



Celebrating
YEARS
50
OF Successful
TOLL ROAD PROJECTS

2nd SECAP SUSTAINABILITY FORUM

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E-Power by ASFINAG: E-Charging implementation plan for Austria's motorways

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ASFINAG

Status e-mobility on the ASFINAG-network



Charging stations in operation



Charging stations in operation

- 36 charging stations in operation at motorway service stations
- Average distance of about 62 km
- A total of approx. 220 charging points
- Charging power up to 360 kW
- Open access and interoperability
- 100% electricity from renewables

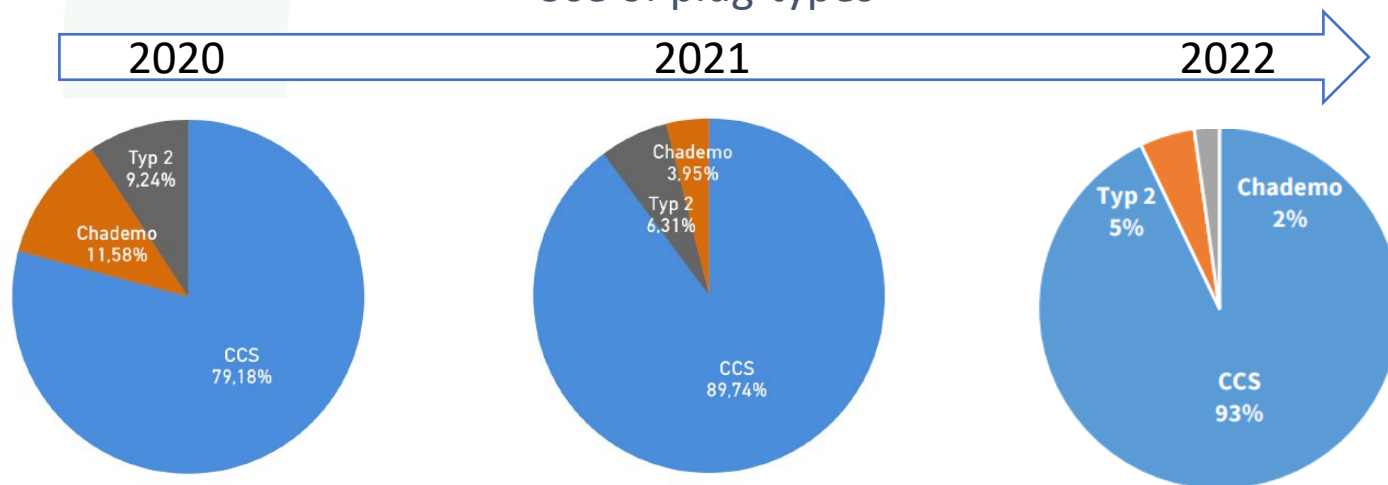


Charging stations in operation

Statistics for 2022

- In total, over 190,000 chargings (+87% compared to 2021, +420% compared to 2020)
- 16 chargings per location / 24h (fluctuation range: 4 to 50)
- An average of 27 kWh per charge
- Average charging time 44 min

