Regulatory landscape for electric mobility Key strategies, acts, and statutory instruments

	C European	level		Nation	allevel	
	Directorate-General for Climate Action 🛛 🏦 🏊 🔮		Federal Government 🚊 🚅 🗫	y	Federal Government 🕂 🚅 🗫 븃	
gies	EU 2030 climate & energy framework	Paris Agreement	Climate Action Plan 2050		The Federal Government's Electric Mobility Programme	
Strategies	Directorate-General for Mobility & Transport 🛛 🚅 🖓 🚌 븃	European Commission 🛛 🥂 🚅 🗫 讨	Federal Government 🚊 🚅 😪 讨		Federal Government, BMVI 🛛 🏦 🚅 🗫 븃	
Ś	White Paper on transport	The European Green Deal	Climate Action Programme 20	030	Charging infrastructure maste	er plan
	Directorate-General for Mobility & Transport 🛛 🚅 븃	DG for Internal Market, Industry, Entrepreneurship and SMEs	BMU	BMWi 🚅 ଟ	BMWi 🚅 🔆	BMVI -
	AFI Directive – 2014/94/EU	Regulation on the approval of motor vehicles – 2018/858/EU	Batteries Act (BattG)	Energy Industry Act (EnWG)	Charging Station Ordinance (LSV)	German Road Traffic Re- gulations (StVO)
BS	Directorate-General for Climate Action	Directorate-General for Environment 👖 🔭 😽	BMU	BMWi <u></u> #	BMWi <u></u>	BMVI °
Regulations/Directive	Regulation on fleet-wide CO ₂ performance standards – 2019/631/EU	Air Quality Directive – 2008/50/EG	Federal Immission Control Act (BImSchG)	Renewable Energy Sources Act (EEG)	Metering Point Operation Act (MsbG)	German Road Vehicles Registration and Licensing Regulations (StVZO)
	Directorate-General for Energy & Transport 🛛 🌋 🚅 😪 븃	Directorate-General for Mobility & Transport	BMU Press J	BMU 🚊 🐾 븃	BMWi 🚊 🔮	BMF 🕂 🔆
	Renewable Energy Directive – 2009/28/EG Renewable Energy Directive II – 2018/2001/EU	Clean Vehicles Directive – 2019/1161/EU	Compulsory marking of charging points in accordance with the 10thCompensating the biofuels quota with power for electric vehiclesOuting the lement in the Foderalwith power for electric vehicles	Measures and Verification Act (MessEG)	Electricity Duty Act (StromStG)	
	Directorate-General for Energy 🚑 😴	Directorate-General for Energy & Transport	Ordinance Implementing the Federal Immission Control Act (10th BImSchV)	within the framework of the 38th BlmSchV	BMWi <u></u>	BMF 🕂
	Directive on the energy performance of buildings – 2018/844/EU	Driving Licence Directive – 2006/126/EG	BMU, BMVI 🚅 🗫	BMVI °	Low-Voltage Connection Ordinance (NAV)	Ordinance Implementing the Electricity Duty Act (StromStV)
			Car Sharing Act (CsgG)	Driver Licensing Regulations (FeV)	BMVI 🚅 🗫	BMJV 🚑 😲
			BMF Contraction	BMF Providence	Road Traffic Act (StVG)	German Civil Code/rent law
			Income Tax Act (EStG)	Motor Vehicle Tax Act	BMVI ở	BMJV 🚑 븃
Local authority level		BMVI, BMU - BMWi T	Fast Charging Act	Apartment Ownership Act		
			BMVI, BMU 🖨 🗫	BMWi <u>*</u> * Price Indication Ordinance	(SchnellLG)	(WEG)
			(EmoG)	(PAngV)	BMWi [®]	BMWi 🚅 🔆
S	Zoning plans & urban development contracts	Local transport plan				Electric Mobility Infra- structure in Buildings Act
Statutes/plans					senger Cars (Pkw-EnVKV)	(GEIG)
utes	Green City master plan	Parking statutes				
Sta				Federal s	tate level	

