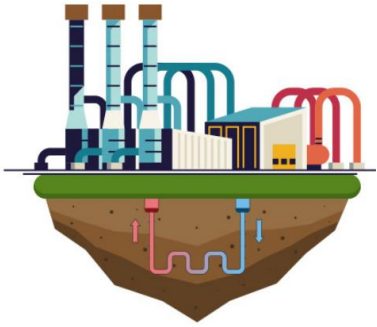


ZORLUENERJİ

ZORLUENERJİ

AR-GE



4

GEO THERMAL
POWER PLANTS

305 MW

INSTALLED POWER



2

WIND FARMS

191,4 MW

TOTAL CAPACITY



7

HYDROELECTRIC
POWER PLANT

118,9 MW

TOTAL CAPACITY



1

SOLAR
POWER PLANT

1,5 MW

CAPACITY



ELECTRICITY DISTRIBUTION

+3 M

CUSTOMERS

6,7 TWh

DISTRIBUTED ENERGY



EV CHARGING STATIONS

4507 Türkiye

880 Europe

EV SOCKET CAPACITY



QUICK LOOK

ONGOING

COMPLETED

ZORLU ENERJİ

9

- 1 Era-NET - Geothermica
- 5 Horizon Europe
- 1 Eurogia
- 1 TENMAK
- 1 SMART

7

- 4 Horizon2020
- 1 Era-NET ACT
- 1 Eurogia2020
- 1 ITEA3

OEDAŞ

19

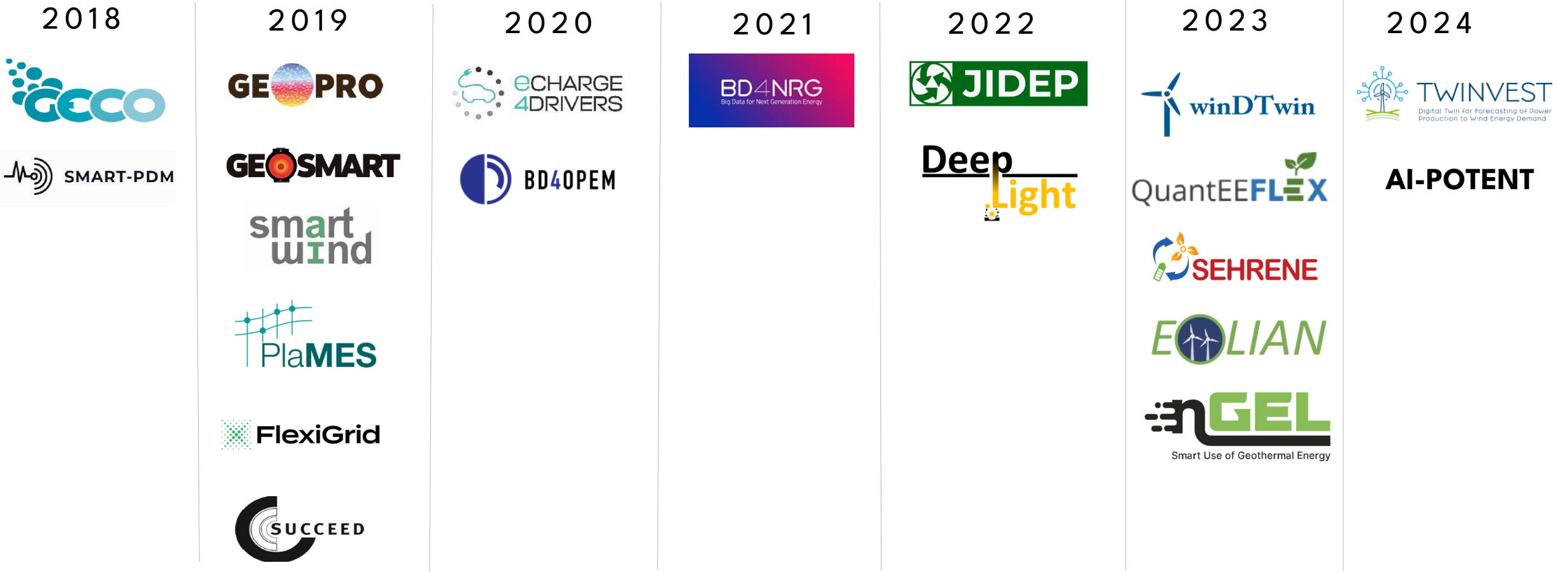
- 1 Horizon2020
- 1 HorizonEurope
- 17 EMRA

13

- 15 EMRA
- 3 Horizon2020



TIMELINE



RESEARCH AREAS

	PLANT OPTIMISATION & DIGITALIZATION				
	PREDICTIVE MAINTENANCE				
	HYBRID SYSTEMS				
RENOVATION & GREEN CONVERSION					
GREEN HYDROGEN					
BATTERY & ALTERNATIVE STORAGE TECHNOLOGIES					
e - MSP	SMART GRID	RECYCLING			CCUS
CPO	GRID PLANNING	DATA TRANSMISSION			LITHIUM EXTRACTION
UX	DER _s - EV _s				HEATING&COOLING
					EXPLORATION
EV CHARGING	DSO	WIND	SOLAR	HYDROPOWER	GEOTHERMAL



PARTNERSHIPS

ZORLUENERJİ

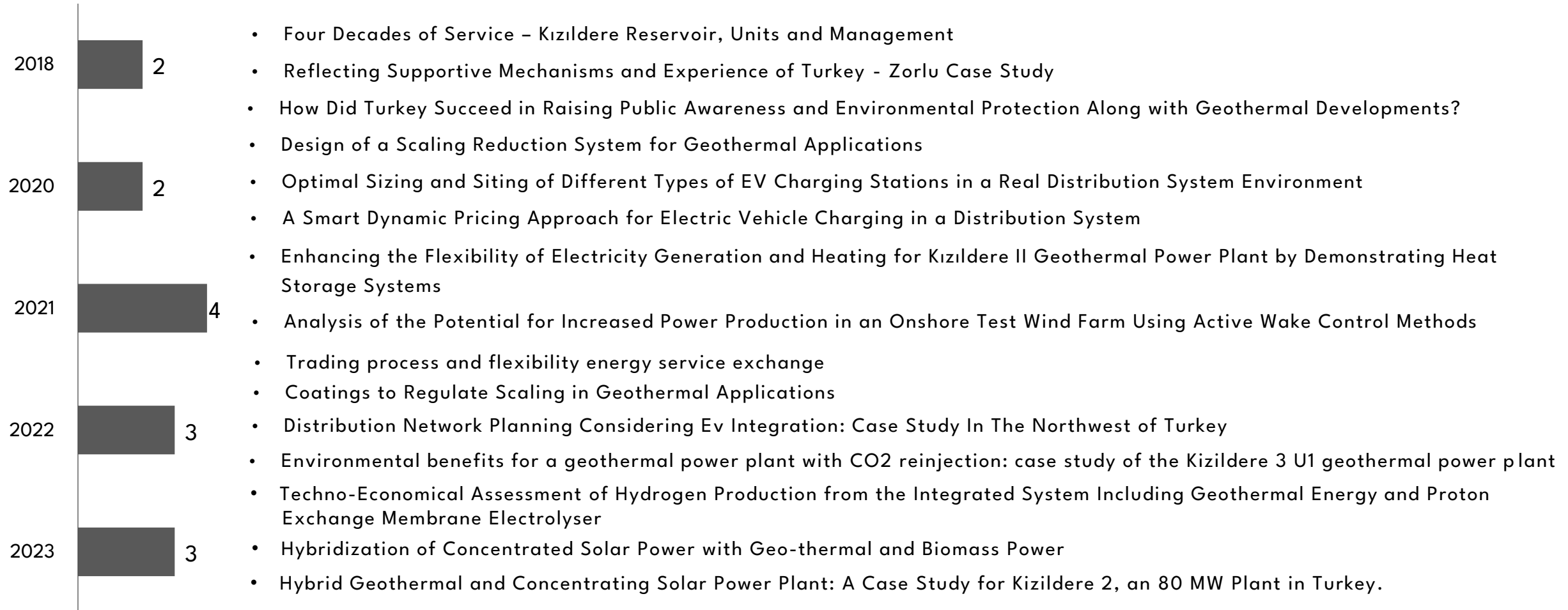
20+
Countries

100+
PARTNERS

Universities
Research Institutions
Companies
SMEs



PUBLICATIONS





GEOHERMAL EMISSION CONTROL

PROJECT GOALS

- Geothermal Power Plants with zero emissions
- Purification and regaination of Non-Condensable Gases
- Development and global popularisation of CO2 re-injection technologies.
- Improvement of environmentally green and nature friendly Geothermal Power Plants

