2022 Survey on E-mobility

Draft Results

Renewable Energy Committee

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ERRA RE COM virtual meeting
June 14, 2022

Involved Organisations

ENERGY REGULATORS REGIONAL ASSOCIATION


Public Services Regulatory Commission (PSRC)


Energie-Control (E-Control)


Azerbaijan Energy Regulatory Agency (AERA)


Energy Regulatory Office (ERO)


Georgian National Energy and Water Supply Regulatory Commission (GNERC)


Hungarian Energy and Public Utility Regulatory Authority (MEKH)


Public Utilities Commission (PUC)


National Energy Regulatory Council (NERC)


National Energy Regulatory Agency (ANRE)


Authority for Public Services Regulation (APSR)


Peru's Regulatory Agency for Investment in Energy and Mining (Osinergmin)


National Electric Power Regulatory Authority (NEPRA)


Romanian Energy Regulatory Authority (ANRE)


Water & Electricity Regulatory Authority (WERA)


Energy Market Regulatory Authority (EMRA)


National Energy and Utilities Regulatory Commission (NEURC)


Regulatory and Supervisory Bureau for Electricity and Water of Dubai (RSB)

https://erranet.org/

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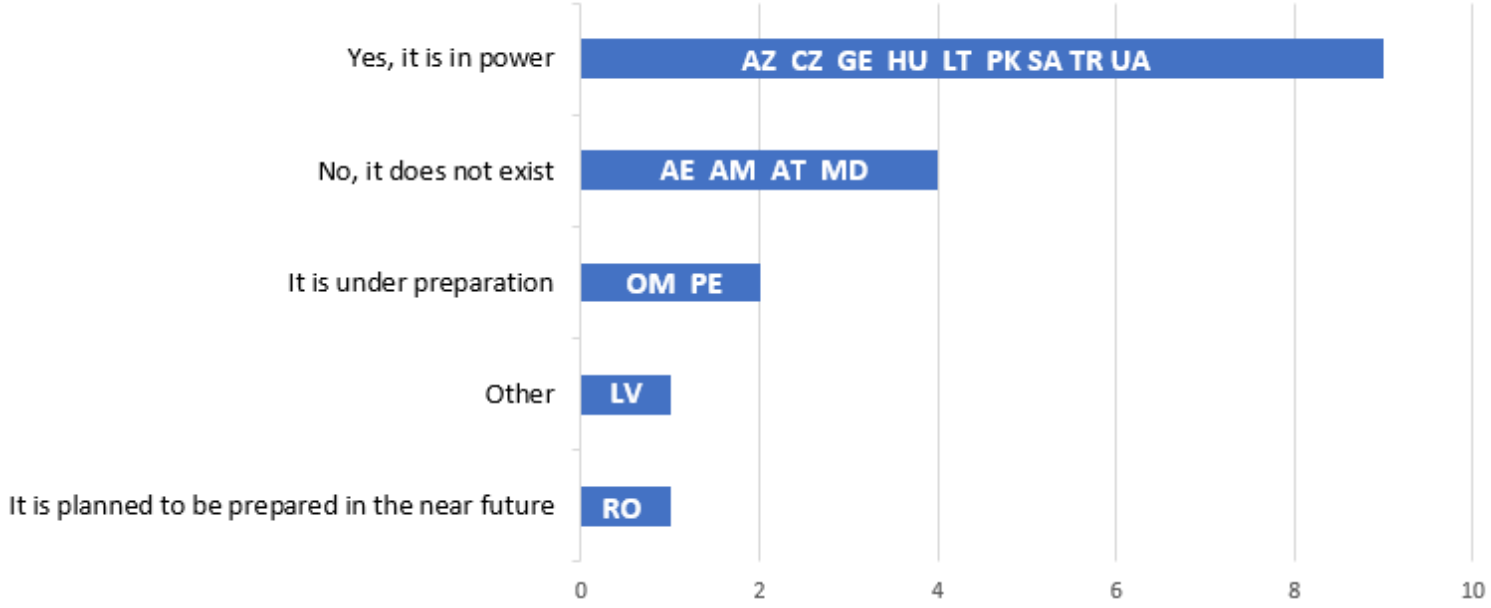
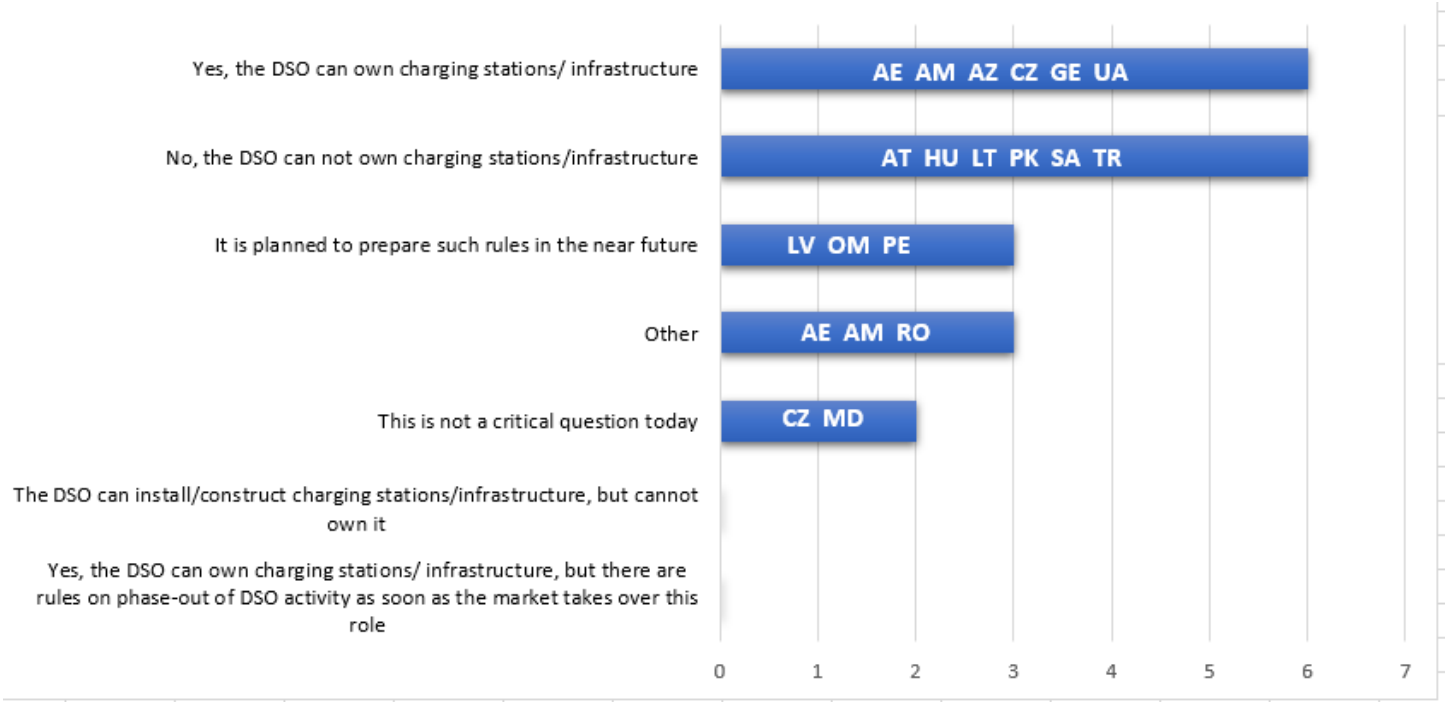
LEGAL/ REGULATORY FRAMEWORK OF E-MOBILITY

Part 1

Is there any legal framework regulating the e-mobility related issues in power in your country?



Does the market model (set by the legal/regulatory framework) allow or disallow utility (DSO) ownership of charging stations/infrastructure?



