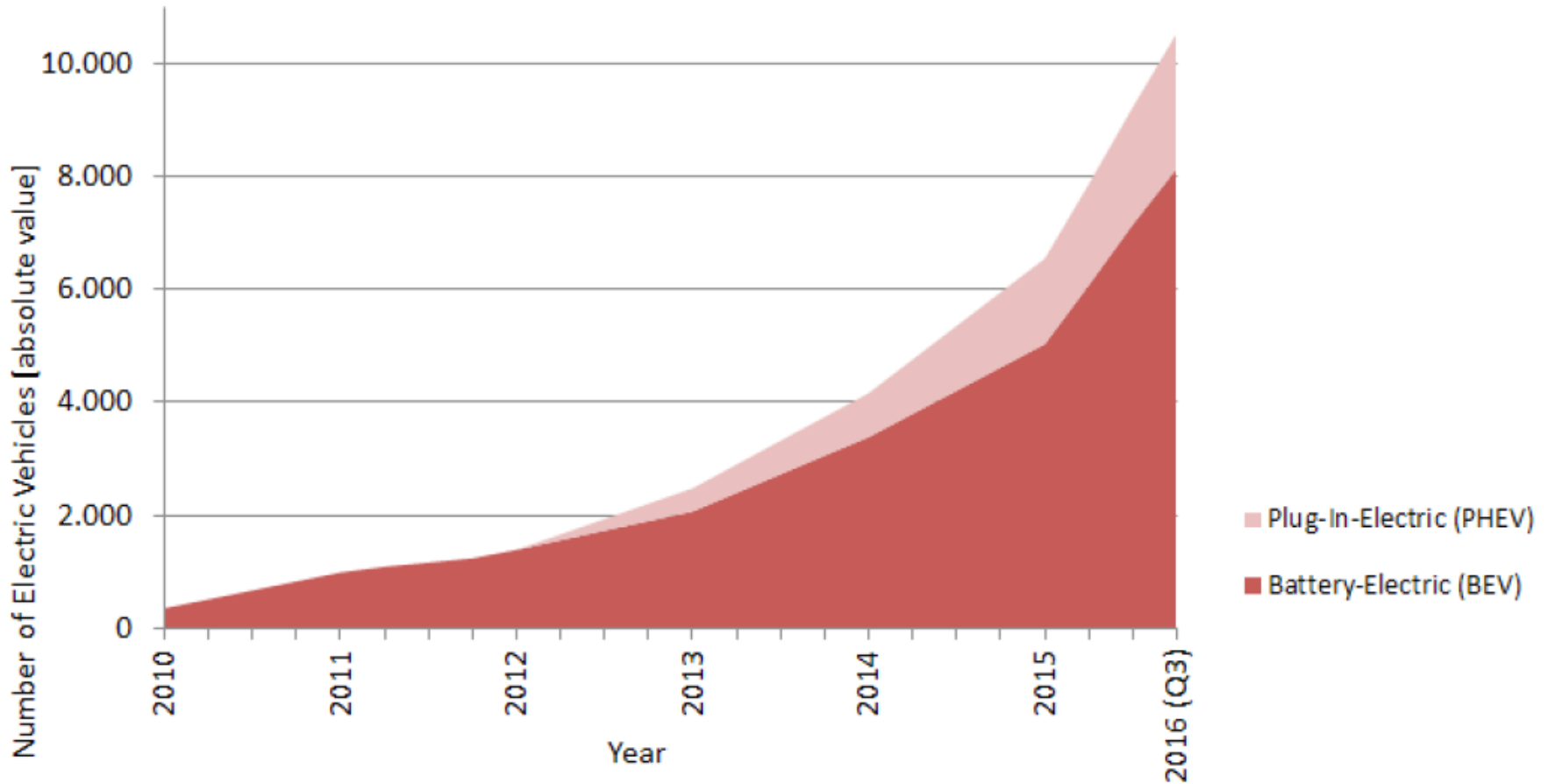


NEW ELECTRIC VEHICLES REGISTRATIONS IN AUSTRIA



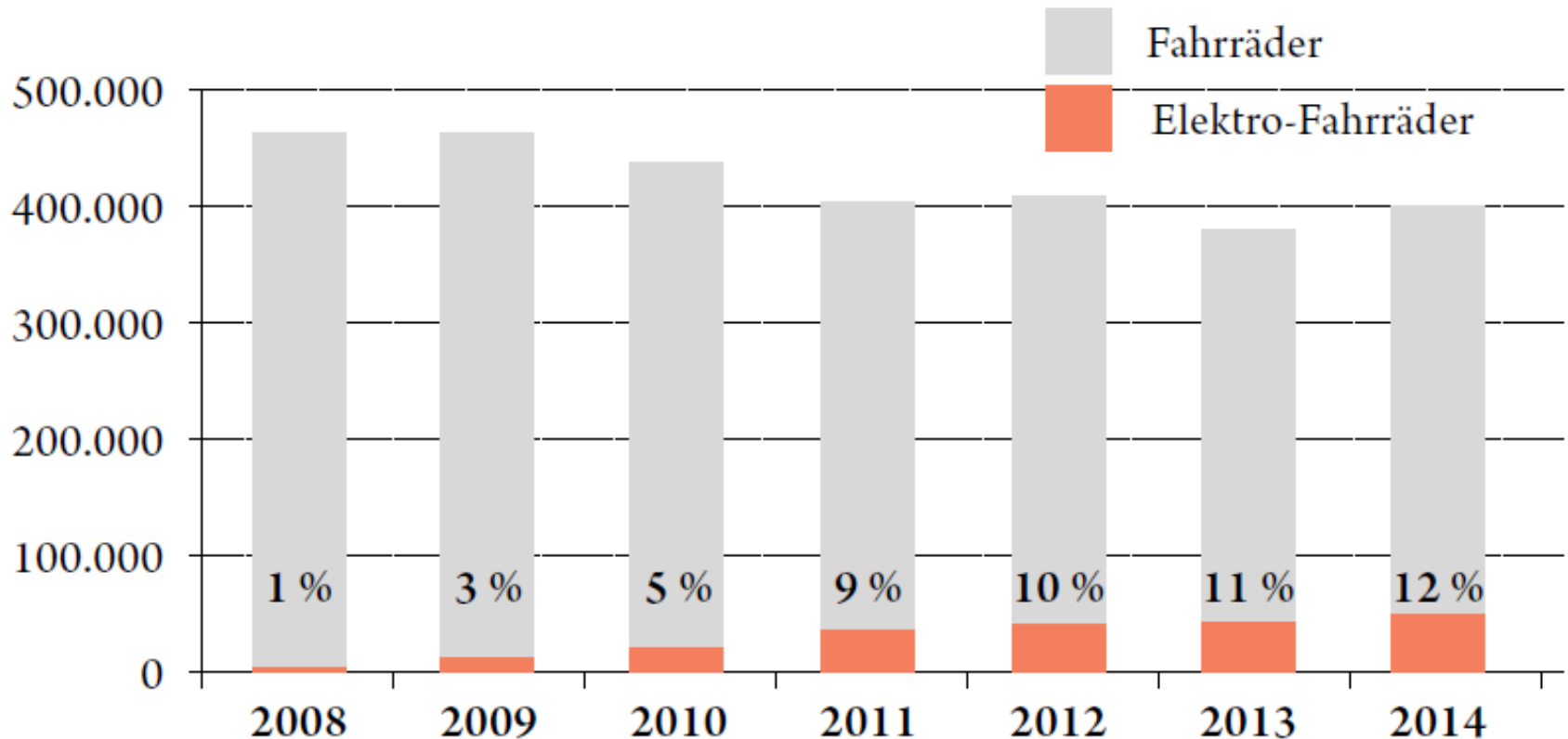
Source: Austriatech

ELECTRIC VEHICLES POPULATION IN AUSTRIA



Source: Austriatech

BOOM OF ELECTRIC BICYCLES SALES IN AUSTRIA



BEST PRACTICE BIODIESEL

- Austrian cargo forwarding company
- 220 trucks from Scania with biodiesel engines
- trucks fulfill pollutant limit standard Euro 6 and are approved for operation with 100 percent biodiesel
- "With a total mileage of 150,000 kilometers per year, the cost reduction per truck amounts up to 4,000 euros"



BEST PRACTICE BIO-CNG

- Albus: Austrian bus company
- use Bio-CNG made from field grass
- 37 Bio-CNG buses
- annual CO₂ reduction of 2.400 tons





KLIMAAKTIV MOBIL

- promotes the transition to green mobility and provides a range of attractive services supporting CO₂-reducing mobility projects.
- is an initiative of the Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management (BMLFUW)


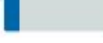
KLIMAAKTIV MOBIL FINANCIAL SUPPORT PROGRAMME

Million euro rounded, including Climate and Energy Fund support, aggregate figures 2007-2015



Electromobility and alternative fleets

ministerial financial support:	21.6 mn €	
investment volume:	approx. 130 mn €	



Mobility Management

ministerial financial support:	23 mn €	
investment volume:	approx. 170 mn €	

Bicycle traffic

ministerial financial support:	35 mn €	