BUDGET

TOTAL: 18.220.330,50 EUR
ZOREN: 900.091,91 EUR

GRANT

Horizon2020 - %70

DURATION

48 Months

ROLES



CO2 INJECTION

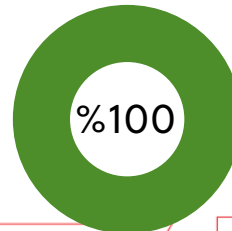


MONITORING



RESERVOIR
MODELING

PROGRESS



KIZILDERE III GPP





SYNERGETIC UTILISATION OF CO₂ STORAGE COUPLED WITH GEOTHERMAL ENERGY DEPLOYMENT



KIZILDERE II GPP

PROJECT GOALS

- Reducing emissions originating from geothermal power plants and observing the effects of re-injected carbon dioxide on the reservoir.
- Supplying the purified carbon dioxide and pumping it back into the reservoir under supercritical conditions.
- Investigation of the effects of carbon dioxide re-injected back into the reservoir on seismic activity and other wells.

BUDGET

TOTAL: 4.000.000,00 EUR

GRANT

ACT -ERANET

DURATION

36 Months

ROLES



DEMONSTRATION

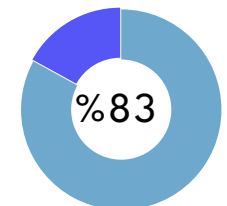


MONITORING



TECHNICAL
EXPERTISE

PROGRESS





ELECTRIC VEHICLE CHARGING FOR IMPROVED USER EXPERIENCE



PROJECT GOALS

- Improving the charging experience of EV users, including long distance journeys,
- Integrating of ISO 15118 Plug & Charge into existing software,
- Making improvements on existing software for more advanced route planning and reservation process,
- Testing of user-friendly charging stations developed in our pilot region with various scenarios.

BUDGET

TOTAL: 18.405.861,25 EUR
ZOREN: 533.125,00 EUR

GRANT

Horizon2020 - %70

DURATION

48 Months

ROLES



DEMONSTRATION

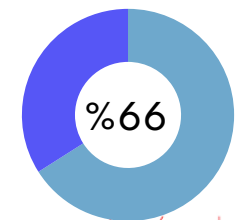


e-MSP



DATA PROVIDING

PROGRESS



GEOSMART SMART AND FLEXIBLE GEOTHERMAL POWER PLANTS

PROJECT GOALS

- Compensation of fluctuations that occur on the grid because of the integration of renewable energy sources to the grid by thermal storage.
- Testing of thermal storage (as steam and hot water) which will be used in geothermal energy for the first time.
- Developing decision making and optimisation of electricity production between district or greenhouse heating.
- Designing more efficient and high-capacity power plants by decreasing reinjection temperatures.

BUDGET

TOTAL: 19.727.611,25 EUR
ZOREN: 860.312,05 EUR

GRANT

Horizon2020 - %70

DURATION

48 Months

ROLES



DEMONSTRATION

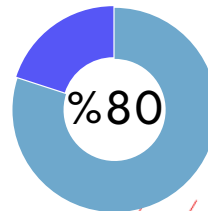


MONITORING



TECHNICAL
EXPERTISE

PROGRESS



KIZILDERE II GPP



ACCURATE GEOFLUID PROPERTIES AS KEY TO GEOTHERMAL PROCESS OPTIMISATION

PROJECT GOALS

- Developing the Flow Assurance method for geothermal energy.
- Solving the problems experienced in the measurement of properties due to bi-phase flow, non-condensable gases and minerals in the geothermal fluid content with newly developed methods.
- Researching new methods required to decrease the reinjection temperatures and integrating them to the geothermal energy sector.

BUDGET

TOTAL: 4.898.982,50 EUR
ZOREN: 312.750,00 EUR

GRANT

Horizon2020 - %100

DURATION

36 Months

ROLES



TECHNICAL DATA
PROVIDING



MONITORING



REPORTING

PROGRESS



KIZILDERE III GPP



SMART WIND ASSET O&M PLANNING



GÖKÇEDAĞ WIND FARM

PROJECT GOALS

- Creating a decision support system for data analysis, performance diagnosis and operation maintenance works by collecting data from SCADA and sensor systems in a cloud infrastructure in order to reduce operating costs and increase electricity production in wind power plants.
- Economic gain by reducing operation and maintenance costs with decision support system.

BUDGET

TOTAL: 1.500.000,00 EUR

GRANT

EUROGIA - %60

DURATION

36 Months

ROLES

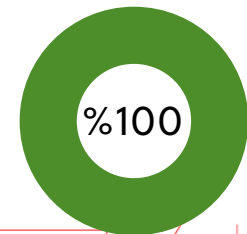
DATA PROVIDING



DEMO SITE



MONITORING

PROGRESS



JOINT INDUSTRIAL DATA EXCHANGE PIPELINE

PROJECT GOALS

- Wind turbines produced from composite material. The possibility of reuse composite material from the recycling will be tested for end of life turbines.
- JIDEP takes industrial data and offers a sustainable solution for its participants. Circular economy getting important according to that JIDEP offer more sustainable materials, products, services and solutions.

BUDGET

TOTAL: 2.224.726,25 EUR
ZOREN: 168.375,00 EUR

GRANT

Horizon Europe - %100

DURATION

36 Months

ROLES

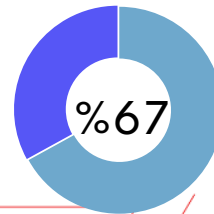
DATA PROVIDING



MONITORING



MATERIAL
PROVIDING

PROGRESS



SEHRENE: STORE ELECTRICITY AND HEAT FOR CLIMATE NEUTRAL EUROPE

PROJECT GOALS

- SEHRENE's new electrothermal energy storage (ETES) concept is designed to store renewable electricity (RE) and heat and to restitute it as needed.
- It will reduce carbon emissions through waste heat recovery and provide backup power during power outages through storage.

BUDGET

TOTAL 4.339.829,25 EUR
ZOREN: 161.937,50 EUR

GRANT

Horizon Europe - %100

DURATION

42 Months

ROLES

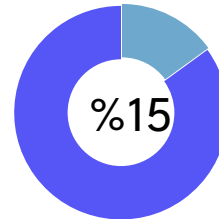


DATA PROVIDING



TECHNICAL
EXPERTISE

PROGRESS





EOLIAN: BIO-BASED, REPAIRABLE, AND RECYCLABLE VITRIMER COMPOSITES AND ADVANCED SENSORS FOR HIGHLY RELIABLE AND SUSTAINABLE WIND BLADES

PROJECT GOALS

- Develop an innovative new smart wind turbine blade, manufactured from an infinitely recyclable circular platform chemistry, with in-mould electronics that detect damage.
- Obsolete single-use engineering resins in wind blade manufacture.
- Validate the performance claims through the manufacture, testing and benchmarking of a smart sensor-assisted vitrimer-based composite 14m prototype.

BUDGET

TOTAL: 3.998.388,75 EUR
ZOREN: 198.125,00 EUR

GRANT

Horizon Europe - %100

DURATION

42 Months

ROLES

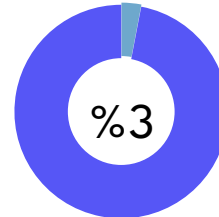


DATA PROVIDING



TECHNICAL
EXPERTISE

PROGRESS





WIND DIGITAL TWIN FOR COST-EFFECTIVE WIND FARM DESIGN, OPTIMAL OPERATION, ENERGY MARKET PARTICIPATION, AND PREDICTIVE MAINTENANCE.

PROJECT GOALS

- Development of an innovative and integrated Wind Digital Twin to improve the design, operation and maintenance of wind farms through a number of analytical and optimisation tools, as well as consider new business models, such as participating in local energy markets.