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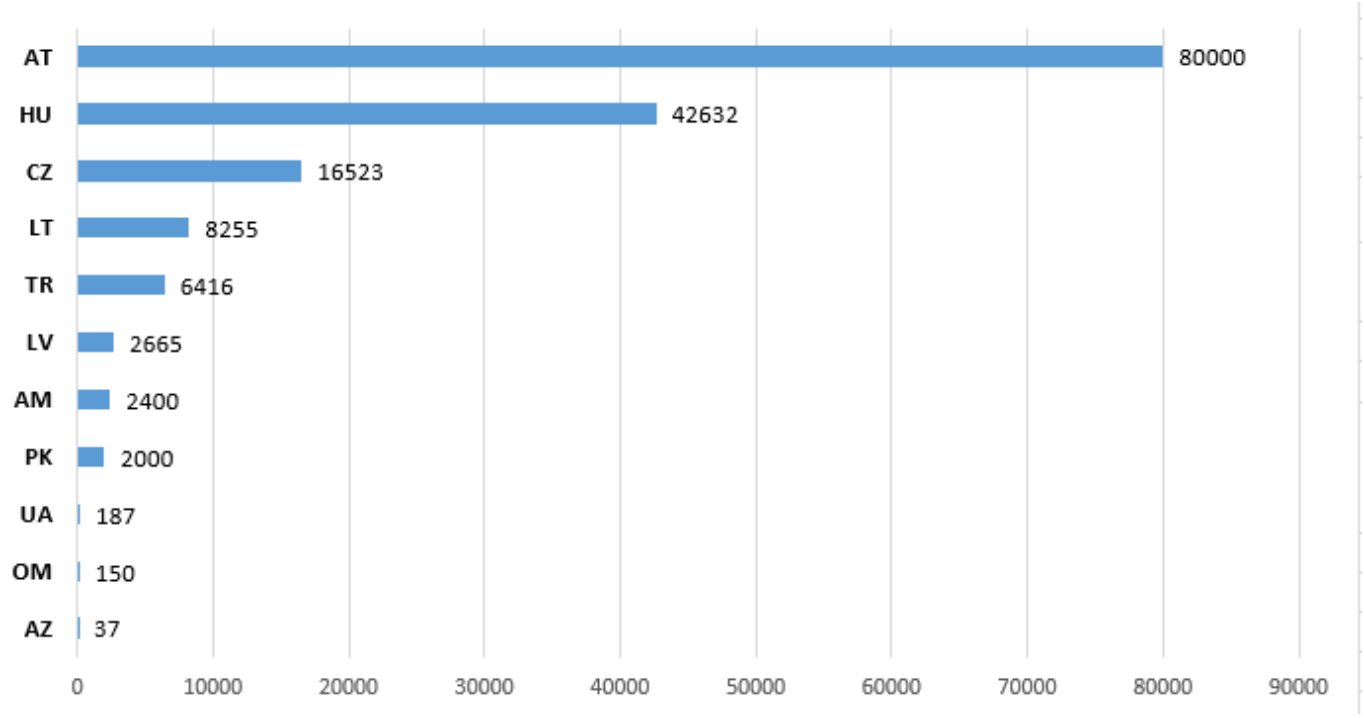
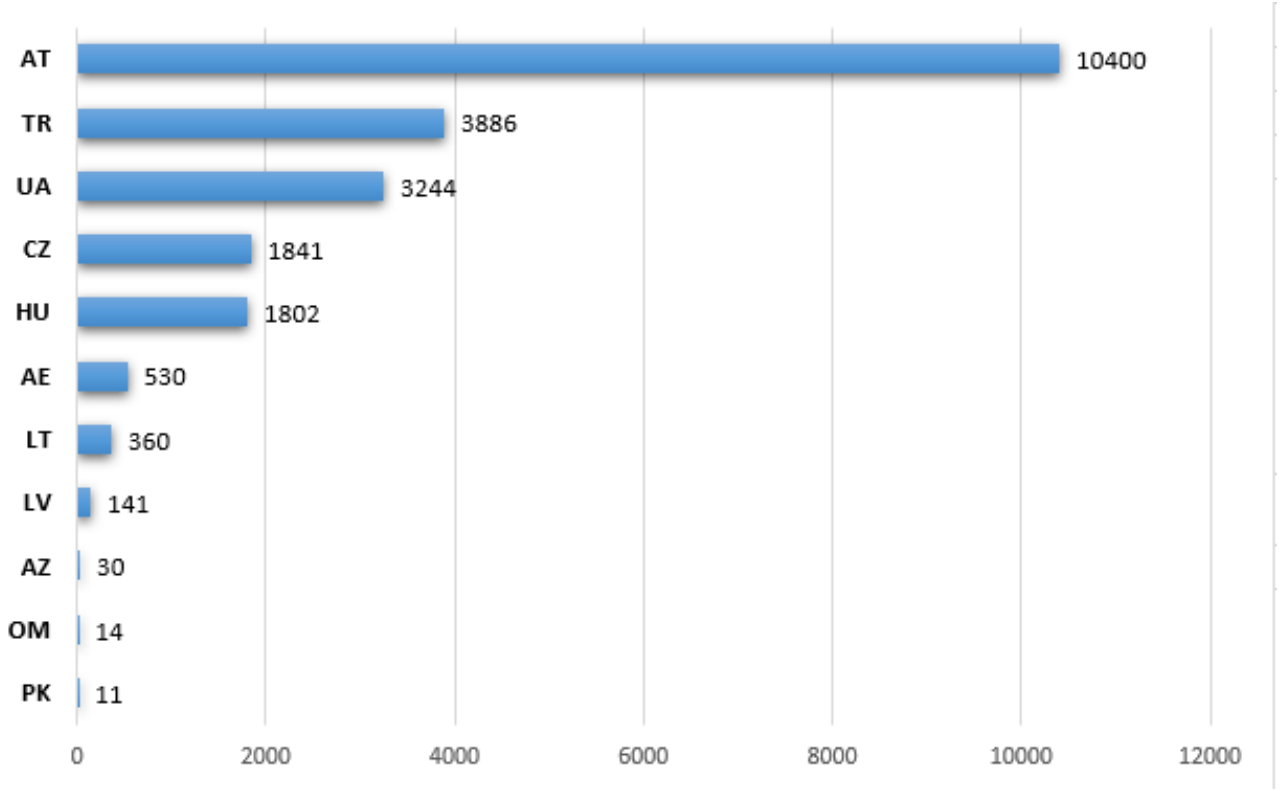
CURRENT AND PLANNED FUTURE ROLL-OUT OF EV CHARGING INFRASTRUCTURE

