## ZORLU ENERGY

### **ELECTRIP HELLAS**

7)ZORLU

electrip

Elcin TRAKADAS Country Manager

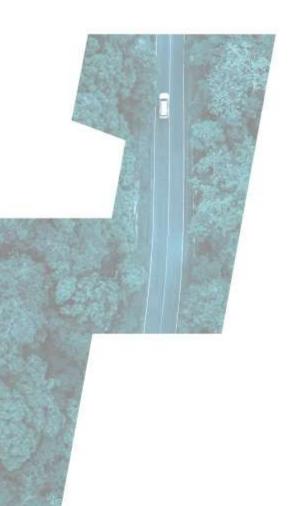
IENE: 26ο Εθνικό Συνέδριο «Ενέργεια & Ανάπτυξη 2022» 23/11/2022



## Zorlu Energy Highlights

Electrip

## **EV Market in Greece and Europe**



#### **ZORLU GROUP**

Among the top 3 groups in Turkey in terms of employment creation. One of Turkey's 7 biggest exporters.



## ZORLUENERJi

A balanced portfolio of 100% domestic and renewable energy production



Electrip Global B.V Based in Holland





## VESTEL

Electronics, White Goods, Telecommunications

Export champion in electronics industry **since 20 years.** 



## ZORLUTEKS

Zorlu Textiles Group is Europe's largest home textile producer with exports to **58 countries** in 5 continents.



#### MINING AND METALLURGY

Turkey's **first**, Europe's **unique** Nickel cobalt concentrate plant.



Close to **500 thousand** visitors per annum.

One of Europe's and best equipped

performing arts centers Nearly 500 thousands of visitors per year.



**Zorlu Energy** is an integrated utility which is involved in the **generation** and sale of **electricity** and **steam**, **electricity** and **natural gas supply** and **trade**, **electricity** and **natural gas distribution**, **installation**, **trade** and **sale** of **solar PV panels**; **design** and **turnkey construction** of **power plants**, **installation** and **sale** of **EV charging stations** and **electric car sharing**.

As of 2018, Zorlu Energy has gathered its new-generation technology activities under the ZES brand, which aims to facilitate the driving experience of electric vehicle owners in Turkey and near territories. As of 2021, Zorlu Energy has established several companies in Europe and Israel.

In line with the growth strategy; "Electrip Hellas" has been established in Greece under 100% ownership of Zorlu Energy in order to pursue its activities and projects.

**Electrip** is an integrated operator for electric mobility committed to the deployment of charging infrastructures, from 22 kWh up to 180 kWh of power.

#### **ZORLU ENERGY GROWTH STRATEGY**



# **Renewable Energy**

- Invest in geothermal, wind and solar power projects in Turkey and abroad
- New feed-in tariff mechanism critical for new projects in Turkey
- Existing licenses or pre-licenses for pipeline projects

New Business Areas: ZES and Electrip

Capitalize on the energy transition in transport sector

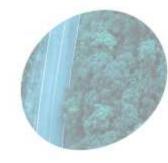
- End-to-end public and private charging solutions
- Targeting to become a regional e-mobility provider in the midlong term