BUDGET

TOTAL: 3.280.146,00 EUR
ZOREN: 698.125 EUR

GRANT

Horizon Europe - %60

DURATION

36 Months

ROLES



COORDINATOR

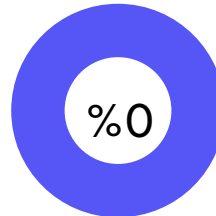


DEMONSTRATION



DATA PROVIDING

PROGRESS





nGEL: NEXT GENERATION FLEXIBLE TRIGENERATION GEOTHERMAL ORC PLANT

PROJECT GOALS

- To achieve flexible tri-generation geothermal power plants via integration of heating, cooling and additional power generation equipment and improve overall efficiency.
- With the volatility of power grids due to increasing number of renewable energy systems, nGEL aims to enable geothermal power plants to work in reserve markets.

BUDGET

TOTAL: 6.106.965,00 EUR
ZOREN: 1.996.250 EUR

GRANT

Horizon Europe- %100

DURATION

48 Months

ROLES



DEMONSTRATION

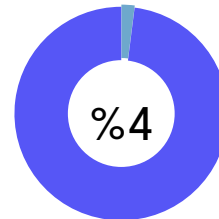


DATA PROVIDING



TECHNICAL
EXPERTISE

PROGRESS





A SMART PREDICTIVE MAINTENANCE APPROACH BASED ON CYBER PHYSICAL SYSTEMS

PROJECT GOALS

- Carrying out predictive maintenance studies in wind power plants,
- By detecting malfunctions that may occur on the system at an early stage with predictive maintenance methods, shortening downtime and ensuring maximum production.
- Decreasing maintenance and equipment replacement costs.

BUDGET

TOTAL: 9.000.000,00 EUR

GRANT

ITEA 3 - %60

DURATION

36 Months

ROLES



DATA PROVIDING

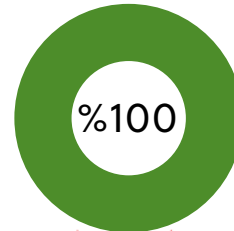


MONITORING



DEMO SITE

PROGRESS



GÖKÇEDAĞ WIND FARM





NOVEL CONCEPT TO CONSTRUCT COST EFFECTIVE GEOTHERMAL WELLS WITH ELECTRO PULSED POWER TECHNOLOGY



PROJECT GOALS

- Creating a more efficient way for geothermal drilling
- Development of pulse power generator for specific use
- Integration of pulse power technology with drilling technology
- Improvement of geothermal district heating systems by finding feasible ways for geothermal liquid production

BUDGET

TOTAL: 4.938.500 EUR
ZOREN: 80.000 EUR

GRANT

ERA-NET
GEOTHERMICA (JPP SES) - %60

DURATION

36 Months

ROLES



DATA PROVIDING

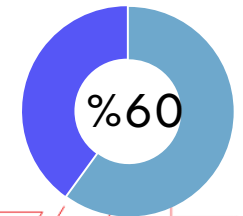


TECHNICAL
EXPERTISE



MONITORING

PROGRESS





UNIVERSAL, OPEN-SOURCE AND CYBERSECURE DIGITAL TWIN TO
PROVIDE INVESTORS IN ONSHORE WIND FARMS VALUABLE
INSIGHTS ABOUT CURRENT OPERATIONS AND FUTURE INVESTMENTS

PROJECT GOALS

- Creating the foundations of a universal, open-source and cybersecure Digital Twin
- Guiding investment decisions in wind energy, the innovative DT provided by TWINVEST will significantly simplify investment decision-making processes.

BUDGET

TOTAL: 5 870 829.98 EUR
ZOREN: 251.000 EUR

GRANT

Horizon Europe - %100

DURATION

42 Months

ROLES



DATA PROVIDING

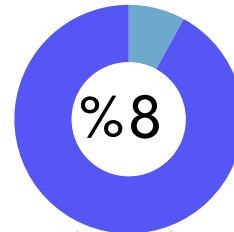


MONITORING



DEMO SITE

PROGRESS



GÖKÇEDAĞ WIND FARM



ESKİŞEHİR DEMO SITE

PROJECT GOALS

- Being prepared for the problems that may arise with the increase in the integration of distributed production,
- The use of electric vehicles and battery storage systems for flexibility,
- Testing electric vehicle to grid (V2G) energy transfer technology and establishing infrastructure for OEDAŞ.
- Establishing infrastructure for the electric distribution companies of the future

BUDGET

TOTAL: 10.398.905,00 EUR
OEDAS: 852.696 EUR

GRANT

HORIZON2020 - %70

DURATION

45 Months

ROLES

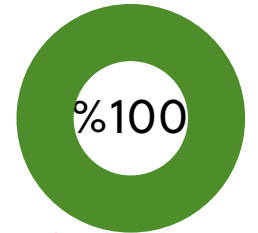
DEMONSTRATION



DATA PROVIDING



MONITORING

PROGRESS

%100

INTEGRATED PLANNING OF MULTIENERGY SYSTEMS

PROJECT GOALS

- Development of a planning application integrated with multi-energy systems accross Europe,
- Along with production and storage, handling of transmission and distribution systems in an integrated manner during the planning and operation,
- Establishing a sustainable and green distribution network by using the grid flexibility and integration of renewable energy sources.

BUDGET

TOTAL: 2.659.002,50 EUR
OEDAS: 289.375 EUR

GRANT

HORIZON2020 - %100

DURATION

36 Months

ROLES



DATA PROVIDING

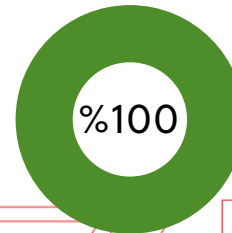


PILOT ZONE



TECHNICAL EXPERTISE

PROGRESS



ESKİŞEHİR PILOT ZONE

PROJECT GOALS

- Studying the effects of preventive maintenance, measurement error detection, grid constraint simulations, grid failure simulations, PV, EV, and new loads on grid.
- Managing of demand side with flexibility and making calculations on Solar Power Plants for area domination instead of new investments,
- Integration of relevant digital technologies to energy sector in an efficient way.

BUDGET

TOTAL: 9.824.179,00 EUR
OEDAS: 601.250 EUR

GRANT

HORIZON2020 - %70

DURATION

42 Months

ROLES



PILOT ZONE

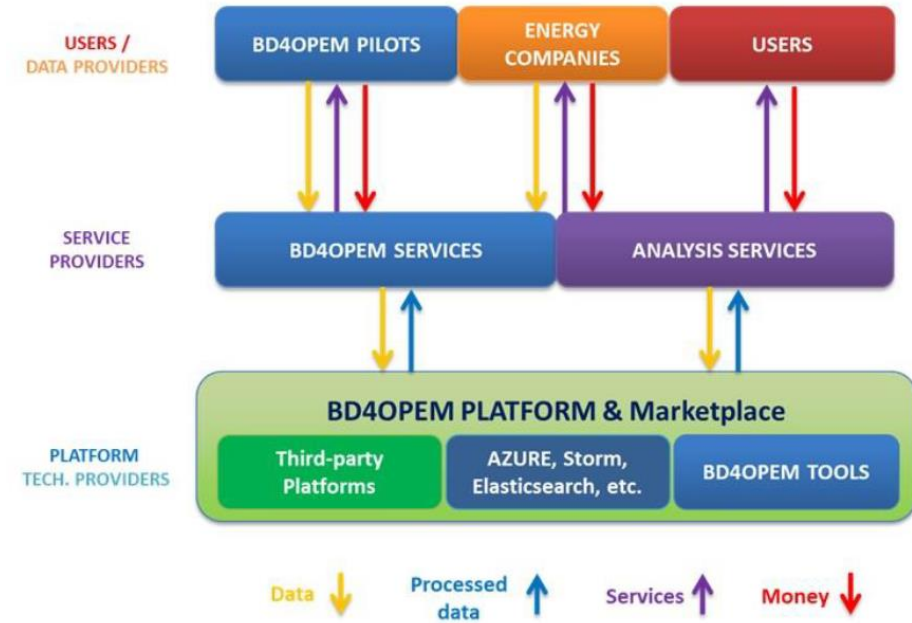
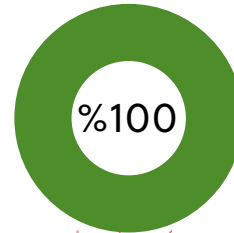


TESTING



DATA PROVIDING

PROGRESS



BIG DATA FOR NEXT GENERATION ENERGY

PROJECT GOALS

- Ensuring the reliability and efficiency of electricity grid operation and planning, owing to big data technologies,
- Based on AI-Based predictive maintenance results, allowing operators to avoid failures, connecting new resources to the optimal points of the network and plan investments where they are needed most,
- Evaluating energy efficiency and financial investments for renewable energy in a more reliable way,
- Better execution of operational performance monitoring.