Part 2

Number of EVs (BEV + PHEV) at the end of 2021 or last available year

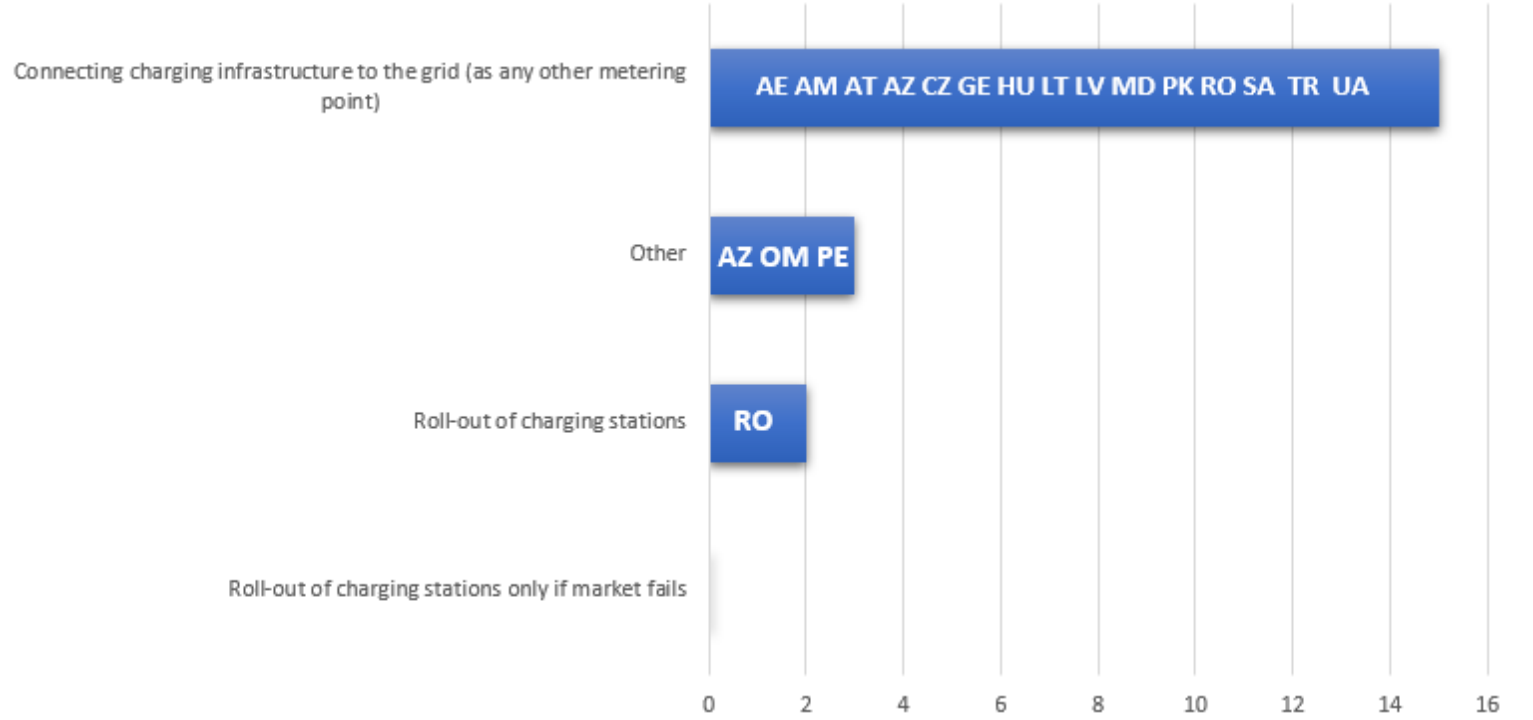


Number of electric charging points at the end of 2021 or last available year

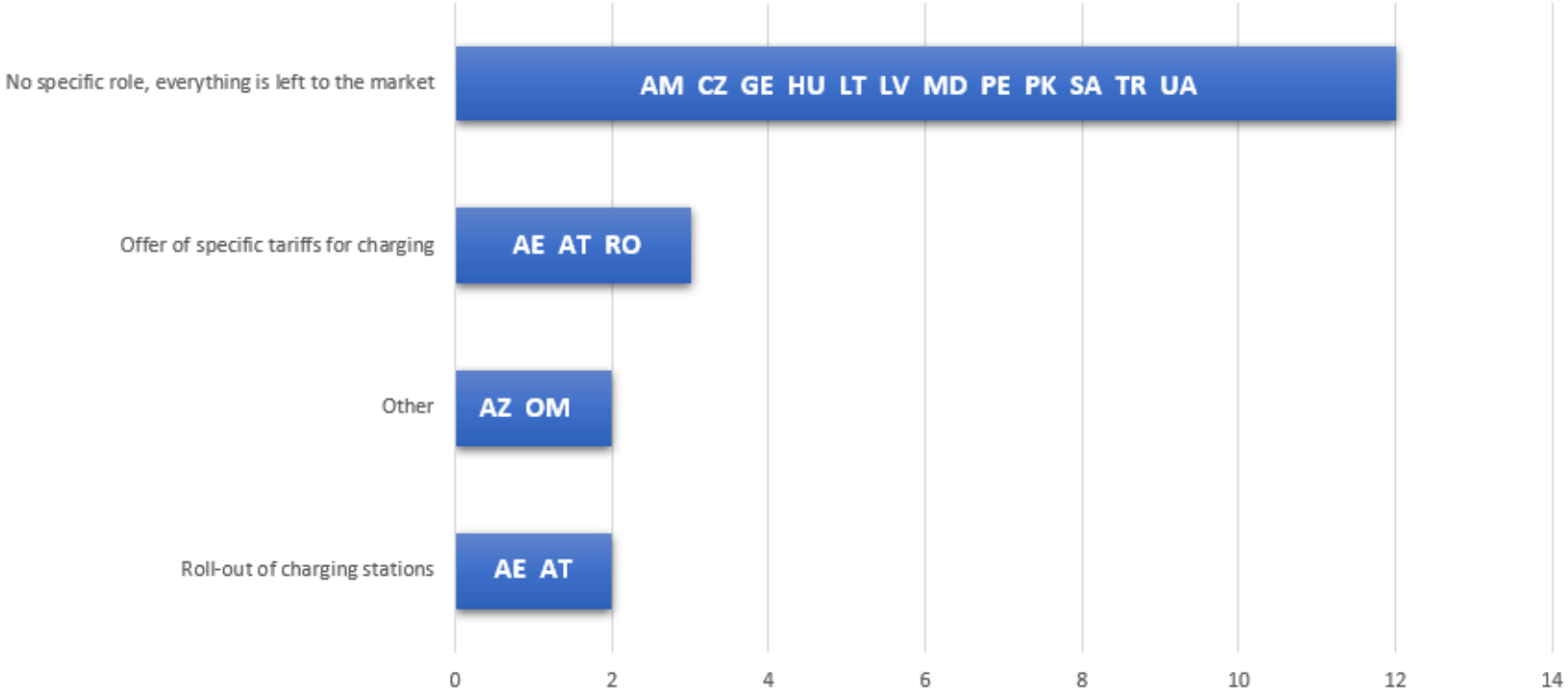


AM, GE, MD, PE, RO, SA do not provide any data
AE, LT have more than above mentioned quantity

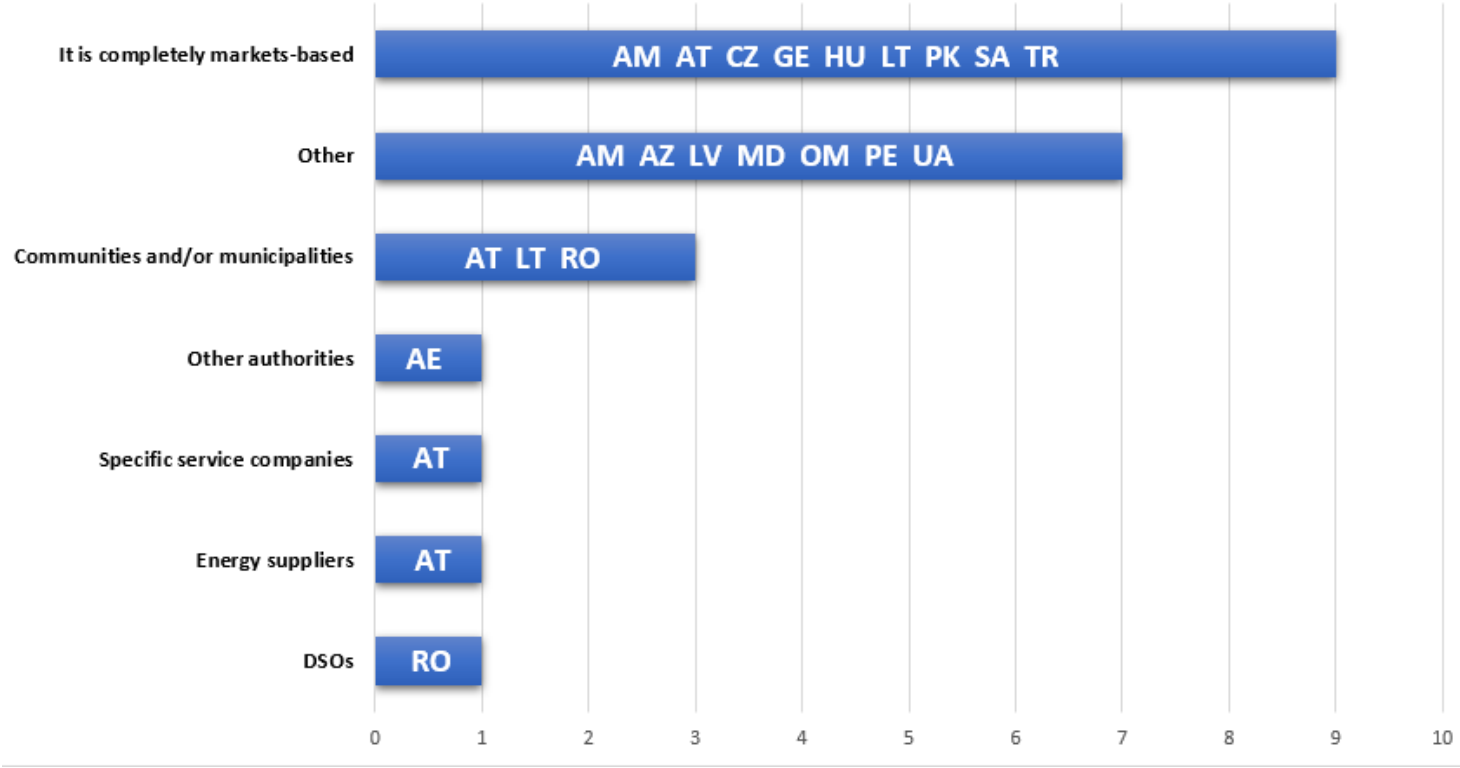
What is the role of the DSO?