## Electricity Distribution

RAB growth via planned investments

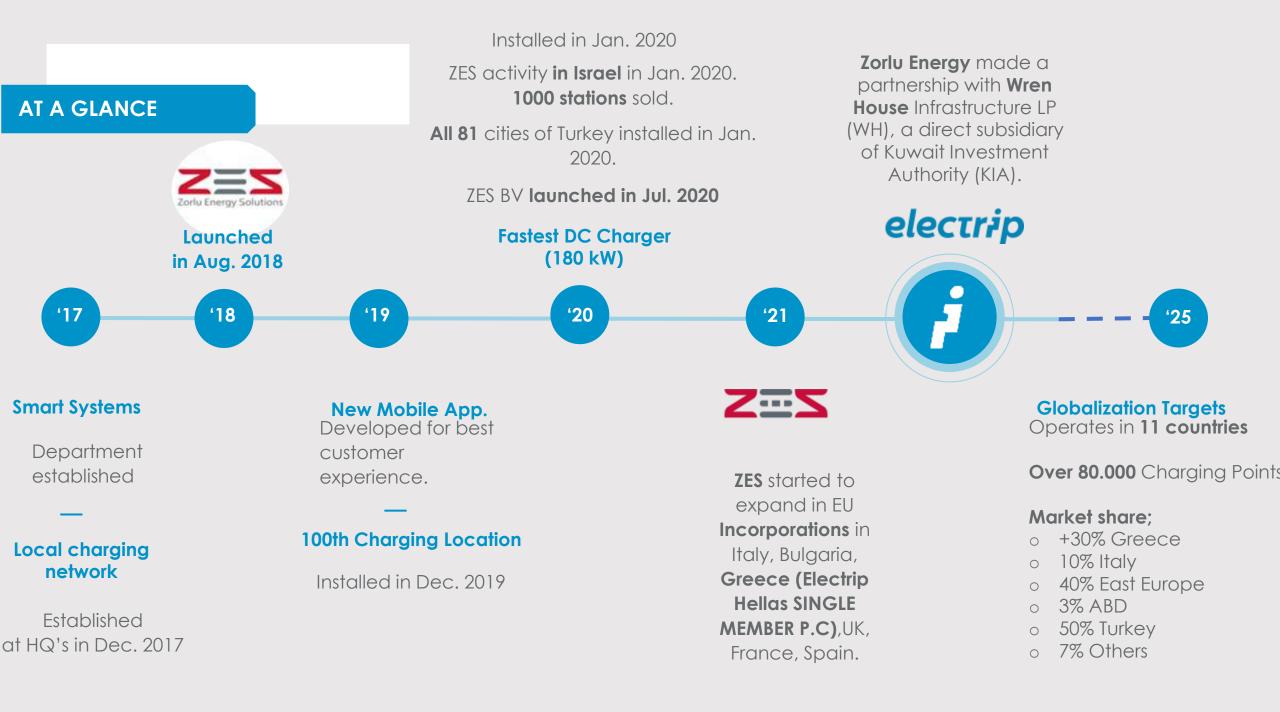
- Network digitization and automation
- Opportunistic acquisitions