BUDGET

TOTAL: 8.365.202,05 EUR
OEDAS: 265.500 EUR

GRANT

HORIZON2020 - %70

DURATION

36 Months

ROLES



PILOT ZONE

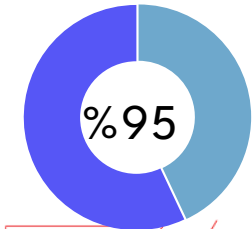


GRID PLANNING



DATA PROVIDING

PROGRESS

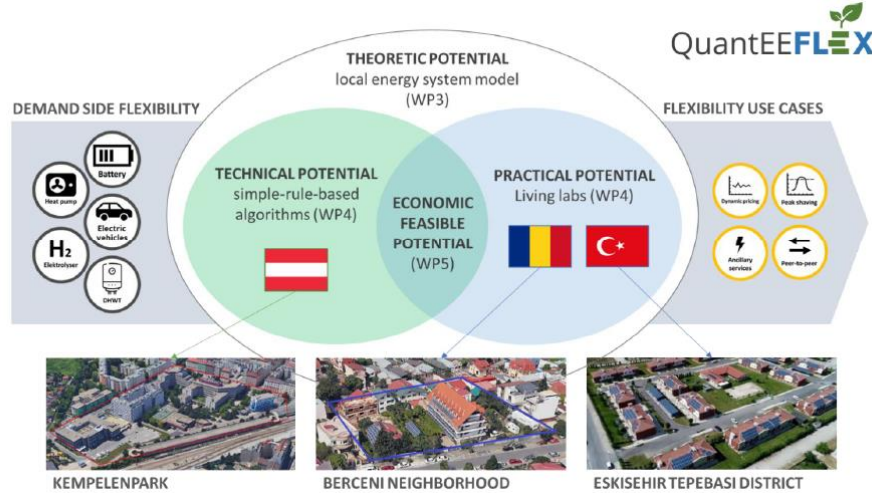


ESKİŞEHİR PILOT ZONE



PROJECT GOALS

- QuantEEFlex aims at quantifying the economic, technical and environmental value of energy flexibility within urban districts..



BUDGET

OEDAS: 74.000 EUR

GRANT

HORIZON2020 - %60

DURATION

24 Months

ROLES



PILOT ZONE

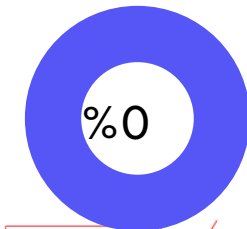


GRID PLANNING



DATA PROVIDING

PROGRESS



ESKİŞEHİR PILOT ZONE

DEVELOPING SOLUTIONS TO PREVENT LONG TERM INTERRUPTIONS DUE TO ICE LOAD IN ELECTRICITY DISTRIBUTION NETWORKS

PROJECT GOALS

- Developing solutions for minimizing long-term interruptions caused by ice load, and ensuring their feasibility,
- To prepare the infrastructure for the analysis of ice load in electricity distribution networks with analytical and technological methods,
- To raise awareness for distribution regions where ice load problems are experienced,
- Contribute to the development of standards for criteria/standards such as equipment/design/topology for regions with ice load problems,

BUDGET

TOTAL: 1.405.000 TL
OEDAS: 472,500 TL

GRANT

EMRA - %100

DURATION

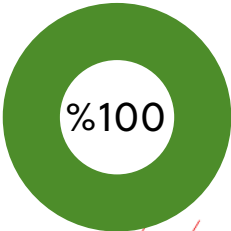
18 Months

ROLES



PILOT ZONE

PROGRESS



DEVELOPING A REFERENCE COMPANY METHODOLOGY AND MODEL FOR PREPARING REVENUE REQUIREMENTS IN THE ELECTRICITY DISTRIBUTION SECTOR

PROJECT GOALS

- A comparative analysis of the legislation and regulations for the electricity distribution sector, the evaluation of the 'Yardstick Competition' model over different criteria (regional conditions, technical requirements, regulations)
- Preparation of operating income requirements in accordance with the conditions of the Turkish electricity distribution sector.

BUDGET

TOTAL: 5.299.500 TL
OEDAS: 275.929 TL

GRANT

EMRA - %100

DURATION

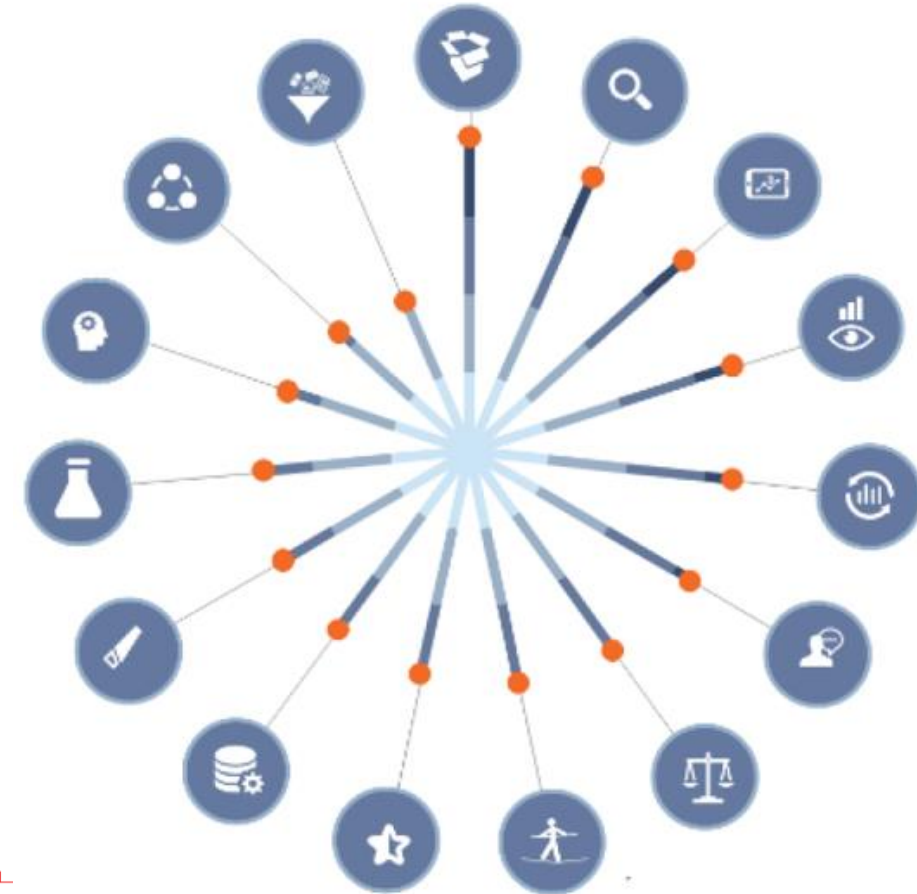
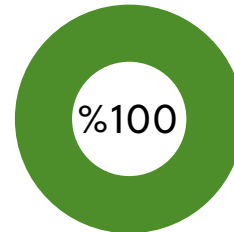
36 Months

ROLES



RESEARCHING

PROGRESS



INVESTIGATION OF THE EFFECTS OF CHARGING STATIONS AND ELECTRIC VEHICLES ON THE GRID AND DEVELOPMENT OF NECESSARY DOMESTIC SOFTWARE FOR OPTIMIZING THESE LOADS

