

AVERE THE EUROPEAN ASSOCIATION FOR ELECTROMOBILITY





AVERE | International activities





The European Association for Electromobility

Representing the e-mobility value chain: OEMs, CPOs, EV users, Public Institutions, etc.



years of active actions to develop the e-mobility market (since 1978)



Members in 26 states

- e-Drivers
- e-Chargers
- e-Vehicles



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AVERE | International activities





Patrik Krizansky

SEVA, Slovakia



Francesco Naso

Italy



Haluk Sayar AVERE Turkiye, HEA, Turkey



Janos Ungar

Hungary



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The EU's e-mobility sector is key to reaching the Green Deal's decarbonisation targets, creating high-skilled jobs, and increasing the competitiveness of the European economy

100% new zero-emissions vehicles by 2030

Fully decarbonised European road transport by 2050

in electromobility







Making Europe a world leader



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Membership



AVERE doubled the membership over the last 5 years to currently +65 members representing both EV industry and users



AVERE continuously supported members in their advocacy efforts at the national level



AVERE's dedicated working groups allow members to coordinate on top policy priorities and standardisation / regulations

→ The working group structure is driven by our membership's priorities



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AVERE | Policy Priorities



	EPBD
Cars / vans	CO2 HDV
ery Ilation	ETS
ग	Driving License Directive
materials	Count
	Emissions EU
of Life	Emissions EU
of Life cles ctive	PSD II



WE DRVE

Sustainable new mobility now!





The largest economic organization, representing many industries and sectors, creating the new mobility market in Poland and the CEE region

2016 Year of establishment

250+

Members of PSPA, leaders of sustainable transport in Poland

100+ institutional Partners



400

trainings and industry events

1.8 million

medium reach of media publications based on PSPA announcements

12

research and pilot projects

content analyses



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PSPA | Full representativeness of the organization



Image: Constrained stateImage: Constra

Member companies employment

500 bln

Member companies revenue (2022)





of Poland's GDP in 2022

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Members	K 1/1	NISSAZ	🕢 НҮШПОЯІ	Audi	T	JAGUAR	
	smart	ŚKODA	PORSCHE	V	Samochody Dostawcze	MAR	
Automotive			_				
Operators	RENAULT TRUCKS				ElectroMobility Poland	MAXUS	
Station producers							
Infrastructure ecosystem	Grupa Krotoski	Armatus	ABB	GARO	EKOENERGETYKA		
Batteries							
Financial institutions	💙 ALFEN		wallbox 🗊		ENSTO		
New Mobility						durapower	
/ Sharing	EV/BOX	нивлест		SIEMENS	Avitron	Gireve	
Logistics/Retail			HUAWEI		POLSKA		
Power engineering	\sim	Allego>	greenway	eleport	EU		
Law firms	FASTNED			or of port	e-way24	CHARGE	
Consulting/training	~		brouleo			(GLOTOC Delive	
Local governments	ORLEN		- Postoria	TotalEnergies		SPLUIUS PaliWa	
Photovoltaics		_	0		9		
Other	moya	POLENERGIA		eon		Operator	























PSPA	InPost	NOËLIMIT logistyka	Sobanscy	Raben	Cargo Logistics
Members	Uber	ABERG	panek	amazon	HaM
	1.301	VISA	Alphabet	🙏 Mitsubishi Corporation	ARVAL BNP PARIBAS GROUP
Automotive					
Operators		LeasePlan	Leasing	Santander Leasing	
Station producers	Leasing w IN6				
Infrastructure ecosystem	Powering the future of movement	uryıs	0 electro	KINGSMAN	отомото
Batteries					
Financial institutions	northvolt	САРСНЕМ		шаттесноік 💻	BAREMETALS
New Mobility					
/ Sharing		KPING	Â.	CLIFFORD CHANCE	Olesinski Wspolnicy
Logistics/Retail	рис	NI III O	IN		4
Power engineering		STRABAG	BERGMAN ENGINEERING	ECHO	arp
Law firms	budimex mobility		Thinking beyond tomorrow	investment	Agantij November S.A., vision
Consulting/training	l andis∔6vr	omelle	EV	GO+EAuto	PØWER [°]
Local governments	canars oyr	quieno	join the electric rEVolution		
Photovoltaics	*7NIIO .	// B 80// 00/	@ Weensd		
Other	Koronea 🛶	\$\$ KAWICOM.PL	© ∭6U9L	= V 3	ARINEA



Plus

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eservice

C LG Energy Solution Wrocław Sp. z o.o.