investment volume:	approx. 210 mn €	

Total

ministerial financial support:	79.6 mn €	
investment volume:	approx. 500 mn €	

Source: BMLFUW 2016



Visit the klimaaktiv project partners in Austria under www.klimaaktivmobil.at/maps

KLIMAAKTIV MOBIL

→ 6,600 projects reduce CO2 emissions in Austria by 610,000 tonnes/year!

NUMBER OF KLIMAAKTIV MOBIL PROJECTS

years 2005-2015, aggregate figures

years	Number of klimaaktiv mobil projects, rounded
2005	20
2007	250
2009	1,000
2011	2,300
2013	4,900
2015	6,600

Source: BMLFUW 2016

HOW KLIMAAKTIV MOBIL PROJECTS REDUCE CO₂-EMISSIONS

tonnes CO₂/year, aggregate figures

years	CO ₂ -reduction, rounded
2005	8,000
2007	140,000
2009	330,000
2011	470,000
2013	570,000
2015	610,000

Source: BMLFUW 2016

THANK YOU FOR YOUR ATTENTION!

klima**aktiv** ist die Klimaschutzinitiative des Bundesministeriums für Land- und Forstwirtschaft, Umwelt und Wasserwirtschaft. Seit 2004 deckt klima**aktiv** mit den Themenschwerpunkten „Bauen und Sanieren“, „Energiesparen“, „Erneuerbare Energie“ und „Mobilität“ alle zentralen Technologiebereiche einer zukunftsfähigen Energienutzung ab. klima**aktiv** leistet mit der Entwicklung von Qualitätsstandards, der aktiven Beratung und Schulung, sowie breit gestreuter Informationsarbeit einen wichtigen Beitrag zum Klimaschutz. klima**aktiv** dient dabei als Plattform für Initiativen von Unternehmen, Ländern und Gemeinden, Organisationen und Privatpersonen.



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