

ZORLUENERJi

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4 GEOTHERMAL POWER PLANTS

305 MWINSTALLED POWER



WIND FARMS

191,4 MWTOTAL CAPACITY



HYDROELECTRIC POWER PLANT

118,9 MW
TOTAL CAPACITY



SOLAR POWER PLANT

1,5 MW
CAPACITY



ELECTRICITY DISTRIBUTION

2,6 MCUSTOMERS

6,3 TWh
DISTRIBUTED ENERGY



EV CHARGING STATIONS

4085

EV SOCKET CAPACITY

ZORLU ENERJI



QUICK LOOK

ONGOING

9

- 2 Horizon2020
- 1 Era-NET Geothermica
- 4 Horizon Europe
- 1 Eurogia
- 1 TENMAK

COMPLETED

5

- 2 Horizon2020
- Era-NET ACT
- l Eurogia2020
- 1 ITEA3

OEDAŞ

19

- 1 Horizon2020
- 1 HorizonEurope
- 17 EMRA

15 EMRA 3 Horizon2020



TIMELINE

2018





2019









FlexiGrid



2020





2021



2022





2023





SEHRENE

EOLIAN

nGEL

5+

2024

new project proposal





RESEARCH AREAS

		PREDICTIVE MEINTENANCE				
		BIG DA	ATA & AI			
	RENOVATION & GREE					
		GREEN H	HYDROGEN			
BATTERY & ALTERNATIVE STORAGE TECHNOLOGIES						
e - MSP	SMART GRID	RECYCLING			CCUS	
СРО	CUTTING EDGE TECH.				LITHIUM EXTRACTION	
UX	GRID PLANNING				GEOTHERMAL BRINE	
	DERs - EVs					
EV CHARGING	DSO	WIND	SOLAR	HYDROPOWER	GEOTHERMAL	

Planning to have follow-up projects:

Geothermal Power Plants with Zero Emissions



GEOTHERMAL EMISSION CONTROL

Horizon2020

https://geco-h2020.eu/



SYNERGETIC UTILISATION OF CO2 STORAGE

COUPLED WITH GEOTHERMAL ENERGY DEPLOYMENT

ACT-ERANET

- Reducing emissions originating from geothermal power plants and observing the effects of re-injected carbon dioxide on the reservoir
- Development and global popularisation of CO2 re-injection technologies.
- Purification and regaination of Non-Condensable Gases
- Investigation of the effects of carbon dioxide re-injected back into the reservoir on seismic activity and other wells





KIZILDERE III GPP

2024 Target Calls



CALL		ZORLU ENERJİ CONTRIBUTION
HORIZON-CL5-2024-D5-01-01	Smart, low-cost pervasive stationary slow charging and bi-directional solutions synergic with the grid for EV mass deployment (2ZERO Partnership)	EV Charging stations, DSO
HORIZON-CL5-2024-D4-01-02	Smart grid-ready buildings	Geothermal heating, EV Charging stations, DSO
HORIZON-CL5-2024-D2-01-03	Development of technical and business solutions to optimise the circularity, resilience, and sustainability of the European battery value chain (Batt4EU Partnership)	Lithium extraction from geothermal brines
HORIZON-CL5-2024-D3-02-02	Development of next generation synthetic renewable fuel technologies	Methanol synthesis from geothermal hydrogen and CO ₂
HORIZON-CL5-2024-D3-02-10	Market Uptake Measures of renewable energy systems	Data provider
HORIZON-CL5-2024-D3-02-05	PV-integrated electric mobility applications	PV charging stations