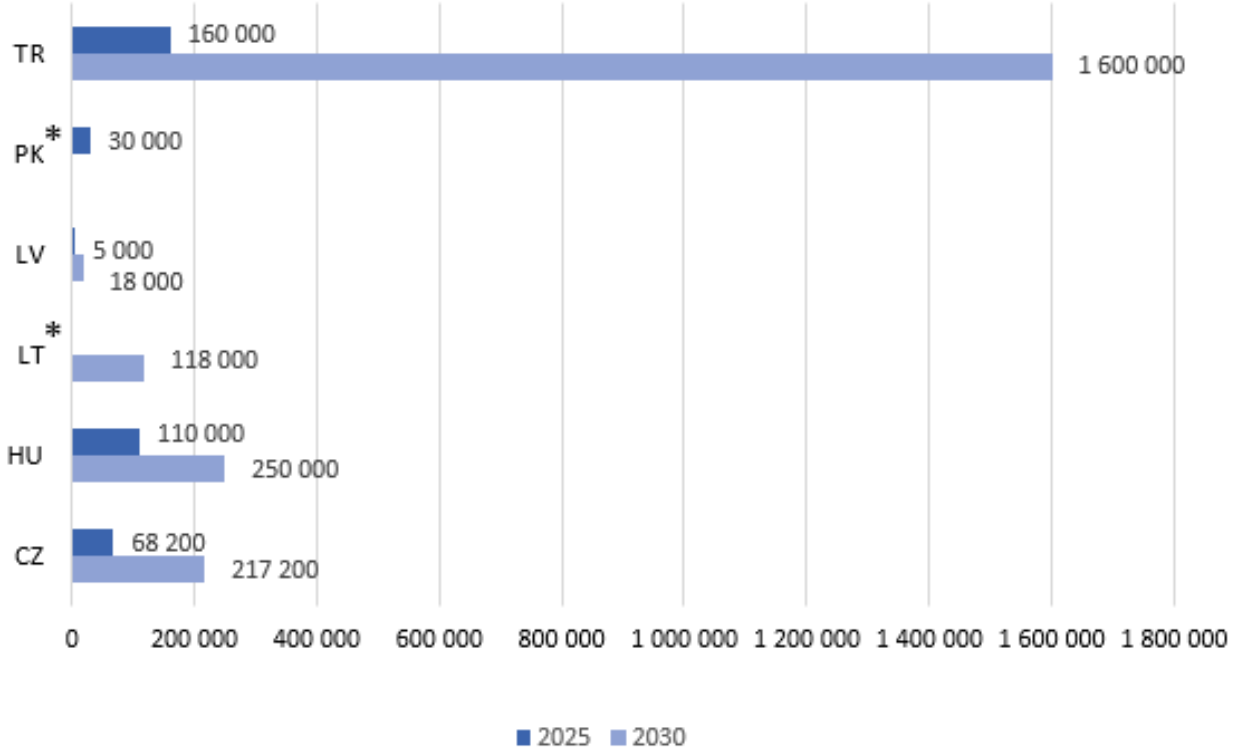
What is the role of the energy supplier?



Who is responsible for the roll-out of charging stations?