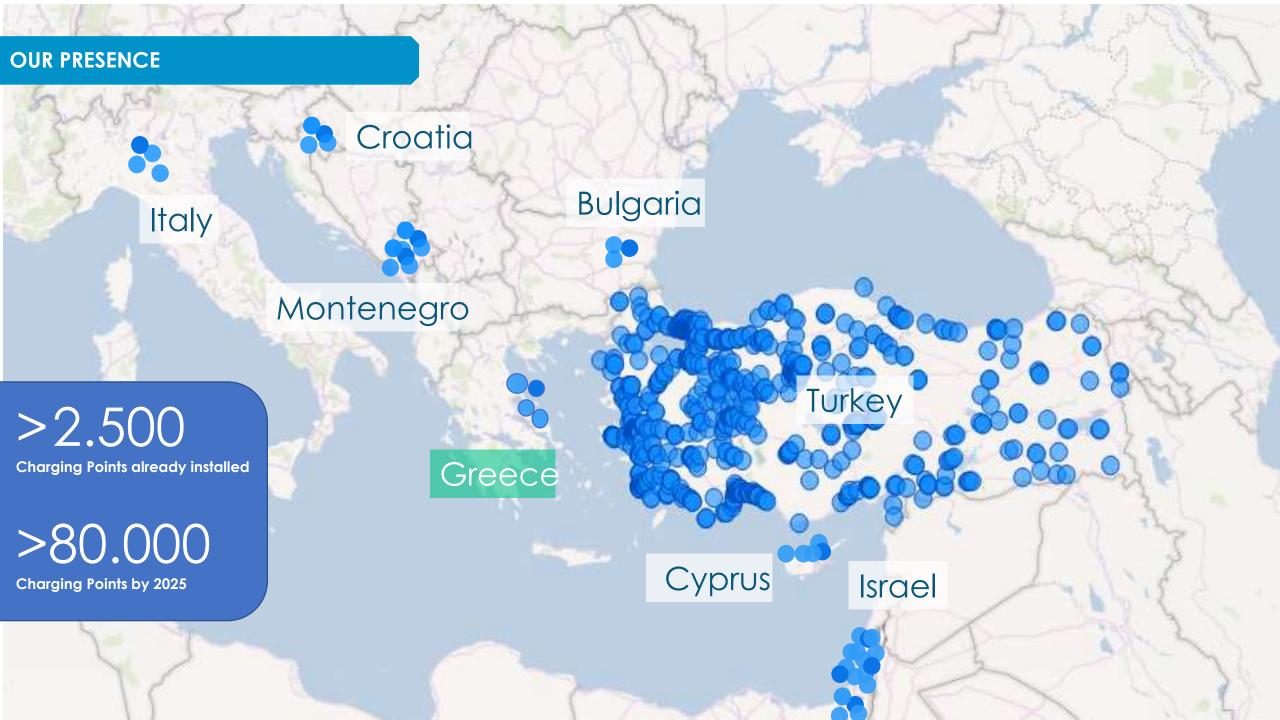


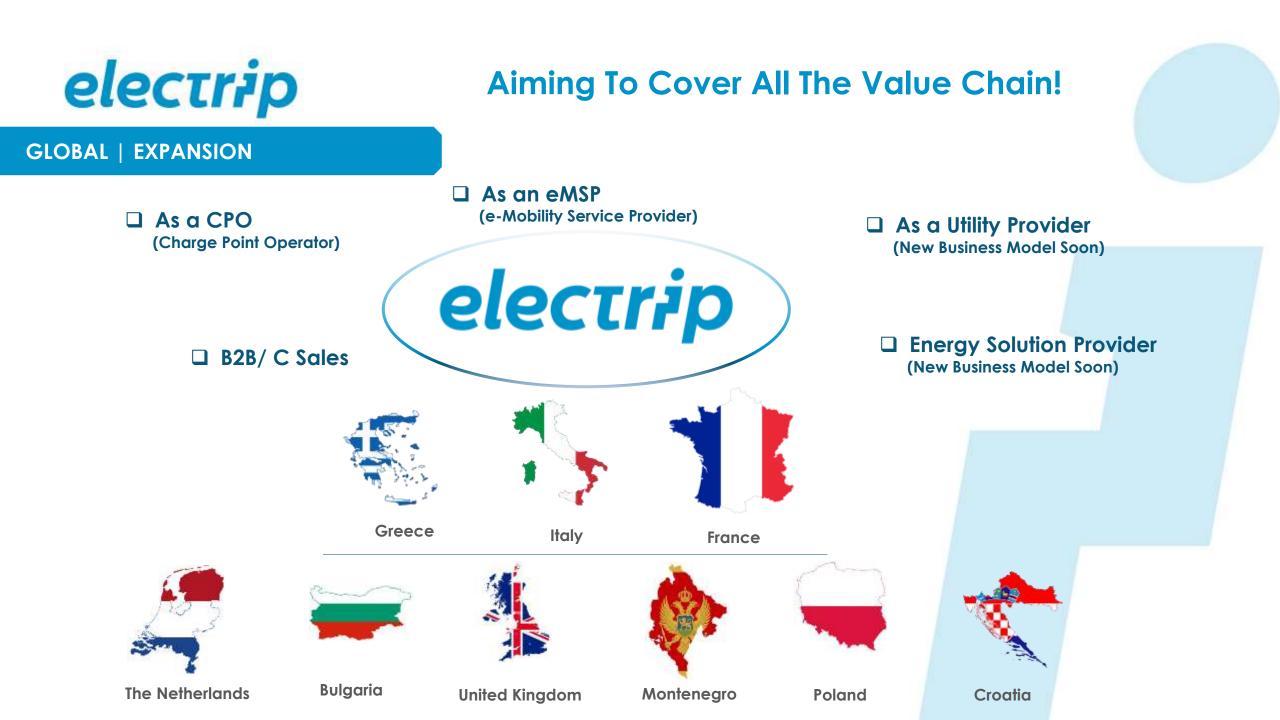
## Zorlu Company Highlights

Electrip

## **EV Market in Greece and Europe**







#### electrip | ALL SERVICES UNDER ONE UMBRELLA

#### **Solutions for All Your Electric Vehicle Needs**





- International certificated AC & DC charging station options
- Possibility to update device features and exterior design according to your needs

#### Free End User Mobile Application

•

Application-

Platform

- Charging Station
  Operation and Mobility
  Services integration
- Charging Station Data
  Management

 Charging Station installation service & infrastructure support

Installation

- Provide installation service on different branded devices
- Procurement of balance of equipment





- Public Charging
  Network Operation
- Maintenance
- Service in case of breakdown and relocation
- Call Center

• R&D studies

#### Public Charging (CPO & EMSP)

## Best customer experience in Europe

- □ 7/24 Customer Support
- fastest devices
- all-digital experience includes charging through mobile app via QR code, digital payment, reservation etc.



#### **Fleet Charging**

End-to-end charging services provided to EV-fleets

#### Some key customers:

- Five biggest EV-rental companies in TR,
- Several municipalities,
- Several corporate fleets

#### **Proposed services:**

- Public charging services to fleets and/or their customers,
- DC/AC device supply and infrastructure installation,
- Digital services including fleet management, billing services etc.