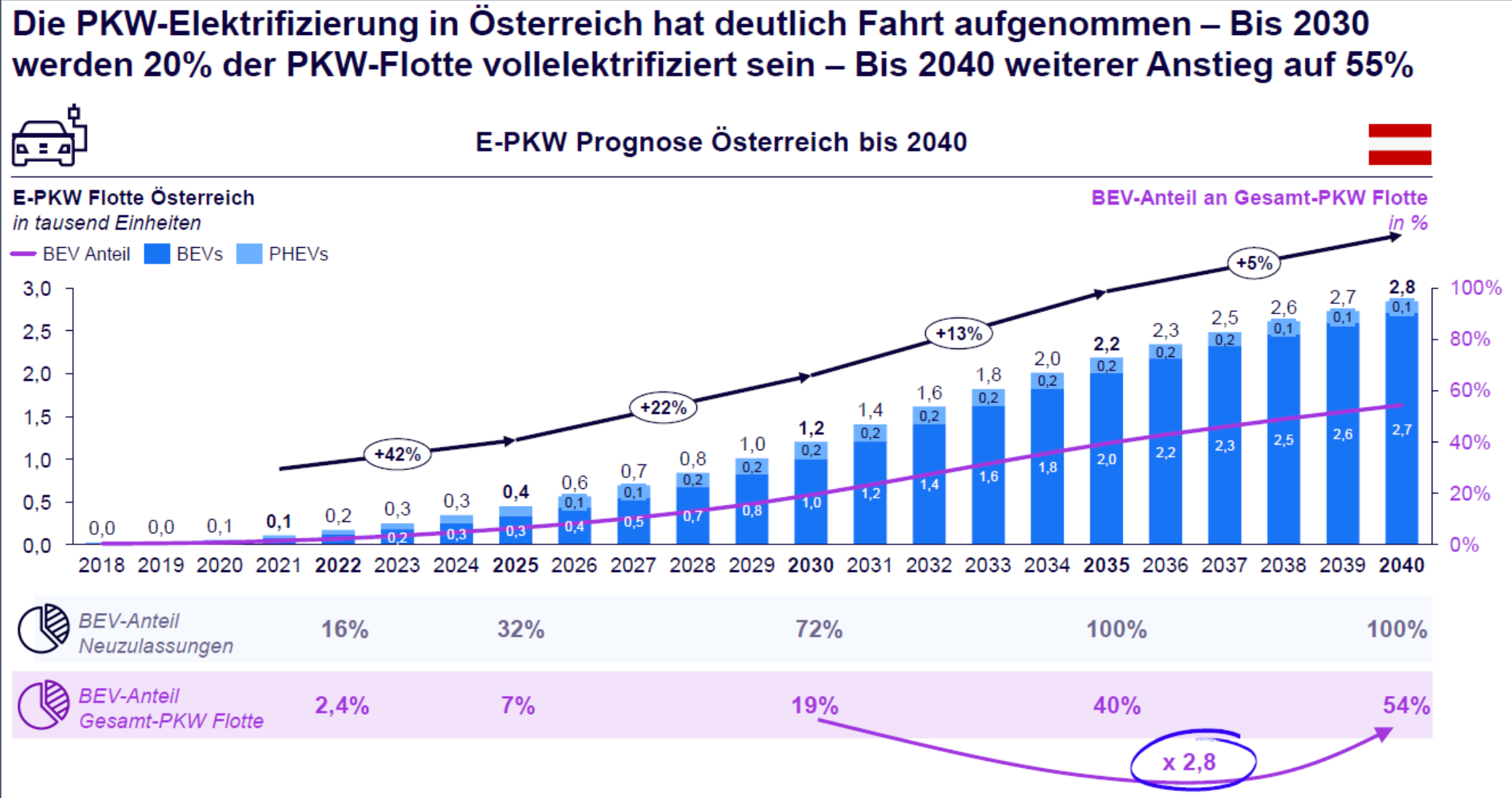
Use of plug-types



Outlook on e-mobility



Forecast passenger cars



Forecast trucks

Die ersten E-LKWs kommen bereits auf den Markt – In 2040 werden sie die dominierende Antriebsform für den Schwerlastverkehr in Österreich sein



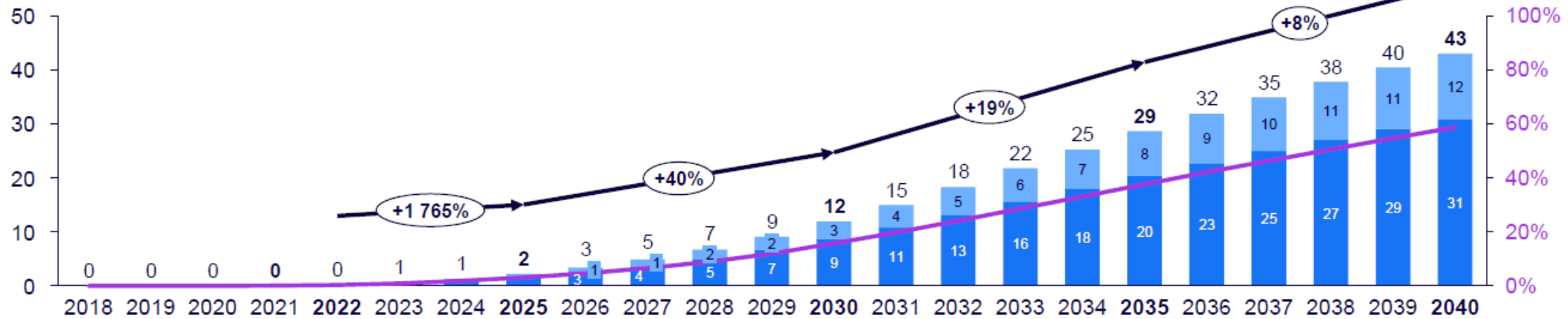
E-LKW Prognose Österreich (Fahrzeugklasse N2 und N3) bis 2040