Zoning plans & urban development contracts	Local transport plan
Green City master plan	Parking statutes
Climate change strategies	Regulations on permits and fees for special use of public roads
Air quality action plans	Traffic development plan

As at: November 2021

Legend:

Energy sector

🚅 Parking

Federal state level

⇔ *		
Parking regulations	Climate change legislation	Federal State Region Development Plans
	₩	
University and vocational school regulations	Federal state building regulations	Mobility legislation

State Regional nent Plans

Roads legislation

Laws/regulations

Nationale LEITSTELLE Ladeinfrastruktur



Local public transport le-gislation

Content: Noerr

Laws/regulations

Strategies

Regulatory landscape for electric mobility

Key strategies, acts, and statutory instruments

	C Europea	n level		
	EU 2030 climate & energy framework	Paris Agreement		
2	In its Communication of 22 January 2014, the European Commission set out a policy framework for climate and energy in the period from 2020-2030. The Communication states that by 2030, greenhouse gas emissions across sectors are to be reduced by 40%, compared with 1990 levels. Electric mobility is one of the measures necessary to achieve this.	On 12 December 2015, the European Union and the Federal Republic of Germany, within the Paris Agreement, undertook to limit global warming to 2 degrees Celsius as compared with pre The Agreement was transposed with the Act on the Paris Agreement (Federal Law Gazette, 2010 targets included in the Agreement necessitate the electrification of transport sector.		
	White Paper on transport Directorate-General for Mobility & Transport	European European Commission 査		
5	In 2011, the European Commission presented its White Paper on transport, the 'Roadmap to a Single European Transport Area'. The European Commission's objective is to work towards a competitive and resource-efficient transport system. In the White Paper, the European Commission outlines numerous measures, some of which pertain to electric mobility, its promotion and implementation.	With its European Green Deal, the EU has set itself the objective of making Europe the world's fir continent by 2050. In the transport sector, air pollutant emission limits are to be tightened for vehi combustion engines and alternative fuels are to be supported by paving the way towards zero and in particular by significantly expanding the charging post infrastructure to meet the objectiv an Green Deal.		
	AFI Directive – 2014/94/EU The Directive of 22 October 2014 contains provisions on the deployment of alternative fuels infrastructure (AFI). It	Regulation on the approval of motor vehicles Directorate-General for Intern Industry, Entrepreneurship a - 2018/858/EU - 2018/858/EU		
	contains technical specifications as well as operational requirements, for example concerning payment proces- ses. In addition, a National Policy Framework for the commercialization of alternative fuels is to be developed in accordance with the Directive. The Directive was transposed into German law with the Charging Post Regula- tions, which contain binding provisions on publicly accessible charging infrastructure. After several amendments in 2018 and an evaluation in 2021, the Directive is to be updated comprehensively.	The Regulation contains the relevant technical requirements for the issuance of type app vehicles. It replaced Framework Directive 2007/46/EC, which was applicable until 1 September 3		
	Regulation on fleet-wide CO2 performance standards – 2019/631/EU Directorate-General for Climate Action	Air Quality Directive – 2008/50/EG Directorate-General for Environment		
	The new EU Regulation setting CO2 emission performance standards for new passenger cars and light commer- cial vehicles has been in force since 1 January 2020 and replaced previous provisions. From 1 January 2021 until 2035, the Regulation establishes the currently applicable fleet-wide CO2 emission standards, which have to be reduced gradually until 2035, as well as penalties for excess emissions. This makes increasing electrification of drivetrains necessary and more attractive.	The European Air Quality Directive established concrete limit values for pollutants, which must In the case of exceedance, the Directive further regulates that air quality action plans with re must be prepared. The Directive was transposed in Germany with the Federal Immission Contr often include measures for the promotion of electric mobility.		
	Renewable Energy Directive – 2009/28/EG	General Clean Vehicles Directive – 2019/1161/EU		
	Renewable Energy Directive II – 2018/2001/EU The Renewable Energy Directive 2009/28/EC provides, among other things, for a 10 percent share of gross final energy consumption of the transport sector to be met by energy from renewable sources by 2020. According to the whereas clauses of the Directive, the promotion of electric mobility is an important instrument serving this purpose. The Renewable Energy Directive ceased to be in force on 1 July 2021. It is followed by Directive 2018/2001/EU (Renewable Energy Directive II), which was to be transposed into national law on 30 June 2021 and which stipulates that Member States oblige fuel suppliers to ensure that the share of renewable energy within the final consumption of energy in the transport sector is at least 14% by 2030.	The objective of the Directive is to promote the procurement of low- and zero-emission road procurement tenders. Besides purchasing vehicles, it now includes also options such as hire-purchase. Procurement entities are to take into account energy efficiency and environme procuring new road vehicles. The Directive was transposed into national law in the German nati regulations.		
	Directive on the energy performance of buildings – 2018/844/EU	Driving Licence Directive – 2006/126/EG Directorate- Energy &T		
	The Directive is to reduce the amount of energy needed to meet the energy demand associated with typical use of that building. Moreover, the buildings sector is to decarbonise the transport sector through the amendment of national construction regulations thereby facilitating the construction of necessary infrastructure for smart charging of electric vehicles at residential and non-residential buildings. The Directive was transposed into national law with the entry into force of the Electric Mobility Infrastructure in Buildings Act (GEIG).	The European Driving Licence Directive lays down driving licence categories, among other to issues of qualification and driving theory tests. In accordance with the Directive, drivers are all motor vehicles of up to 4.25 tonnes with a driver licence for passenger cars, if certain condition Directive was transposed in Germany into the German Driver Licensing Regulations.		