#### **Residental Charging**

#### PRIVATE / SHARED

End-to-end charging services are provided to residential customers to both shared areas (building complexes, offices, car parking areas) and private places (houses and workplaces)

#### **Proposed services:**

- DC/AC device supply and infrastructure installation,
- Software services including customer and device management
- Billing services and electricity offerings



#### **PRODUCTS & SERVICES**

### electrip Hardware Systems

CHARGING STATIONS (AC & DC)





### electrip Software Systems

**ELECTRIP CARD & MOBILE APP** 

#### **INHOUSE SOFTWARE**







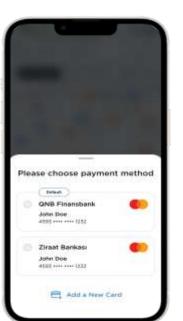
### Simple | Catchy | Useful | User- friendly Mobile App



View nearest charging stations to you

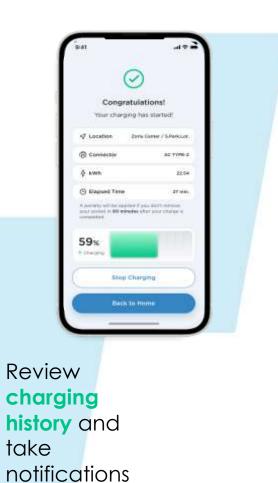


Make reservation before charging



Add credit / debit cards to make **digital** payment







SERVICES | INSTALLATION & MAINTENANCE TEAMS

- Personal use of electric vehicle owners
- □ Free technical inspection service
- Free installation if the customer prepares the infrastructure
- Technical inspection & turnkey service both same day
- □ Technical support in case of breakdown & relocation
- Installation of not only electrip, but also different branded devices
- Possibility of safely store devices in electrip warehouses

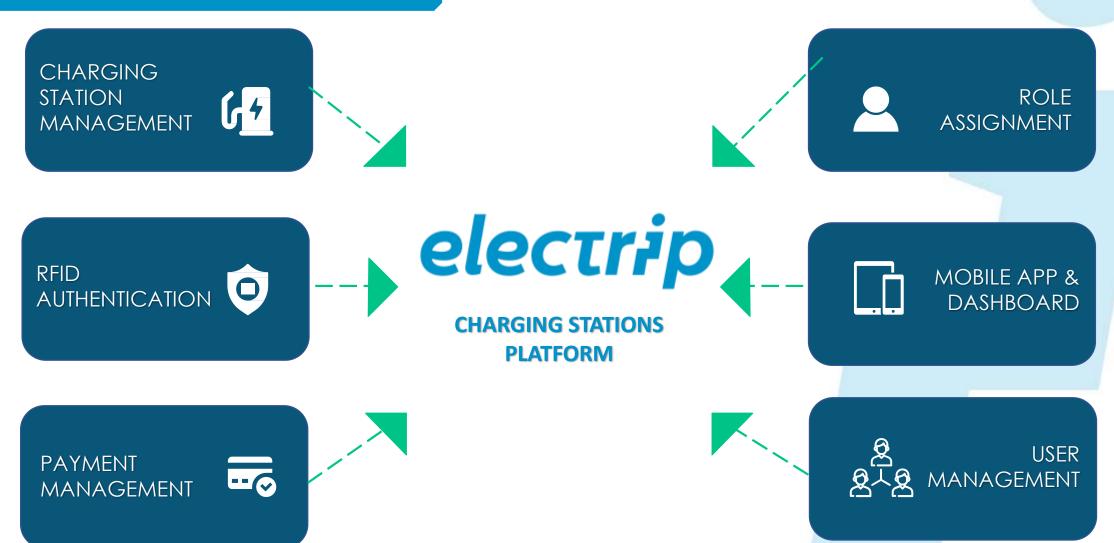








SERVICES | SOFTWARE & PLATFORM OVERVIEW





AWARD WINNING SERVICE





Awards in 2021

- Sustainable Service of the Year
- Best Sustainable Product and Process
- Low Carbon Heroes