PROJECT GOALS

- Examining the current usage areas of electric vehicle charging stations and establishing standards,
- Simulating charging stations and electric vehicles on the existing network with real data,
- Observing the effects of charging stations on transformers according to usage intensity,
- Reducing the network load by spreading the peak consumption in the daily supply-demand balance to other hours of the day,
- Developing a domestic software to optimize the usage time of the charging stations and the maximum power,
- Keeping the network service quality high to operate during peak hours with renewable energy,
- Evaluating the applicability in regional conditions,

BUDGET

TOTAL/OEDAS: 3.725.000 TL

GRANT

EMRA - %100

DURATION

28 Months

ROLES



RESEARCHING

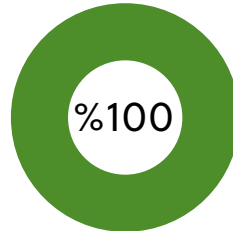


TESTING



REPORTING

PROGRESS



RECTIFIER DEVELOPMENT PROJECT COMPATIBLE WITH SCADA SYSTEMS WITH HIGH EFFICIENCY BATTERY CHARGING SYSTEM AND DUAL CONTROL UNIT

PROJECT GOALS

- Preventing faults caused by DC rectifiers in electricity grid distribution buildings with a new and local rectifier system design.
- Developing low-cost, high-reliability and domestic technological products

BUDGET

TOTAL / OEDAS: 770.000 TL

GRANT

EMRA - %100

DURATION

15 Months

ROLES



RESEARCHING

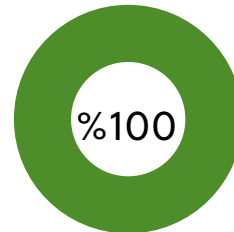


TESTING



REPORTING

PROGRESS



CUSTOMER SATISFACTION 4.0 R&D PROJECT

PROJECT GOALS

- Examination of switchboard infrastructures for distribution companies,
- Designing the SIP infrastructure for 100% availability,
- Responding to intensive calls with Smart IVR scenarios,
- Preparing the right reporting mechanism with the infrastructure to be created,
- Creating the necessary domestic software and integrations in this context

BUDGET

TOTAL/OEDAS:
1.041.000 TL

GRANT

EMRA - %100

DURATION

24 Months

ROLES



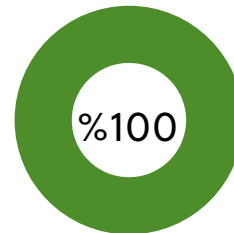
PILOT ZONE



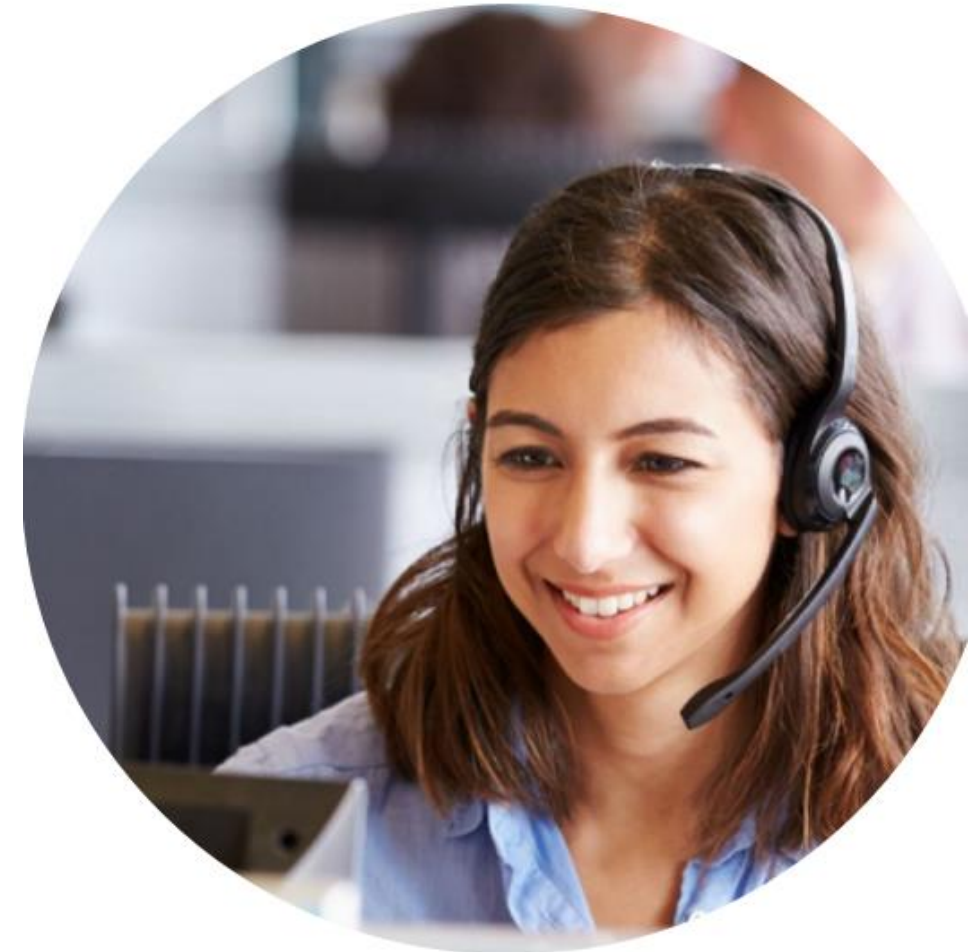
TESTING



REPORTING



PROGRESS



CONDUCTING PILOT PROJECT STUDIES IN DISTRIBUTION NETWORKS BY EXAMINING CHEMICAL ENERGY STORAGE TECHNOLOGIES (KEDEP)

PROJECT GOALS

- Reducing faults caused by voltage drop in long power lines and overloading of the network.
- Increasing the technical quality of electricity by reducing the effects such as reactive power, harmonics and flicker caused by electricity subscribers.
- Reducing technical losses in electrical appliances used by consumers
- Increasing the efficiency of SPPs
- Developing arbitrage applications for retail companies by using SES,
- Development of versatile and versatile Battery Management Software

BUDGET

TOTAL/OEDAS: 2.911.691 TL

GRANT

EMRA - %100

DURATION

39 Months

ROLES

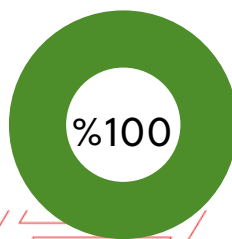


RESEARCHING



PILOT ZONE

PROGRESS



INFRASTRUCTURE DEVELOPMENT AND PILOT IMPLEMENTATION PROJECT FOR INSTALLATION-INDEPENDENT ELECTRICITY DISTRIBUTION SERVICE

PROJECT GOALS

- Developing the infrastructure of a system that is independent of the installation, provided by the distribution company, and mobilized the usage and payment methods for situations where electrical energy is needed in public areas (electric vehicle charging stations, etc.).
- Developing a common electricity and technology infrastructure for different service providers.

BUDGET

TOTAL: 1.680.000 TL
OEDAS: 420.000 TL

GRANT

EMRA - %100

DURATION

34 Months

ROLES



PILOT ZONE

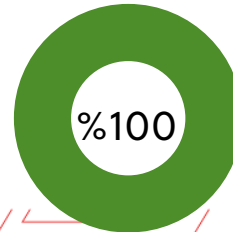


TESTING



REPORTING

PROGRESS



DSO R&D PLATFORM DESIGN AND DEVELOPMENT PROJECT PHASE 3



PROJECT GOALS

- Project Goals olarak; Developing a national DSO R&D Platform including all Turkish DSO's.
- By Following und using the outcomes from the National DSO R&D Platform •Design and Development Project Phase 2.

BUDGET

TOTAL: 5.724.000 TL
OEDAS: 269.000 TL

GRANT

EMRA - %100

DURATION

12 Months

ROLES



TECHNICAL
EXPERTISE

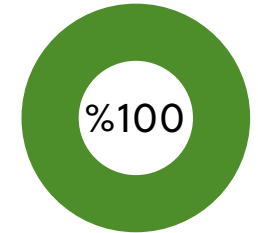


MONITORING



DATA PROVIDING

PROGRESS



HARVESTING OF ENERGY EFFICIENCY IN ELECTRICTY DISTRIBUTION SECTOR – PHASE 2

PROJECT GOALS

- A literature and feasibility study on methods in line with the National EVEC targets within the scope of the 1st Phase of HASAT project has been completed.
- Phase 2 of the HASAT project aims to pilot the methods examined and feasibility studies conducted within the scope of the first phase.
- HASAT 2 aims to measure the energy efficiency that will emerge as a result of these applications, and to calculate the energy efficiency potential of the electricity distribution sector for Turkey in general.