Local authority level

Zoning plans and urban development contracts 🚽 🖘 😗	Local transport plan 🗧 🤤 '혁
The local authority fleshes out its urban development and planning within the framework of zoning plans (general- ly binding statutes) and urban development contracts (individual contracts). These documents contain different provisions stipulating the type and scope of structural use for specific areas, which can also contain electric mobility requirements, in particular concerning the erection of charging infrastructure.	On the basis of federal states' local public transport acts, municipalities or municipal planning associations ad local transport plans, which shape local public transport in the relevant region. These plans contain projects a measures for the electrification of public transport.
Green City master plan 🖨 😁	Parking statutes 🛱 🚘
At the 'National Diesel Forum' the decision was made that the Federal Government will support municipalities with high levels of nitrogen dioxide pollution in shaping sustainable and zero-emission mobility. To this end, 64 Green City Plans for air quality management have been prepared, which received funding as part of the '2017-2020 Immediate Action Programme for Clean Air'. One of the key measures of the master plans is the electrification of transport.	In parking statutes, which are based on the relevant federal state building regulations, municipalities can set binding requirements for construction projects concerning the establishment of parking spaces, for example granting of privileges to "electrified parking spaces".
Climate change strategies 🚔 🖘	Regulations on permits and fees for special use of public roads 🚽 🖘
Since the Federal Government's 2008 National Climate Initiative, funding has been provided to municipal energy and climate protection strategies. These strategies identify specific measures of the municipalities for meeting climate change mitigation targets. The strategies are part of municipal environmental protection and pertain to electric and sustainable mobility.	Within the scope of regulations on permits and fees for special use of public roads, municipalities can control standardise the granting of permits for special use of roads at municipal level. The operation of charge infrastructure in the public road environment constitutes a special use and requires permission.
	Troffic development plan
Air quality action plans Based on Section 47 of the Federal Immission Control Act – and implementing European Directives – an air quality action plan provides a proposal for specific measures towards improving the quality of air in a local community. These measures include restrictions of rail and road transport, for example bans on diesel vehicles or requirements for the promotion of zero-emission vehicles, in particular electric vehicles.	Traffic development plan