Waygate Technologies

kochański & partners

DEKRA

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Technitel®











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Members	DRAB POL	EUROMASTER	SafeFleet [®]	He LOT US		NO SMOG .RENT
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Automotive	GEOTAB.	moBiLET	四ProjektParking	V O O M	BIBUS MENOS'	INSIGHT OUTLAB
Operators Station producers		ElectricMobility	multiuuash	Last Mile=Solutions	Applus [®]	mobileye-
Infrastructure ecosystem Batteries	ARC .	Store	(-)ebasto	ENNOVATION	electroo	AIR /
Financial institutions New Mobility	Share D				Stasionat al	(R) chargeo pl
/ Sharing Logistics/Retail				STACJELADOWANIA.COM	Stacjonat.pr	The chargeo.pr
Power engineering	elomoto.eco	WALLBOX POLSKA	G R E E N WALLBOX	EKOCEL ZOELLER GROUP	(Uovercome)	
Law firms Consulting/training	energiaslońca.pl	Y zefir		COS Automotive Digitization	MY ECO WORLD	🤣 ervolta
Local governments Photovoltaics	SOUC	electromobility. ONE	ScreenCharge	PlugBox	VivaDrive	PROEV
Other		닑 Horyzont EV	FALCK			



Inbalance

Wwebfleet

Green Cell





CHARGEEUROPA





EVØLUCJA



PSPA | Our structure



PSPA PROJECTS



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PSPA | Strategic goals



Transforming **Poland into** a leading production hub for the e-mobility sector

Development of public and private infrastructure **Strengthening** the position of **Polish transport** companies in the **European value** chain

Development of renewable energy sources (RES) and acceleration of the Polish energy sector transformation towards zero emissions



R&D work and

staff training

coordinating research and of industrial

#5%GDP

5% of the e-mobility sector's GDP in 2035





Increasing the efficiency of R&D funds allocation. projects, as well as directing them to the possibility implementation

Providing investment financing and system support for the electric car market

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E-mobility market in Europe and Poland





Why e-mobility?

EU greenhouse gas emissions by sector



* The energy sector covers emissions from:

the energy industry, manufacturing and construction industries, diffuse emissions and others (e.g. residential/private)

Waste management

9.7% Industrial processes and product consumption

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Why e-mobility?

EU emissions in the transport sector by mode of transport





Background: EU EV Charging Legislations





package to align existing

RePowerEU and cut our dependence on Russian gas

European Green Deal and Climate Law

- → "European Green Deal" as main project of von der Leyen Commission
- → 2021 "Climate Law" inscribes 2050 carbon neutrality into law, and adds 2030 interim target of 55% reductions compared to 1990

Fit for 55

- → Major legislative package presented throughout 2021 in two parts to translate Climate Law into concrete actions
- \rightarrow Many key files currently in the late stages within Parliament and Council

RePower EU

European



 \rightarrow 2022 plan to rapidly reduce dependence on Russian fossil fuels and fast forward the green transition

 \rightarrow Includes additional measures on corporate fleets and freight transport

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Alternative Fuels Infrastructure Regulation (AFIR)

Timeline



Importance

Sets a framework for the rollout of public recharging infrastructure in the EU, including binding rollout targets for Member States and requirements on payment and pricing

Key concerns

- Rollout target ambition \rightarrow
- Payment & other technical requirements \rightarrow
- Retroactive effects \rightarrow
- Pricing & price transparency \rightarrow

State of play

\rightarrow

- \rightarrow chargers

Adopted – awaiting implementation Balanced differentiation of payment requirements between slow and fast

→ Extended data obligations

+ European Access Point

→ Application foreseen from March 2024

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Energy Performance of Buildings Directive