BUDGET

TOTAL: 5.933.000 TL
OEDAS: 287.711,11 TL

GRANT

EMRA - %100

DURATION

24 Months

ROLES

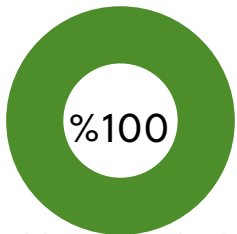


RESEARCHING



PILOT ZONE

PROGRESS



DOMESTIC ENERGY DOMESTIC TECHNOLOGY PROJECT

PROJECT GOALS

- The foreign origin of the software that forms the main backbone of distribution companies creates foreign dependency in the energy sector. These software have high purchase and membership renewal fees and maintenance costs which are given continuously cause a large current account deficit in our country and most importantly, foreign dependency on the issues where we can produce our national software and find solutions. This project aim to consider localization possibilities.

BUDGET

TOTAL: 1.727.110 TL
OEDAS: 91.866,67 TL

GRANT

EMRA - %100

DURATION

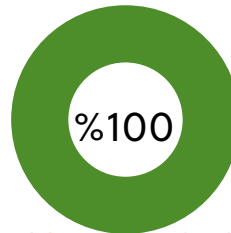
18 Months

ROLES



RESEARCHING

PROGRESS



NATIONAL SMART METER SYSTEMS PROJECT (MASS)

PROJECT GOALS

- Develop the Domestic and National Smart Meter System with all its components, from the communication protocol to the modem and the creation of meters according to different user groups

BUDGET

TOTAL: 8.880.000 TL
OEDAS: 422.858,00 TL

GRANT

EMRA - %100

DURATION

30 Months

ROLES



PILOT ZONE

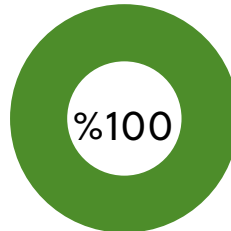


TESTING



REPORTING

PROGRESS



R&D PLATFORM DESIGN AND DEVELOPMENT PROJECT PHASE 2

PROJECT GOALS

- “Distribution Companies R&D Platform Design and Development Project Phase-2”, aims to implement an EMRA R&D Platform, where all project processes will be evaluated and managed holistically on a professional electronic platform, and systematic monitoring and reporting will be carried out by both EMRA and distribution companies.

BUDGET

TOTAL: 896.500,00 TL
OEDAS: 41.500 TL

GRANT

EMRA - %100

DURATION

12 Months

ROLES

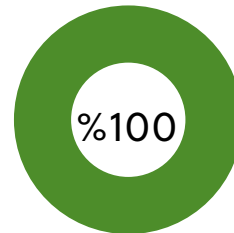


RESEARCHING



REPORTING

PROGRESS



PROJECT FOR INVESTIGATION OF TURKISH ELECTRICITY DISTRIBUTION NETWORK AGAINST EARTHQUAKES AND OTHER NATURAL DISASTERS, PERFORMANCE ANALYSIS AFTER POSSIBLE EARTHQUAKE AND DEVELOPMENT OF EMERGENCY ACTION PLANS



PROJECT GOALS

- Developing a local software that can provide automatic planning for network management to the user during and after the disaster
- Preparing necessary action plans for distribution centers in high risk groups
- Developing an emergency warning system for DSO companies by making an integration study with the Disaster and Emergency Management Presidency system

BUDGET

TOTAL: 14.120.760 TL
OEDAS: 520.238 TL

GRANT

EMRA - %100

DURATION

27 Months

ROLES

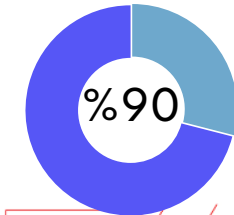


DATA PROVIDING



MONITORING

PROGRESS



NEW GENERATION GRID DEVELOPMENT

PROJECT GOALS

- Planning Grid Assets Due to new Technology

BUDGET

TOTAL: 5.497.480 TL
OEDAS: 270.356 TL

GRANT

EMRA - %100

DURATION

20 Months

ROLES



RESEARCHING



TESTING

PROGRESS



DETERMINATION OF PARTIAL DISCHARGE WITH RF EMISSIONS

PROJECT GOALS

- Fast detecting of partial discharges
- Increasing of operational efficiency
- Reducing of the potential faults
- Increasing the efficiency of preventive maintenance activities

BUDGET

TOTAL: 1.690.000 TL
OEDAS: 975.000 TL

GRANT

EMRA - %100

DURATION

12 Months

ROLES

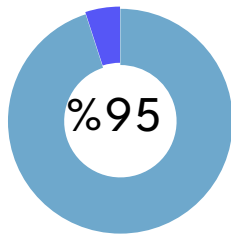


DEMONSTRATION



MONITORING

PROGRESS



ARC FLASH SAFELY OPERATION SYSTEM: ADVANCED SAFETY SYSTEM FOR EMPLOYEES AGAINST ARC FLASH HAZARD OF DURING M&O

PROJECT GOALS

- Decreasing the arc flash effect
- Increase the personal safety
- Development of national technical alternatives

BUDGET

TOTAL: 1.460.000 TL
OEDAS: 695.000 TL

GRANT

EMRA - %100

DURATION

12 Months

ROLES



TECHNICAL
EXPERTISE

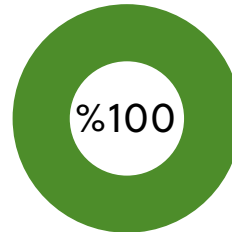


MONITORING



DATA PROVIDING

PROGRESS



DIGITAL MATURITY ASSESSMENT MODEL AND DEVELOPMENT ROADMAP PROJECT

PROJECT GOALS

- Determining the current digital maturity level of the company
- Identification of investment needs necessary to increase digital maturity
- Creating a digital development roadmap