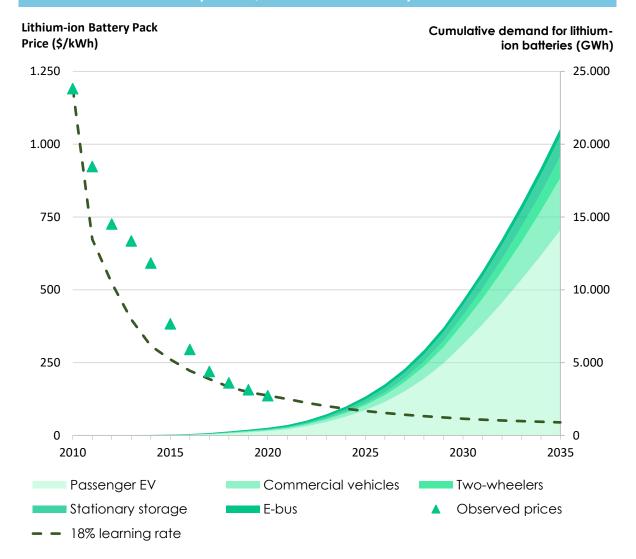
## Zorlu Company Highlights

Electrip

## **EV Market in Greece and Europe**

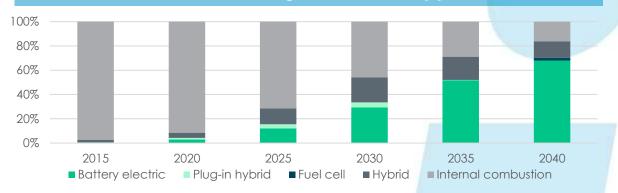


#### LONG TERM GROWTH OF EV MARKET



EV Battery Price / Cumulative Battery Demand (1)

Global Passenger Vehicle Sales (1)

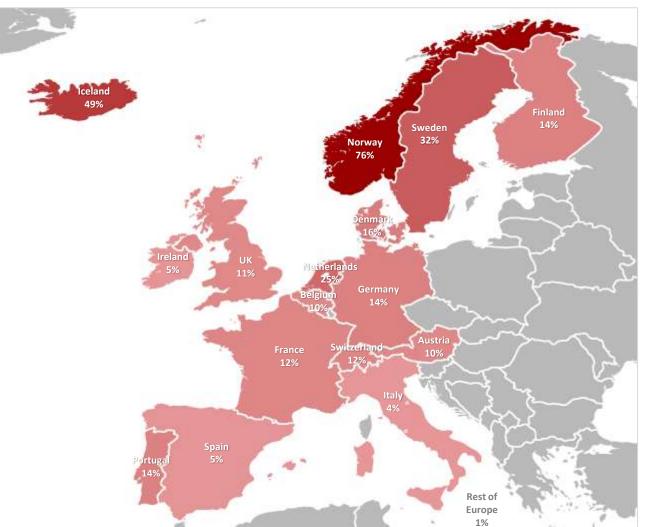


#### Strategic OEM Targets for EVs <sup>(2)</sup>



(1) BNEF, 2021 (2) Delloitte, 2021

#### CHARGING INFRA. IN THE HEARTH OF EV TRANSFORMATION

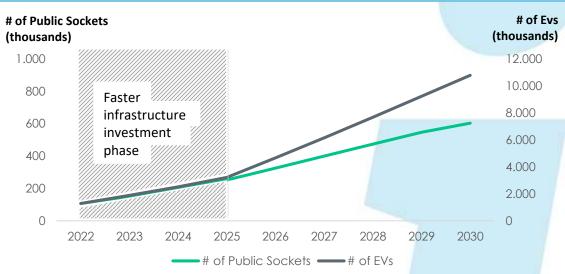


#### EV Penetration in Europe(1)

#### France Switzerland Austria 10% National Targets fo Phase Out Internal Combustion Engines(1)

#### 2030 2040 2025 Sweden Norway Netherlands Costa Rica France Denmark Slovenia Spain Iceland ÷ Canada Ireland U.K. Israel Singapore ÷

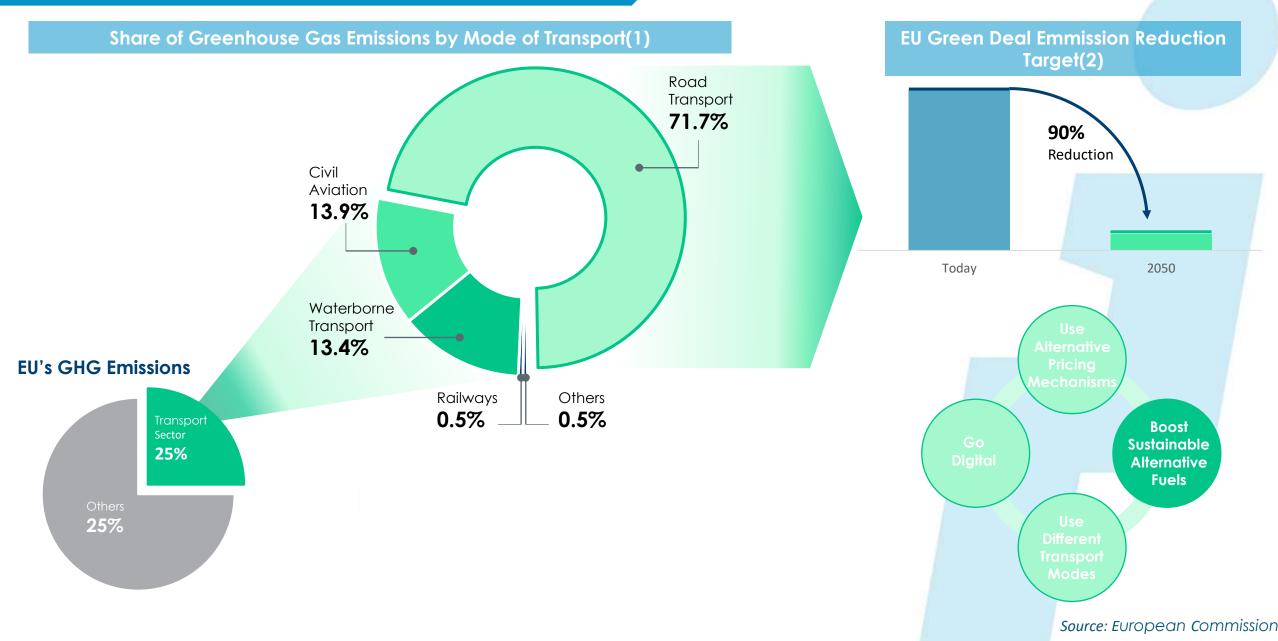
#### Infrastructure investments will trigger a faster EV transformation<sup>(2)</sup>