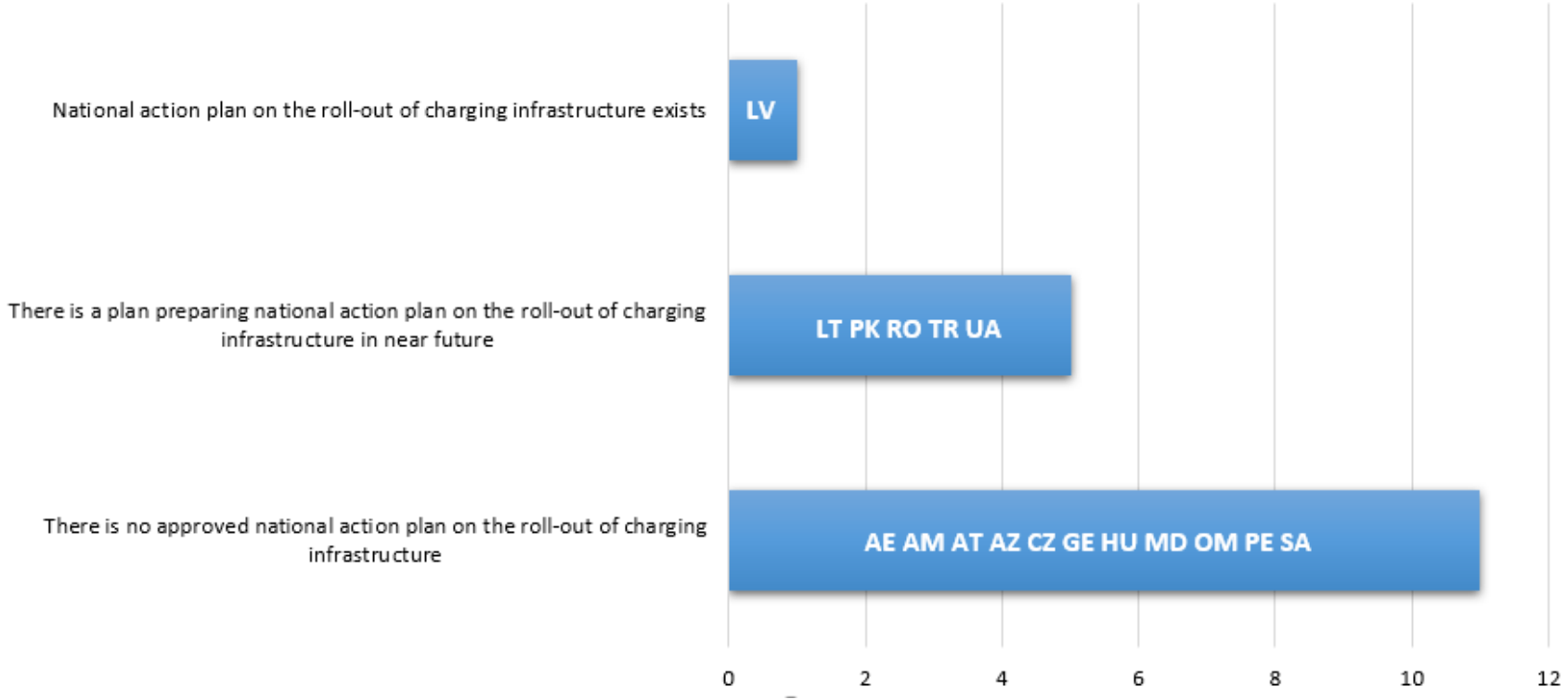


Projected number of EVs (cars, busses, lorries) in 2025 and 2030

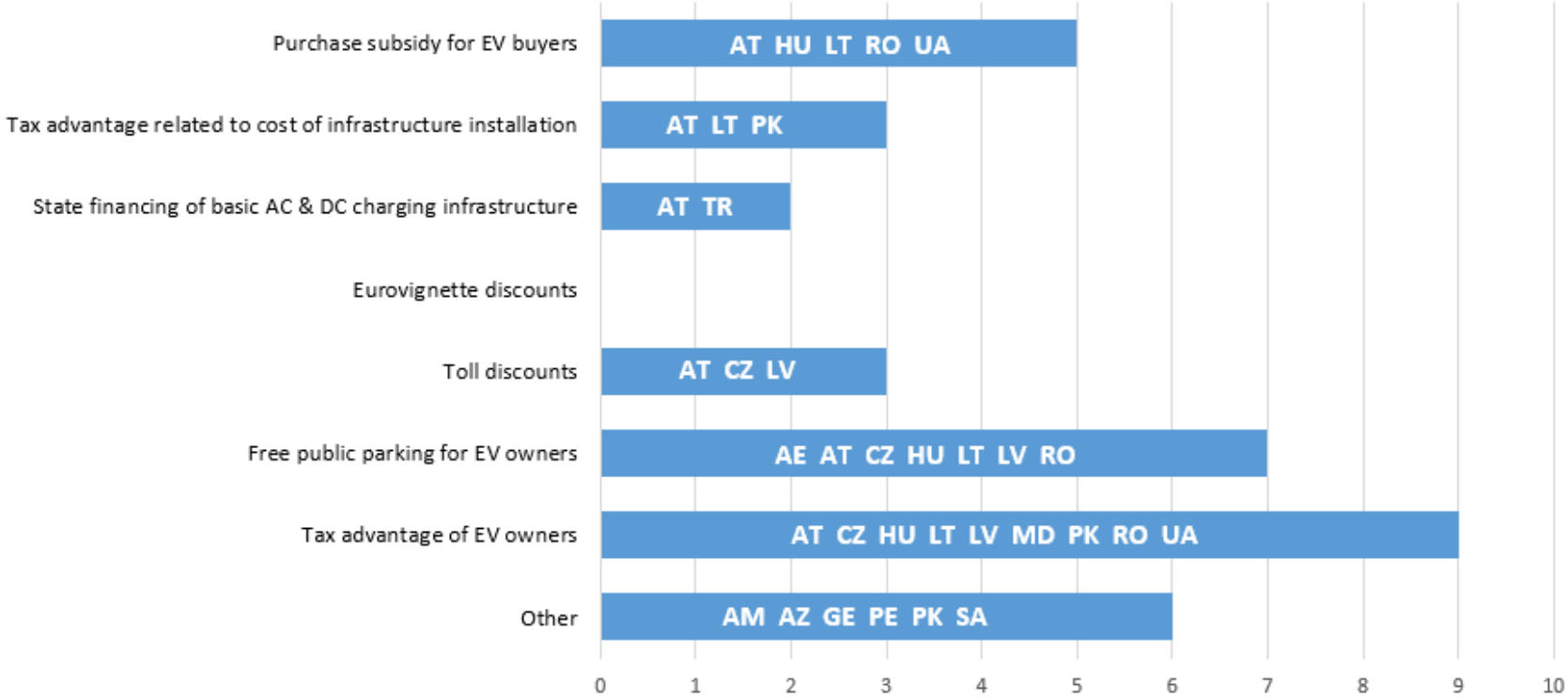


- **PK states that for 2030 the number of EVs will be equal to 30% of total sales**
- **Do not provide the data for 2025**

Is there any national action plan on the roll-out of charging infrastructure?



Is there any support (purchase subsidy, tax advantage, free parking, etc.) for EVs and charging infrastructure?



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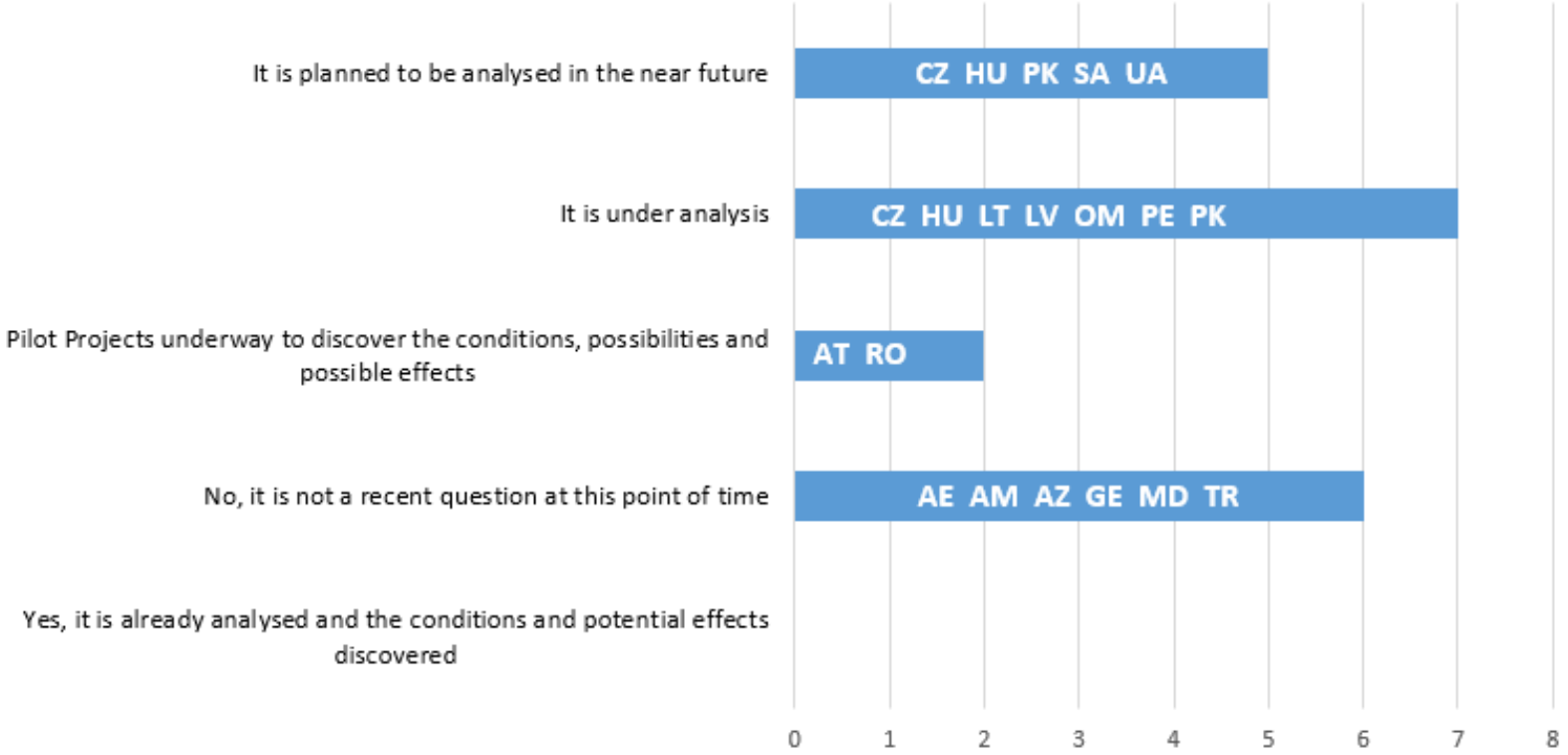
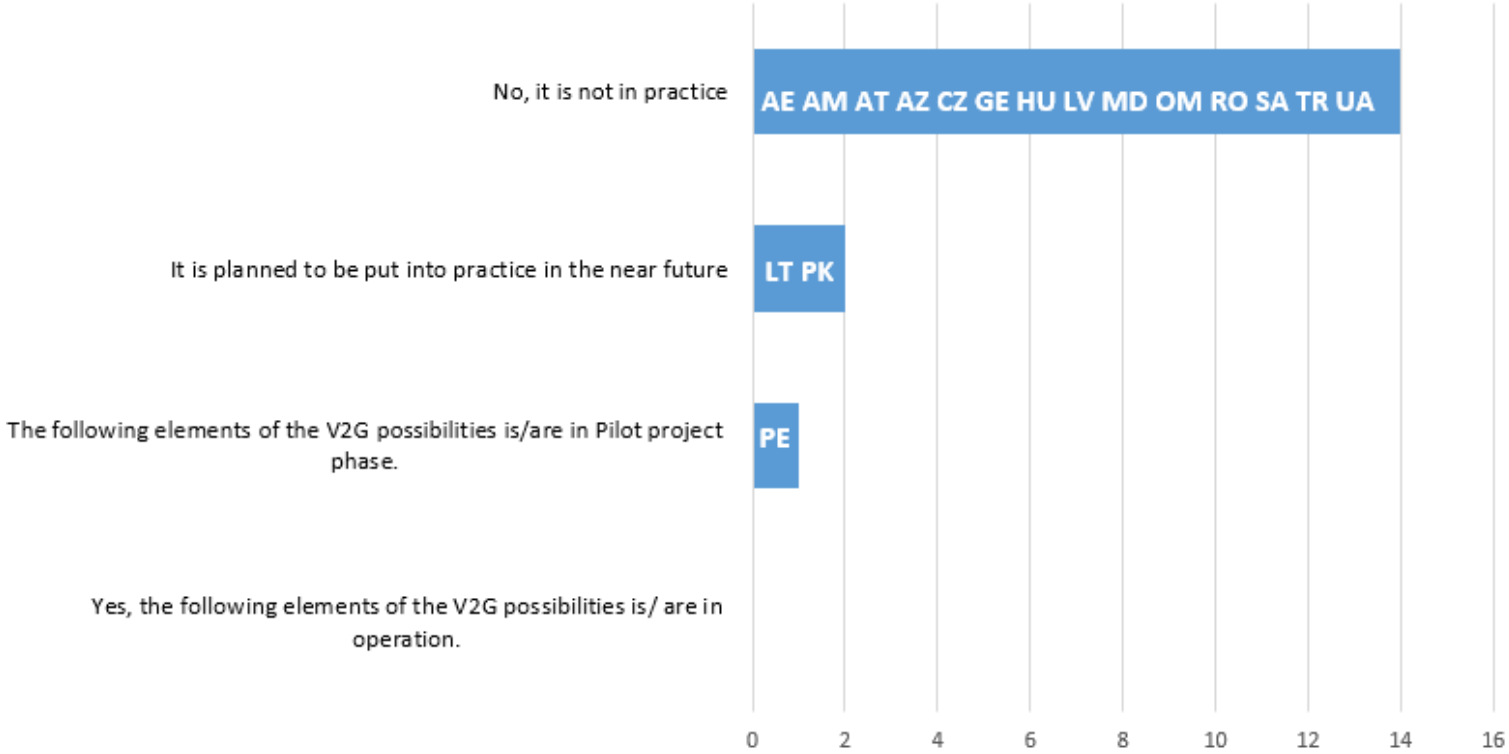
ELECTRICITY SYSTEM EFFECTS OF E-MOBILITY