Statutes/plans

s/Dir

Legend:

🚊 Energy sector 🚽 Parking 🍡 Vehicle 讨 Charging infrastructure

		Natio	nal level		
₩ 🕰 🚠	Climate Action Plan 2050	Federal Government 👖 🚅 🏤 ,	The Federal Government's Electric Mobility Programme	Federal Government 🚆 🚚 🗫	
the framework of the pre-industrial levels. 2016 II, pp. 1082). The	By adopting the Climate Action Plan 2050 at the end of 2016, the Federal G which was required in the Paris Agreement. By 2030, the transport sector will require a high market penetration of electric mobility in road transport	is to reduce emissions by 40-42 percent compared with 1990 levels. This	In May 2011, the Federal Government presented its Electric Mobility Prog the Federal Government's objectives in this area. The objective was to m by 2020.		
	Climate Action Programme 2030	Federal Government 🏦 🚅 🗫 😽	Charging infrastructure master plan	Federal Government, BMVI	
's first climate-neutral vehicles with internal ero emission mobility ectives of the Europe-	With its Climate Action Programme 2030, the Federal Government seeks to ting the purchase of electric vehicles as well as deploying public or private to be installed by 2030.	o drive the transition to electric mobility. This is to be achieved by promo-	The charging infrastructure master plan contains a comprehensive package of measures for the promotion and deployment of charging inf ture in Germany. Support for private charging stations as well as amendments of rent and condominium law derive from the master plan.		
ternal Market, ip and SMEs	Batteries Act (BattG)	Renewable Energy Sources Act (EEG)	German Road Vehicles Registration and BMVI 🐾	Metering Point Operation Act (MsbG) BMWi <u>漢</u>	
The requirements of the European Ba with the Batteries Act. The objective are disposed of in an environmentally	The requirements of the European Batteries Directive are transposed with the Batteries Act. The objective is to ensure that waste batteries are disposed of in an environmentally friendly way. The Batteries Act contains requirements to be met by electric-vehicle batteries.	The Act is to promote the development of technologies for power generation from renewable sources and achieve cost reductions. The share of the power supply generated from renewable sources is to be increased.	Licensing Regulations (StVZO) The Road Vehicles Registration and Licensing Regulations contain the relevant technical requirements for individual vehicle approvals by local approval authorities, particularly design and operating rules. They further include the obligation to carry out regular technical	The Act governs in particular installation and operation of sn meters and how measured values are to be communicated within energy sector. It contains sector-specific data protection rules for energy sector including electric mobility.	
	Federal Immission Control Act BMU Carbon Control Act	Energy Industry Act (EnWG) BMWi 査 サ	inspection of motor vehicles (main inspection).		
al 🏦 🗫 😁	The purpose of the Act is to protect humans, animals, plants, soil, water, atmosphere as well as cultural and other assets against harmful environmental impacts. This includes emissions from transport. The Act contains the obligation to reduce transport emissions by means of	The Act defines the framework conditions for a safe, reasonably priced, consumer-friendly and environmentally sustainable supply of power and gas. In addition, the Act governs electricity and gas supply networks to guarantee effective and undistorted competition. The Act defines, among other things, operators of charging points as end consumers, thus ensuring that the downstream relationship with the	Electricity Duty Act (StromStG)BMFImage: Comparison of the state of the sta	Measures and Verification Act (MessEG) BMWi The Act contains requirements for the commercial supply of commer goods. It also comprises the commercial supply of power including power for electric vehicles.	
remedial measures htrol Act. The plans	air quality action plans when limit values are exceeded within a municipality. One measure is the use of electric mobility.	vehicle user is not subject to strict regulation.	Ordinance Implementing the Electricity BMF 査 学 Duty Act (StromStV)	Electric Mobility Infrastructure in BMWi 🚍	
eraldirektion lität & Verkehr d vehicles in public	Compulsory marking of charging points in accordance with the 10th BlmSchVIn accordance with the with the 10th Ordinance Implementing the Federal Immission Control Act, charging points must be marked with	Charging Station Ordinance (LSV)BMWiProvisionsThe provisions of EU Directive 2014/94/EU are transposed with the Charging Station Ordinance. It establishes binding requirements for the deployment and operation of publicly accessible charging	This Ordinance fleshes out and implements legal provisions of the Electricity Duty Act. The Ordinance facilitates the paying of taxes on electricity purchased for electric vehicles.	The Act advances the development of charging and cable infras ture in the buildings sector. It lays down requirements for the fu charging and cable infrastructure to be installed when new build are built or residential or non-residential buildings undergo r renovation.	
as leasing, rent or nental impact when ational procurement	information on the connection established, the performance of the charging point as well as further information for consumers.	rastructure. This concerns in particular consumer needs and user endliness, for example, by introducing a standard payment system.	Price Indication Ordinance (PAngV)	German Civil Code/rent law	