Timeline



Importance

Modernizes the EU's framework climate legislation on buildings, notably including targets to roll-out pre-cabling and charging infrastructure in residential and non-residential buildings, either new or renovated

Key concerns

- Include existing buildings \rightarrow
- Establish the right definitions \rightarrow (pre-cabling)
- Include HDV \rightarrow
- Strengthen right to plug \rightarrow
- Address fire safety \rightarrow

State of play

- **Council**: Member States \rightarrow found a compromise in October, but many Member States do not find the compromise ambitious enough
- → **Parliament**: Report passed in plenary in March.
- → **Trilogues** ongoing

Main issues of divergence

- → Including existing buildings in the scope
- → Setting ambitious pre-cabling target vs pre-ducting (myth of the cost of pre-cabling, scarcity of resources, etc)
- An ambitious right-to-plug \rightarrow
- Including HDV \rightarrow
- → Mandating V2G

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Renewable Energy Directive (RED III)



Importance

→ The Renewable Energy Directive establishes common rules and targets for the development of renewable energy across all sectors of the economy, including transport. Fuel-neutral credit trading provides a great potential revenue opportunity for CPOs and users.

Key concerns

- Maintaining a level playing field between \rightarrow renewable electricity and other fuels (notably through appropriate energy efficiency ratios, EERs)
- Extend the scope of fuel-neutral credit \rightarrow trading to include private charging
- → Account RES beyond national grid average

State of play

- 31/10/2023 \rightarrow
- → Adopted awaiting implementation

20/11/2023

Entry into force

Published in the Official Journal of the European Union

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Why does the EPBD matter for EV charging ecosystem?



Most charging sessions happen at home or the office

Currently and at least until 2030, EV users charge their vehicles on average 70% of the time at home, at the office or at destination charging stations



Home charging is cheaper for EV users

Numbers from the European Alternative Fuels Observatory (EAFO) show that charging at home is cheaper than any other charging option

The 2035 deadline
will increase the
sales of EVs

The EPBD is an enabling factor helping current and future EV users to charge their vehicles in parallel to publicly accessible stations



EVs can bring flexibility to the grid

EVs should be seen as batteries on wheels which will help integrate renewables and balance the grid through smart charging and, soon at a large scale, bi-directional charging. Home and destination charging is a prime application, as vehicles remain parked for extended periods of time

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Share of types of drives on the European market of new passenger cars



Source: ACEA



Other alternative fuels



Number of public charging points in the EU-27 by point type







Charging infrastructure market in Europe | Forecast





Electric car market in Poland | Current status

Number of electric passenger cars

87,724 45,198 BEV 42,526 PHEV

Registrations of electric passenger cars

25,867 I-IX 2023 (+39% YoY) 18,544 I-IX 2022



Data as of 30/09/2023

Source: E-Mobility Index by PSPA & PZPM

Charging infrastructure market in Poland | Current status



Source: E-Mobility Index by PSPA & PZPM

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Source: Polish EV Outlook 2023 by PSPA

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Poland in the European supply chain of the e-mobility sector

Lithum-ion battery supply chain ranking – cell & components*

The largest lithium-ion cell factory in Europe

		LG Energy Solution		
Global	European	Location	Biskupice Podgórne	
		Year of commencement	2017	
2022	2022	Target employment	+7,000	
1 CHINA	1 POLAND	Target potential	86 GWh per year (cu 115 GWh (in 2025)	
2 POLAND	2 HUNGARY	Selected contractors	Audi, BMW, Fiat, For Porsche, Volkswage	
		Public financial support	95,000,000 EUR	
3 USA	3 GERMANY	Total investment value	3.1 bln EUR	
4 HUNGARY	4 SWEDEN	The value of exports of t	he Polish battery se	
5 GERMANY	5 FRANCE	2020 2022	ca. EUR 4 billion ↓ ca. E	

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ector

EUR 8 billion

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of the total value of Polish exports

E-Mobility: a historic opportunity for Poland's economic development

The global shift from internal combustion engines to electric propulsion could ensure that the Polish automotive sector maintains its strong position in the national economy and that Poland becomes a production hub for the e-mobility sector in Europe

Share of the e-mobility sector in the value of Poland's GDP | Forecast





Thank you!

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