Part 3

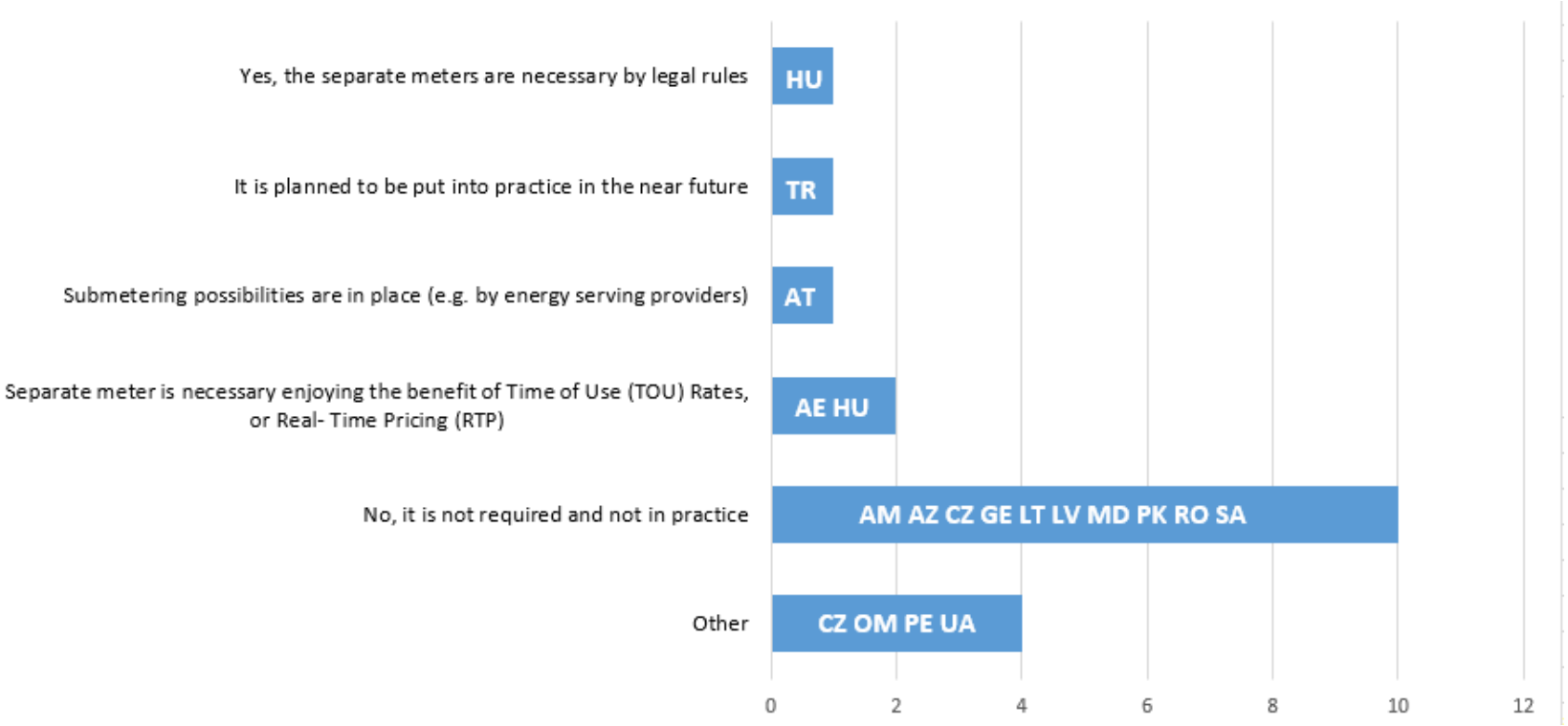
Are the V2G possibilities and the conditions of these additional grid services analyzed and discovered in your national electricity system?



Are there any elements of the V2G possibilities in operation?



Are there separate meters for the EV home charging?