Cumulated values for Bosnia and Herzegovina, Bulgaria, Croatia, Czechia, Greece, Hungary, Italy, Montenegro, Poland, Romania, Serbia, Slovakia, Slovenia and Turkey.

(1) BNEF, 2020
 (2) ZES Internal Analysis based on Transport Environment 2Zero & McKinsey, 2020

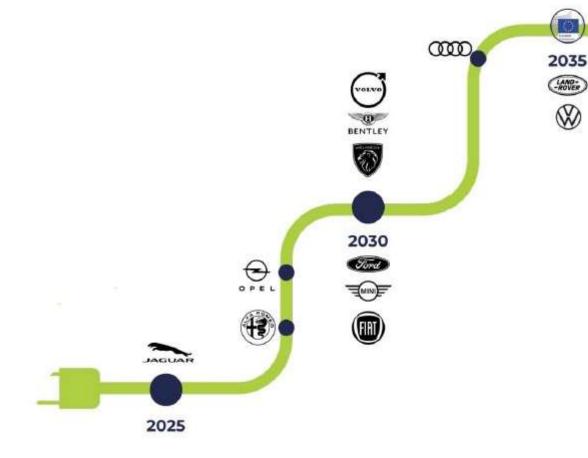
#### **EV CHARGING FOR SUSTAINABILITY**







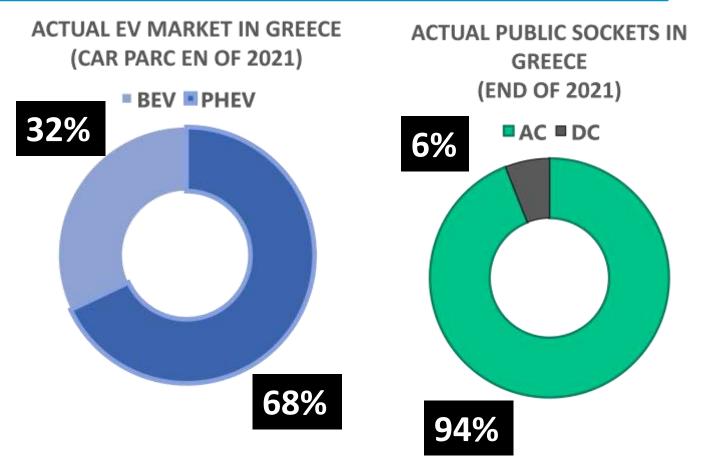
#### AUTOMOTIVE GOING ELECTRIC



- Industry players are accelerating the speed of automotive technology innovation
- The industry has attracted more than \$100 billion at the beginning of 2020.
- EVs would need to account for 75 percent of passenger car sales globally by 2030.
- Electrification will cause a major shift in the entire automotive supply chain