E-LKW Flotte Österreich
in tausend Einheiten

BEV-Anteil an Gesamt-LKW Flotte
in %

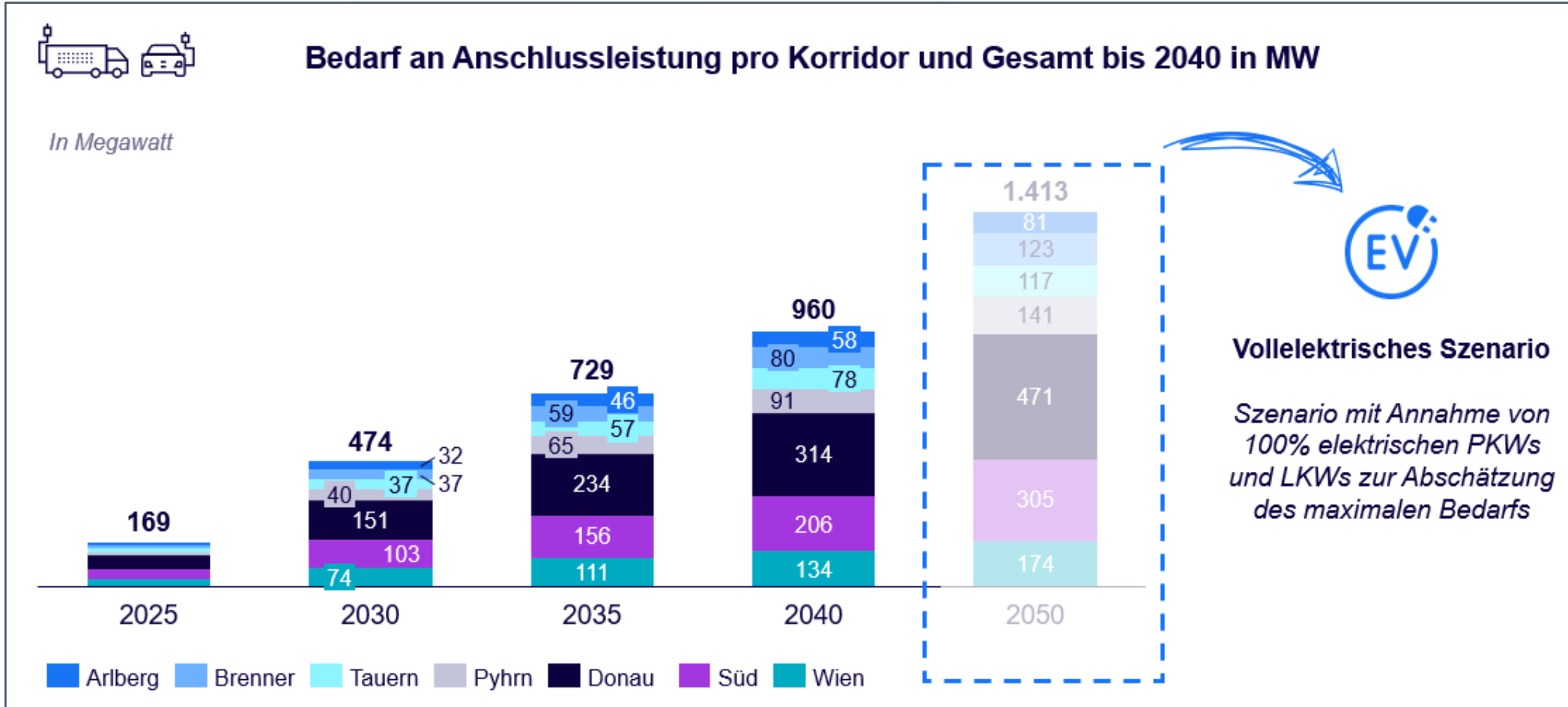
— BEV Anteil ■ LKWs ■ Zugmaschinen



	BEV-Anteil Neuzulassungen	2,2%	11%	42%	66%	76%
	BEV-Anteil Gesamt-LKW Flotte	0,3%	3%	16%	38%	59%