ote-General for & Transport er things, as well as e allowed to operate	Compensating the biofuels quotaBMUImage: Compensating the biofuels quotawith power for electric vehicles within the 38th BlmSchVIn accordance with the framework of the 38th BlmSchV, in the future, electric power taken from the network to be used for road vehicles with electric drivetrains can be counted towards the greenhouse gas quota, in particular towards the share of biofuels, to achieve compliance.	Driver Licensing Regulations (FeV)BMVIThe Driver Licensing Regulations contain all relevant provisions for the operation of motor vehicles under driver licensing legislation. A trans- position of European legislation, these Regulations define driving licence categories and contain special provisions for the operation of specific electric vehicles in road haulage, which have a higher weight due to alternative drivetrains - such as battery powered vehicles.	The objective of the Ordinance is to guarantee the 'price reflects cost' principle by providing correct and complete use information. It also aims to strengthen the position of consumers vis-à-vis the trade and industry, while at the same time improving overall competition by means of optimum price comparison opportunities. Section 3 of the Price Indication Ordinance (§ 3 PAngV) also applies to power for charging electric vehicles. In accordance with the Ordinance, the correct, comprehensible and transparent indication of power for charging is in kilowatt hours (kWh).	Sections 535 ff of the German Civil Code contain civil law rules for la agreements. In accordance with these provisions, lessees can g rally only make structural changes to the leased property with approval of the lessor. In the future, however, the installation charging infrastructure in leased property will be facilitated: In acc dance with Section 554 of the German Civil Code, lessees gene have the statutory right that the lessor shall allow structural char to the leased property that serve the purpose of charging ele vehicles.	
litions are met. The	Car Sharing Act (CsgG)	Road Traffic Act (StVG)	Ordinance on Energy Consumption BMWi	Apartment Ownership Act (WEG) BMJV 🚚	
	The Car Sharing Act stipulates the granting of privileges to shared use vehicles to promote their use in order to reduce impacts of private motorized transport that are harmful to the climate and the environ- ment. It contains provisions governing car sharing with electric vehicles.	The Road Traffic Act contains the legal conditions for road transport in Germany. It forms the basis for ordinances governing road transport. Since the Electric Mobility Act was adopted, it has been possible to take measures to grant privileges to electric vehicles in road transport.	Labelling for Passenger Cars (Pkw-EnVKV) Based on the Ordinance on Energy Consumption Labelling for Passen- ger Cars, the fuel economy label for new passenger cars provides information on the carbon efficiency of vehicles. Electric vehicles receive good results on the carbon efficiency scale and raising aware- ness of these results is expected to boost sales of electric vehicles.	The Apartment Ownership Act contains the legal requirements organising commonhold associations and taking decisions in the bodies. The Apartment Ownership Modernization Act, which rec- entered into force, will facilitate the installation of electric vel- charging infrastructure in owner-occupied dwellings in the fu- Owners have the statutory right to change common property	
	Income Tax Act (EStG) BMF 🤧 😁	Motor Vehicle Tax Act (KraftStG) BMF 🐾		install charging infrastructure.	
	The Act governs the levying of income tax on earned income. It contains privileges and tax relief for granted benefits-in-kind when electric vehicles and charging infrastructure are used.	This Act governs the tax to be paid for motor vehicles. It contains tax relief for electric vehicles from the motor vehicle tax.	Fast Charging Act (SchnelILG)BMVIThe Fast Charging Act provides the statutory basis for the Federation to initiate the Europe-wide call for tenders for a network of a total of	Low-Voltage Connection Ordinance BMWi X (NAV) The Ordinance governs the general conditions for grid connection	
associations adopt ontain projects and	Electric Mobility Act (EmoG)BMVI, BMUImage: Image: Imag	German Road Traffic Regulations (StVO)BMVIPCThe Regulations contain mandatory requirements for road transport. The implementation of the legislative proposal for the Electric Mobili- ty Act also created scope for granting privileges to electric vehicles.	1,000 high-power charging points throughout Germany. This ensures that an essential contribution is made towards achieving a reliable and user-friendly charging infrastructure network, which is consis- tent with demand and provides universal coverage, in particular for medium- and long-distance transport in Germany.	the low-voltage range. Network operators are required to connect consumers to the low-voltage network. Network operators are t informed about charging equipment for electric vehicles before equipment is put into service. If the sum of the rated capacity is a 12 kilovolt-amperes per electrical installation, the installation is sul to approval by the operator (reservation).	
ipalities can set out	sions.				
A Province			state level		