BUDGET

TOTAL: 7.981.800 TL
OEDAS: 293.514,29 TL

GRANT

EMRA - %100

DURATION

15 Months

ROLES

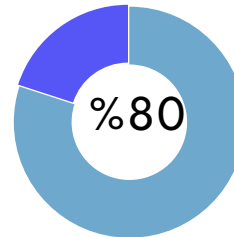


TECHNICAL
EXPERTISE

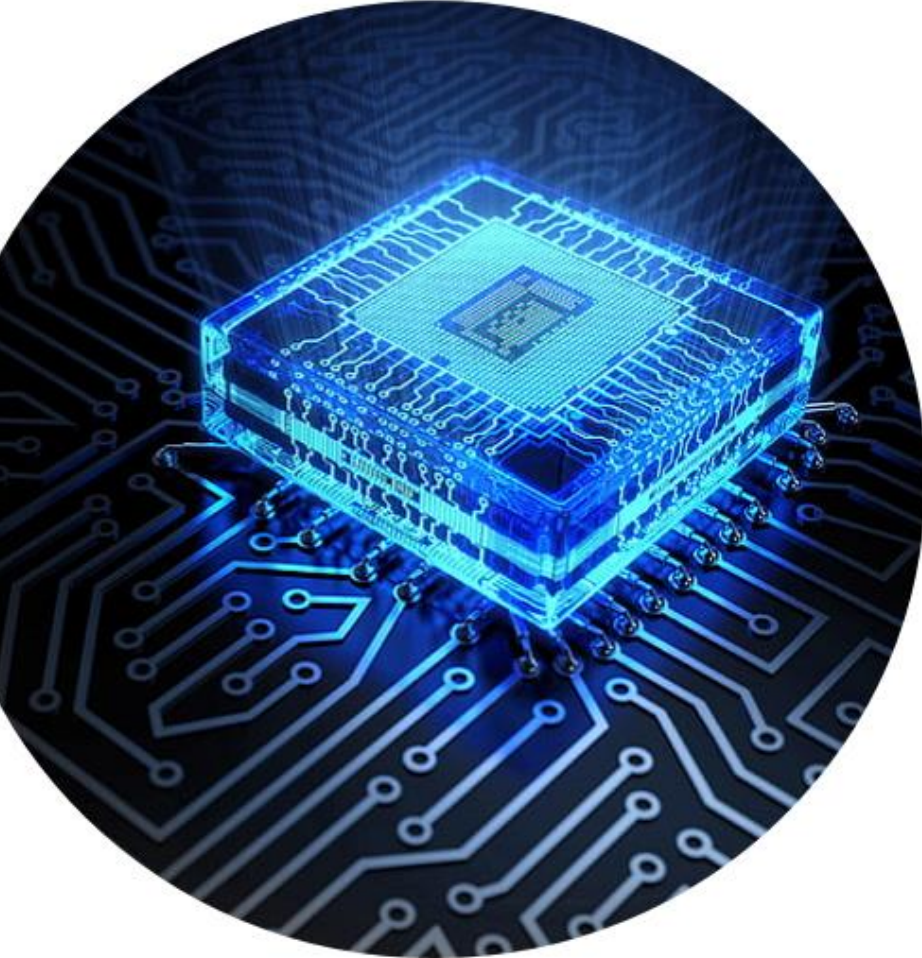


MONITORING

PROGRESS



NATIONAL CPU FOR DISTRIBUTION

**PROJECT GOALS**

- Researching National Processor for local DSO Metering Needs

BUDGET

TOTAL: 2.049.120 TL
OEDAS: 88.720 TL

GRANT

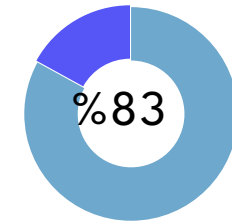
EMRA - %100

DURATION

12 Months

ROLES

RESEARCHING

PROGRESS

SAFE & REMOTE ACTIVATION SYSTEM FOR LUMINAIRES IN RURAL

PROJECT GOALS

- Remote solution for temporary faults
- OPEX saving
- User satisfaction
- Software for new product and code

BUDGET

TOTAL / OEDAS:
1.596.600 TL

GRANT

EMRA - %100

DURATION

16 Months

ROLES



TECHNICAL
EXPERTISE

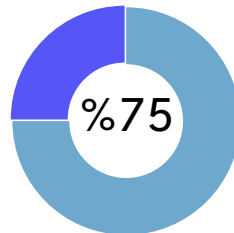


MONITORING



DATA PROVIDING

PROGRESS



NOCA NO-CODE APPLICATION DEVELOPMENT PLATFORM



PROJECT GOALS

- Accelerating the digital transformation of distribution companies
- Reducing the costs of digital transformation efforts
- Creating a platform to develop applications without the need for programming knowledge

BUDGET

TOTAL: 5.499.000 TL
OEDAS: 251.904 TL

GRANT

EMRA - %100

DURATION

18 Months

ROLES

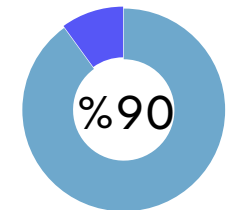


TECHNICAL
EXPERTISE



MONITORING

PROGRESS



PLC & RF PROTOCOL AND PRODUCT DEVELOPMENT (INTEGRATED WITH NATIONAL SMART METER SYSTEM (MAS))

PROJECT GOALS

- Planning and Testing New Powerline Communication and Radio Frequency
- Modules and their protocols for National Metering Standards.

BUDGET

TOTAL: 6.604.520 TL
OEDAS: 307.142,86 TL

GRANT

EMRA - %100

DURATION

36 Months

ROLES

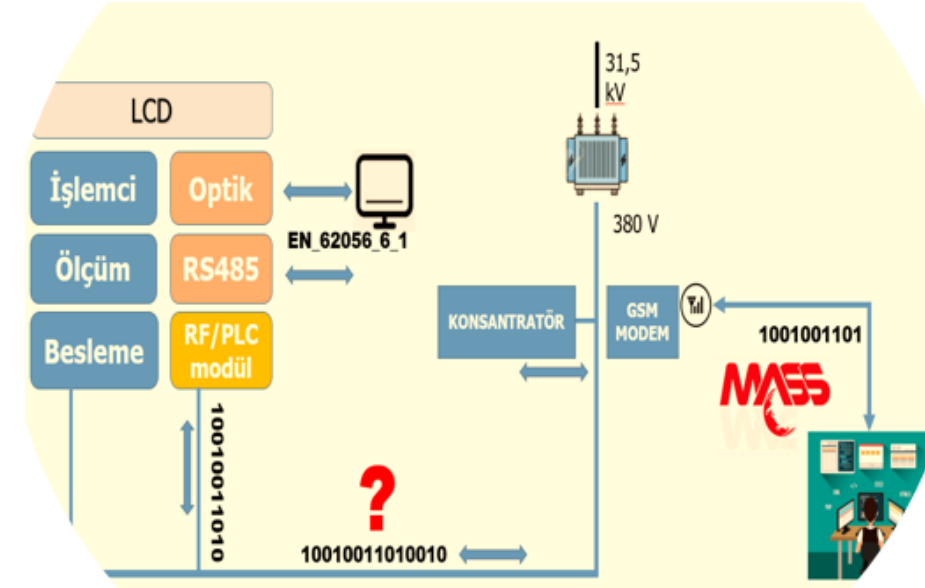
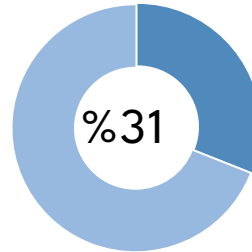


RESEARCHING



TESTING

PROGRESS



DEVELOPMENT OF DATA-CENTRIC SECURITY AND COMPLIANCE PLATFORM PROJECT

PROJECT GOALS

- Elimination of problems such as integration difficulties, conflicting data and uncertainty of data ownership in the information systems of distribution companies
- Detecting malicious activities by combining authorization-based dynamic data masking, data activity monitoring and user behavior analytics
- Developing a Data-Centric Security and Compliance Platform

BUDGET

TOTAL: 6.459.080 TL
OEDAS: 295.670,48 TL

GRANT

EMRA - %100

DURATION

18 Months

ROLES

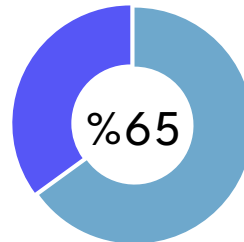


TECHNICAL
EXPERTISE



MONITORING

PROGRESS



NATIONAL SOFTWARE ECOSYSTEM PROJECT

PROJECT GOALS

- Researching new standarts for National Software project needs

BUDGET

TOTAL: 5.479.480 TL
OEDAS: 228.690 TL

GRANT

EMRA - %100

DURATION

24 Months

ROLES

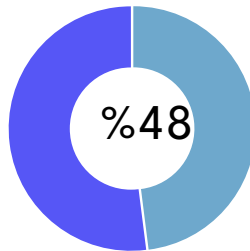


RESEARCHING



MONITORING

PROGRESS



SLF: SPATIAL LOAD FORECASTING TOOL

PROJECT GOALS

- Improvement long-term utilization rates of grid facilities and new investments in the system
- Establishing a roadmap to achieve optimal planning for the duration targeted by the electricity distribution infrastructure planning
- Placing stochastic planning processes with different scenarios