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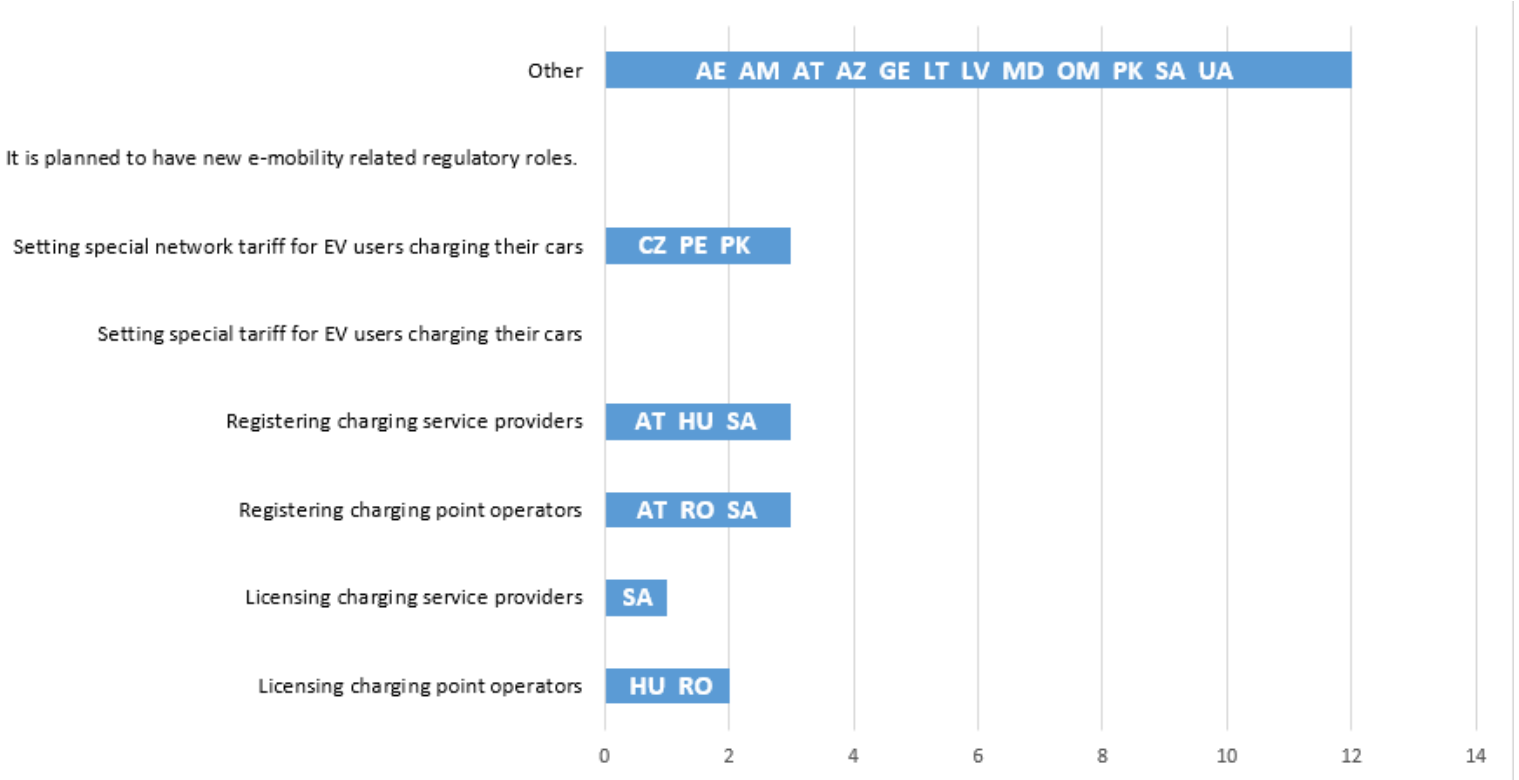
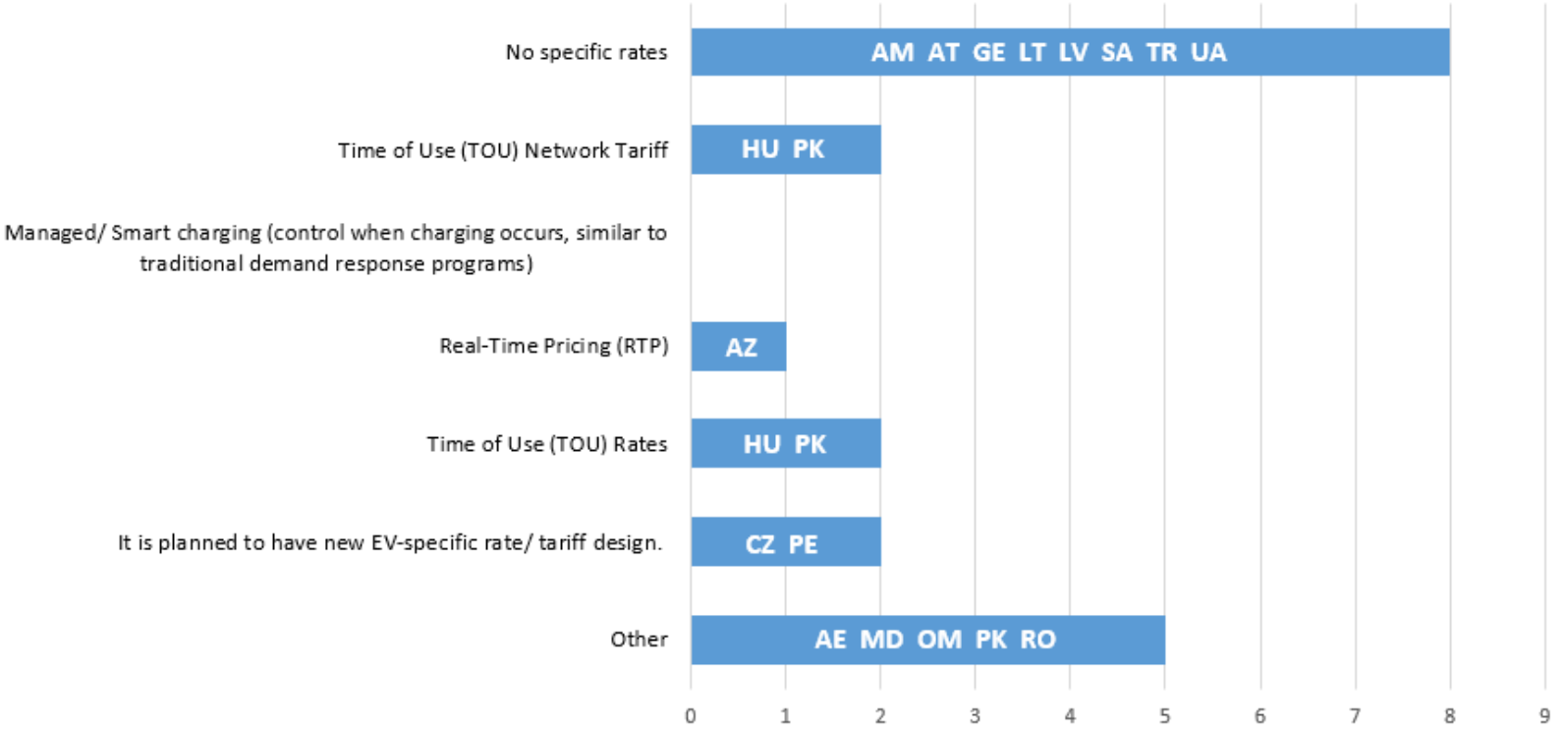
ROLE OF THE NATIONAL REGULATORY AUTHORITY REGARDING E-MOBILITY

Part 4

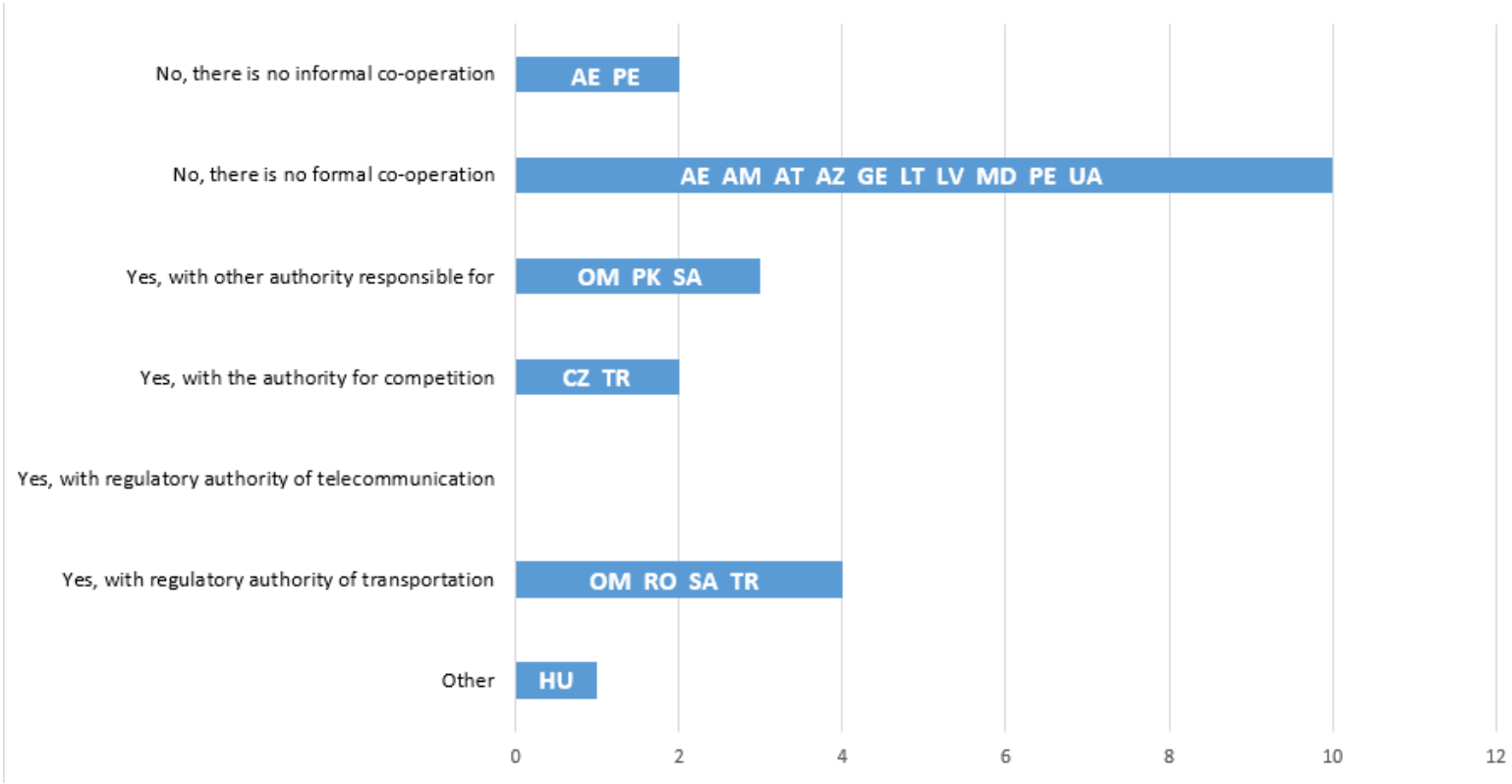
What are the present regulatory roles regarding e-mobility?