_ • • • • •

📲 , 🐈

Federal State Regional Development Plans Federal State Regional Development Plans or Federal State Regional Local public transport acts of the federal states set out how states Development Programmes govern regional planning at the federal state level. The plans sometimes also include rules for the promotion of electric mobility and the associated infrastructure.

Mobility legislation

2018. It contains measures for an environmentally, socially and climate friendly mobility. The Act lays down requirements for the electrification of local public transport and can provide the basis for further promoting electric mobility.

Parking regulations

electric mobility.

out rules concerning the construction and operation of parking spaces,

either in the form of independent parking regulations or included in

rules for electric mobility, in particular for the electrification of parking spaces and the mandatory installation of charging infrastructure.

University and vocational school regulations 🏦 🚑 🏣 븃

University and vocational school regulations of the federal states

govern the curriculum content of the individual state-owned universi-

ties and vocational schools. Many federal states have already establis-

hed relevant educational programmes to train specialist workers for

existing regulations. These rules and regulations also often include

≓ 🖑

On the basis of the state building regulations, all federal states have set Some federal states have adopted their own climate change mitigation

Climate change legislation

Federal state building regulations

the building regulations.

acts to set their own climate change targets for their federal state.

These acts also contain requirements for the promotion of electric

Federal state building regulations contain regulatory requirements for

building and using structural works. Charging posts are structural

works, however, the erection of charging posts usually does not require

approval. Nevertheless, it is necessary to comply with the provisions of

mobility to advance climate change targets in the transport sector.

nment's Electric Mobility Programme	Federal Government	
al Government presented its Electric Mobility Programme. It includes the strategy f nt's objectives in this area. The objective was to make Germany a lead market for		

🛱 🐜 🛛 Local public transport legislation

comply with their public service obligation to provide sufficient local public transport services to citizens. Some of these acts also contain requirements for promoting the electrification of local public transport.

Roads legislation

The first mobility act, the Berlin Mobility Act, was adopted on 28 June The federal states' roads and highways acts contain public property law for areas dedicated to public transport. The operation of charging infrastructure in the public road environment constitutes a special use of these areas. As a result, it is necessary to obtain permission for special use.

Strategies