x 3,7

Forecast power supply



2040: estimated energy demand of 2.000 GWh/year

Outlook e-mobility for cars

Political/legal requirements:

- 1,500 car charging points by 2030
- AFIR: EU Regulation for the development of charging infrastructure

High demands on the number and equipment of charging stations:

- Ad hoc charging without discrimination
- Payment by credit/debit cards
- Billing according to kWh, price labeling
- Roofing, lighting
- Separated charging stations for cars and trucks/buses



Outlook e-mobility for trucks

Target: 1,300 charging points for heavy goods vehicles by 2035

Differentiation is necessary:

- Overnight charging: during the night's rest, low charging power (approx. 100 kW)
- Truck fast charging: For charging in between, with high outputs (up to 1,000 kW)

Reservation system for truck charging will be required → no loss of time for the carriers

Long distance e-trucks are already being produced

From 2024/25, most manufacturers will produce electric trucks

From 2025, megawatt charging technology will be available (charging with 1,000 kW)



E-Charging at ASFINAG rest areas



E-Charging at ASFINAG rest areas

60 rest areas in operation by ASFINAG

Goal: e-charging stations at all rest areas by 2030

- Car charging with at least 150 kW
- Truck fast charging with at least 350 kW
- Overnight truck charging with at least 100 kW

Construction and operation of the e-charging stations will be published for tender

Grid connection will be provided by ASFINAG



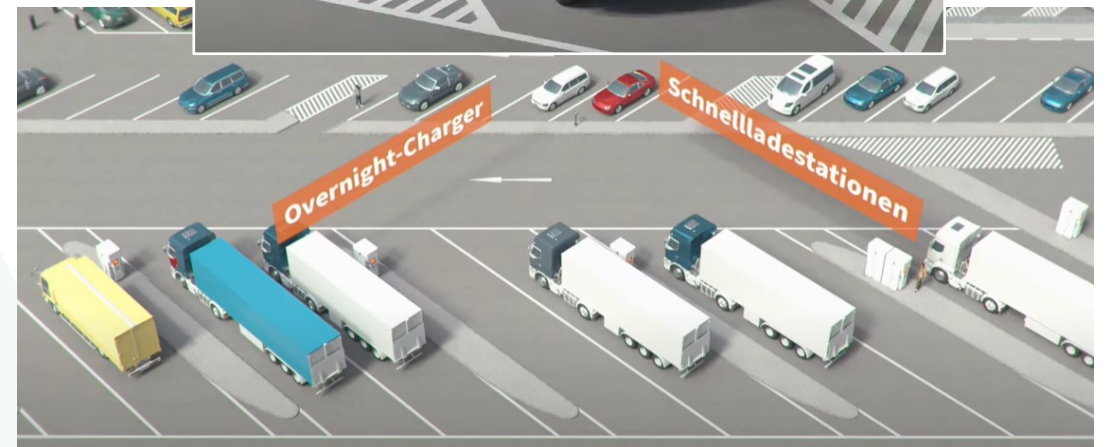
ASFINAG pilot projects “rest area of the future”

Rest area „Roggendorf“ (A1, Lower Austria)

- E-charging for cars and trucks
- Extended customer services (catering, common areas, etc.)
- Solar power plant
- Commissioning 2024

Truck stop „Hausruck“ (A8, Upper Austria)

- Space saving convoy parking
- E-charging for trucks
- Solar power plant
- Vending machine area (drinks, snacks and washing machines)
- Commissioning 2024





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THANK YOU!

Bernhard Hintermayer

bernhard.hintermayer@asfinag.at

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