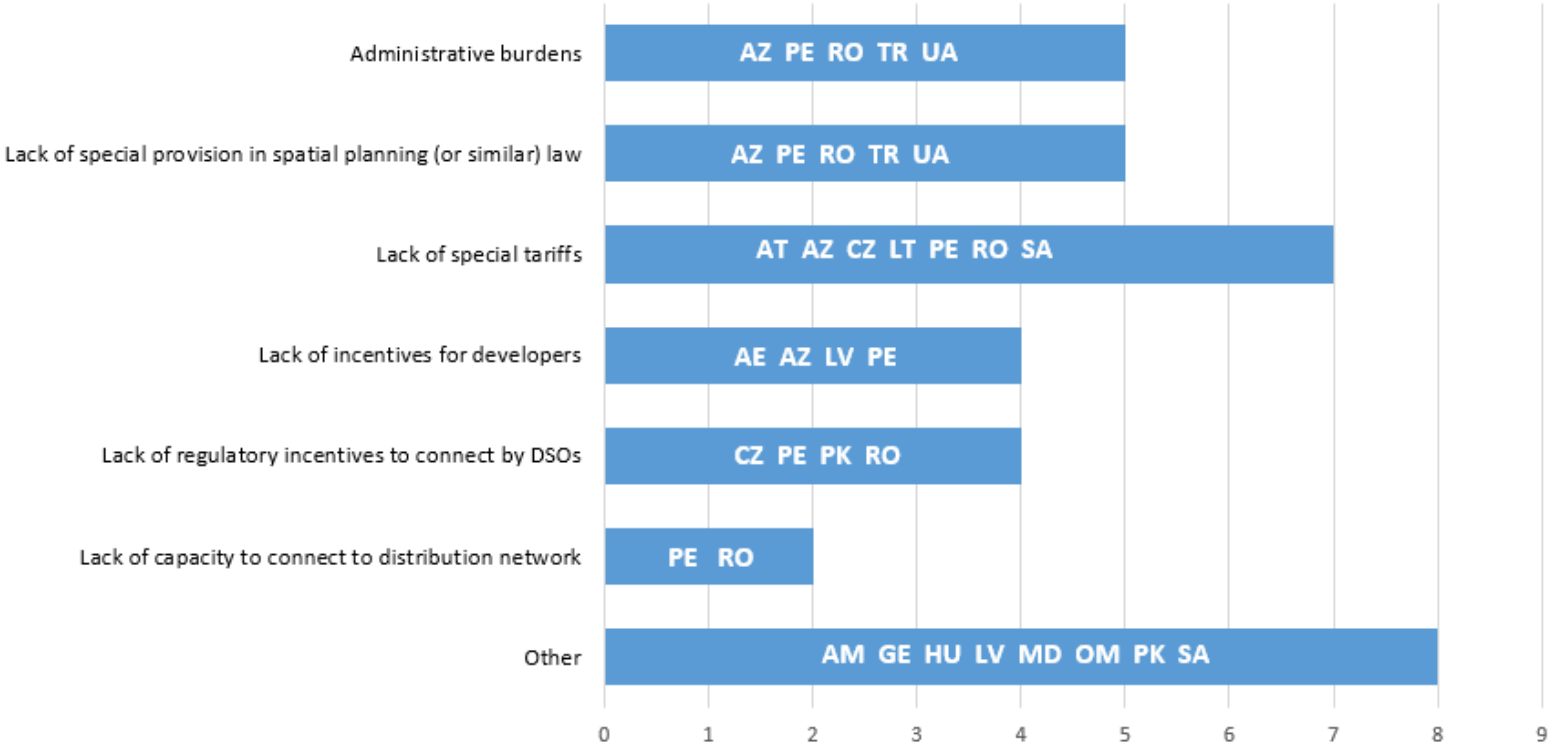
Which EV-specific rate/tariff design elements and/or smart charging are under consideration (or implementation) in your country?



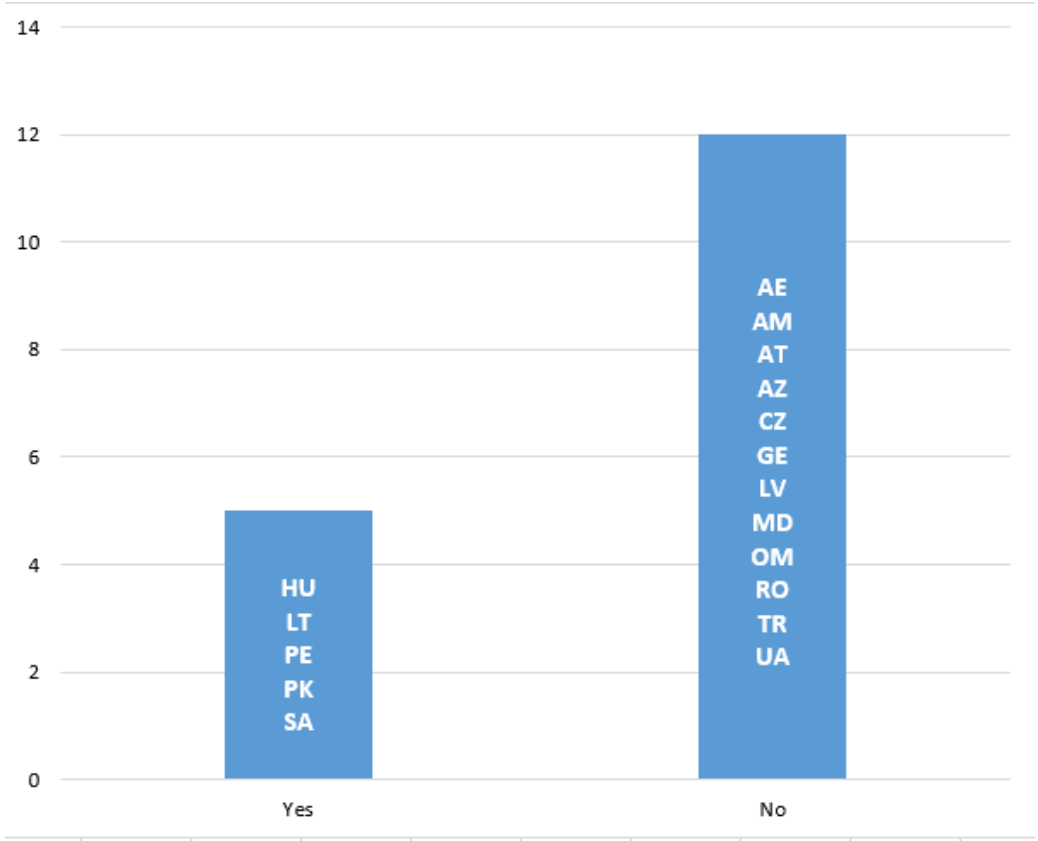
Does your regulatory authority co-operate with other sectoral regulatory authorities with regard to e-mobility?



Barriers to the development of EV infrastructure



Is there any special sub-topic within e-mobility that would be of interest to you?



Is there any special sub-topic within e-mobility that would be of interest to you?

Supplement to the answers:	
MEKH, Hungary	Hungarian Energy and Public Utility Regulatory Authority (HEA): o Presentation of the roaming services business model conditions. o Flexibility potential and adaptability.
NERC, Lithuania	The application of different tariffs as an incentive for the development of electric vehicle charging stations. Also, other incentives.
Osinergmin, Peru	How are charging spots work? Is there a new agent considered such a retailer?
NEPRA, Pakistan	1. Users' behavior management for the adoption of e-mobility 2. Preparedness required by the electricity distribution companies for supporting e-mobility adoption 3. Financial and fiscal incentives for promoting e-mobility business in the country 4. What regulatory and infrastructure augmentation is required for V2G communication 5. How the communication happens when the grid requires support from the EVs for stability
WERA, Saudi Arabia	V2G: What is the current and future landscape of V2G? What would be the role of the V2G in future energy system?

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Thank you!
Questions?