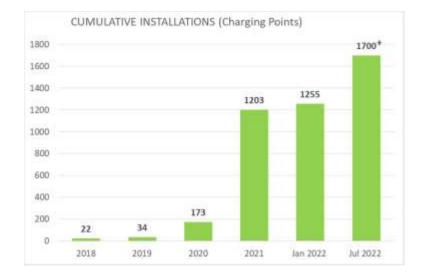
Source: Avere

#### **EV MARKET IN GREECE**

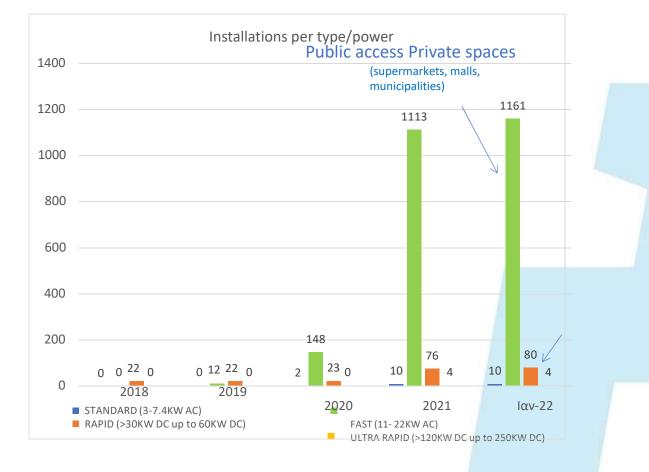


- Greece has more than 1585 AC charging stations .
- Also has more than 150 DC fast charging stations.
- As of 2022 year end, there will be more than 2000 sokets



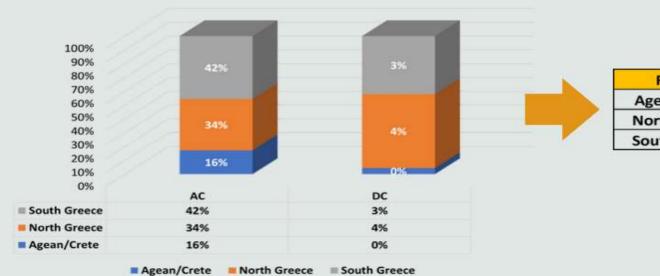


• <u>REGISTRY OF INFRASTRUCTURE & ELECTRIC MOBILE MARKET</u> <u>AGENCIES Initial phase of operation (from 6/6/2022, registration of</u> <u>agencies).http://electrokinisi.yme.gov.gr</u>



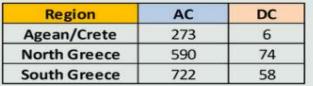
Sources: ΦΕΥΦΗΟ & Plugshare.com

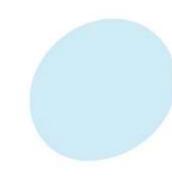




#### Percentages by region-based Power Types

Source: Next Geo



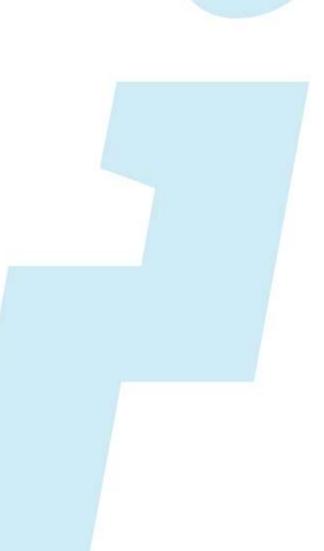




### MARKET IN GREECE

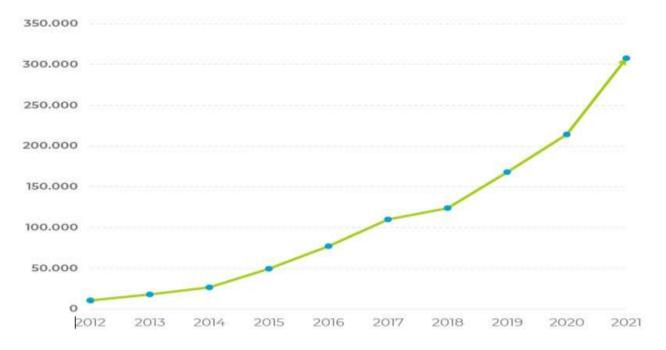


According to the forecast graph, the average number of stations in Stational Energy and Climate Plan, 2019 Greece at the end of the year will be "2246".