BUDGET

TOTAL: 2.667.500 TL
OEDAS: 1.333.750 TL

GRANT

EMRA - %100

DURATION

12 Months

ROLES

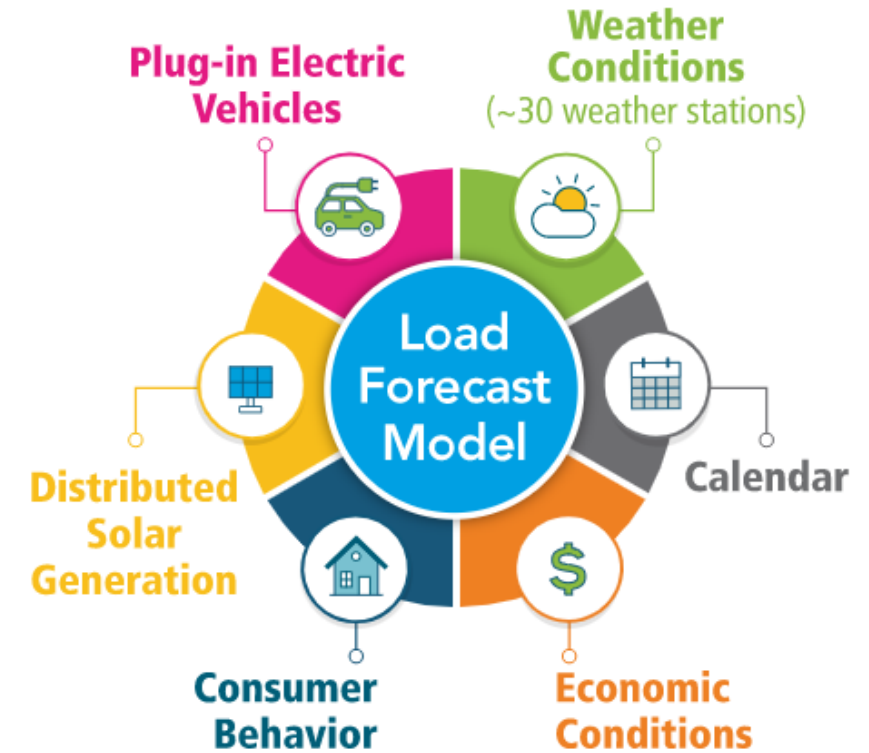
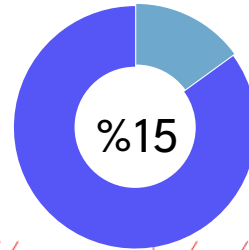


DATA PROVIDING



PILOT ZONE

PROGRESS





PROJECT GOALS

- Managing storage systems application processes
- Monitoring of nationwide storage systems from centers
- Creating information sharing platform about storage systems

BUDGET

TOTAL: 3.015.170 TL
OEDAS: 1.533.587 TL

GRANT

EMRA - %100

DURATION

13 Months

ROLES

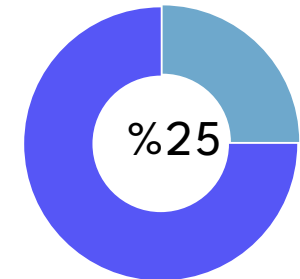


TECHNICAL
EXPERTISE



MONITORING

PROGRESS



DOMESTIC ENERGY ECOSYSTEM INTEGRATION AND MASTER DATA MANAGEMENT PLATFORM (YE3AP)

PROJECT GOALS

- Centralizing processes related to the production, storage and access of master data
- Ensuring data quality
- Streamline integration follow-up and reduce its cost

BUDGET

TOTAL: 29.100.002 TL
OEDAS: 2.813.577 TL

GRANT

EMRA - %100

DURATION

18 Months

ROLES

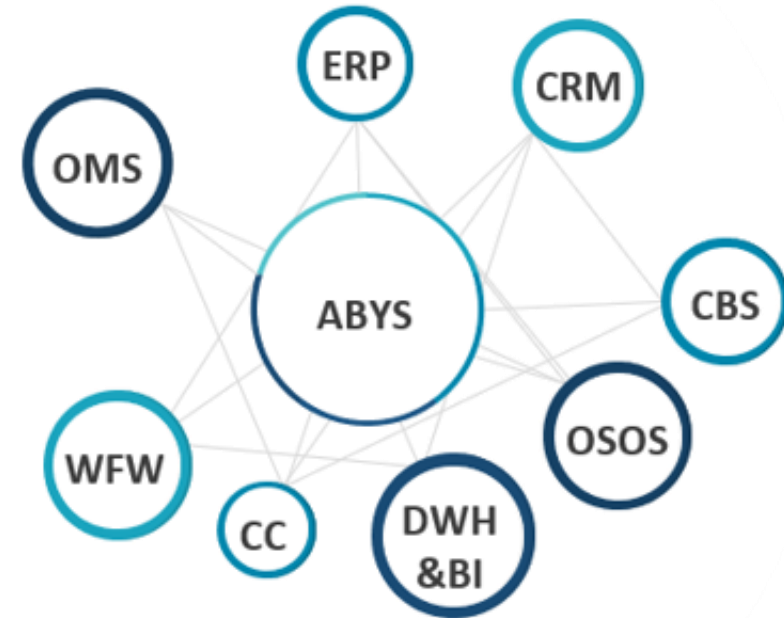
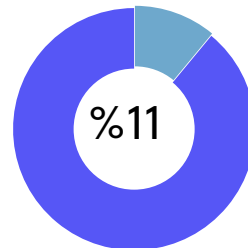


TECHNICAL
EXPERTISE



MONITORING

PROGRESS



PREPARING THE ELECTRICAL INFRASTRUCTURE WITHIN THE FRAMEWORK OF TURKEY E-MOBILITY DEVELOPMENT

PROJECT GOALS

- Development of EA projection software
- Technical analysis of pilot locations to check distribution system challenges
- Developing a roadmap and legislative proposal

BUDGET

TOTAL: 5.829.000 TL
OEDAS: 249.019,06 TL

GRANT

EMRA - %100

DURATION

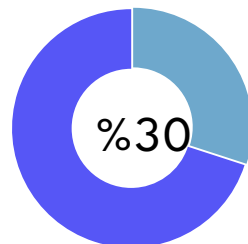
15 Months

ROLES



DATA PROVIDING

PROGRESS



MASS TQM (Technical Quality Management)

PROJECT GOALS

- creation of a database for storing data

BUDGET

TOTAL: 7.250.000 TL
OEDAS:3.664.392,00 TL

GRANT

EMRA - %100

DURATION

10 Months

ROLES

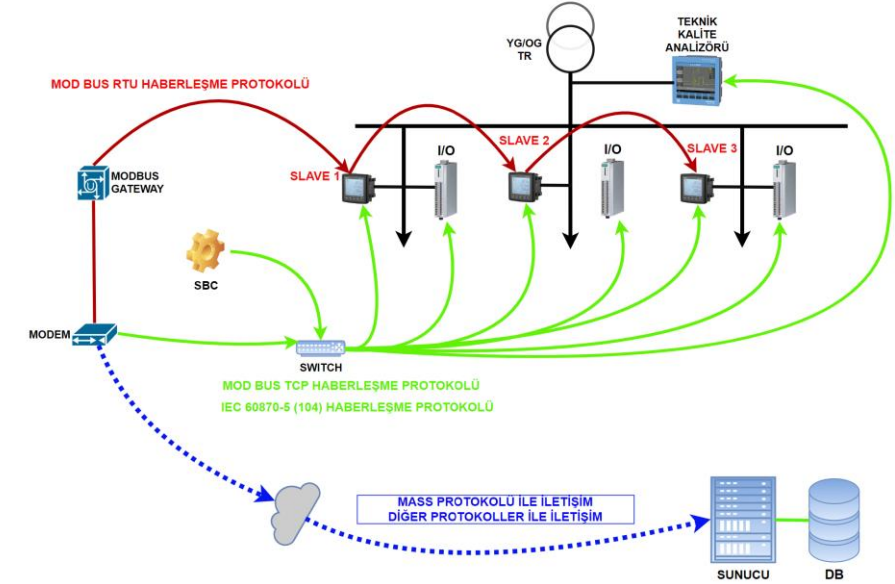
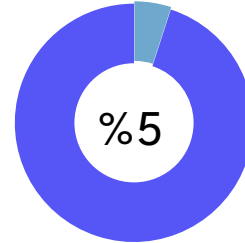


PILOT ZONE



HARDWARE/SOFTWARE DESIGN

PROGRESS



Şimşek (Geographic Information Systems)

PROJECT GOALS

- Indigenisation of GIS infrastructure

BUDGET

TOTAL:11.922.200 TL
OEDAS:11.922.200 TL

GRANT

EMRA - %100

DURATION

24 Months



ROLES

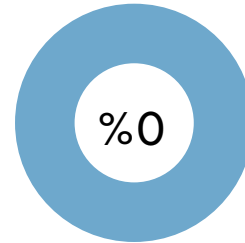


MONITORING



TECHNICAL
EXPERTISE

PROGRESS



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