#### **GROWTH OF CHARGING INFRASTRUCTURE IN EUROPE**



#### DISTRIBUTION OF ELECTRIC CAR CHARGING POINTS ACROSS THE EU

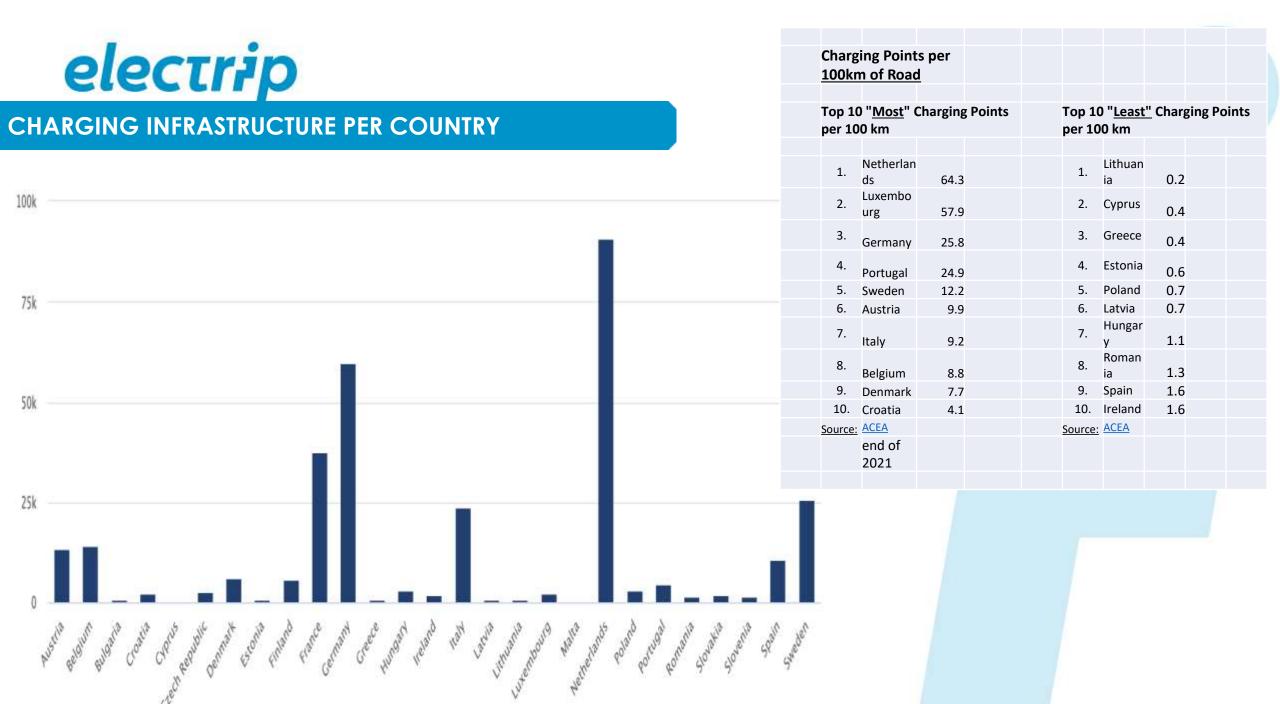
#### Some 50% of all charging points: Concentrated in just 2 EU countries

29.4% Netherlands 19.4% Germany
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#### Top 5: Fewest charging points in 2021

Cyprus 57		Malta 98		Lithuania 207
	Estonia		Latvia	
	385		420	

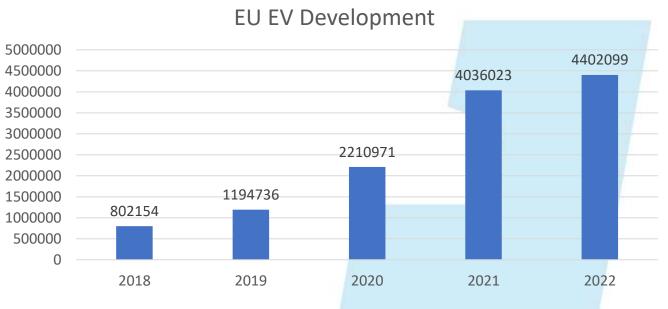






#### **GROWTH OF EVs IN EUROPE**

Counry				
PHEV	BEV	Total		
332,967	611,570	944,537		
126,159	118,862	245,020		
50,334	59,889	110,222		
138,060	149,112	287,172		
1,285	3,615	4,900		
21,720	19,556	41,276		
431,212	592,044	1,023,256		
11,289	5,278	16,567		
1,961	3,189	5,150		
247,111	308,254	555,365		
174,906	315,443	490,349		
2020-2025 ZES Market Tahmini & EAFO				
ZAP-MAP				
	PHEV 332,967 126,159 50,334 138,060 1,285 21,720 431,212 11,289 1,961 247,111 174,906 2020-2025 ZES Mark	PHEV    BEV      332,967    611,570      126,159    118,862      50,334    59,889      138,060    149,112      1,285    3,615      21,720    19,556      431,212    592,044      11,289    5,278      1,961    3,189      247,111    308,254      174,906    315,443      2020-2025 ZES Market Tahmini & EAFO		



- electric car sales continued to increase in 2021 by more than 65% year-on-year to 2.3 million
- 2016-2021 period, EV sales in Europe increased by a compound annual growth rate (CAGR) of 61%, the world's highest

Source: https://www.iea.org/reports/globalev-outlook-2022/trends-in-electric-light-dutyvehicles



# **Thank You!**

