

International Brokerage Event Brussels, 26-27/10/2017



RESEARCH & DEVELOPMENT

DEPARTMENT

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Description of the Organization



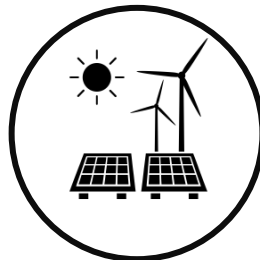
TRADE &
OPTIMISATION



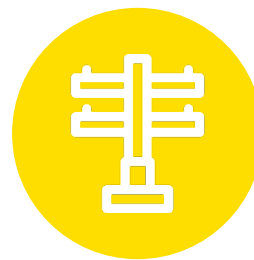
RETAIL & SALES



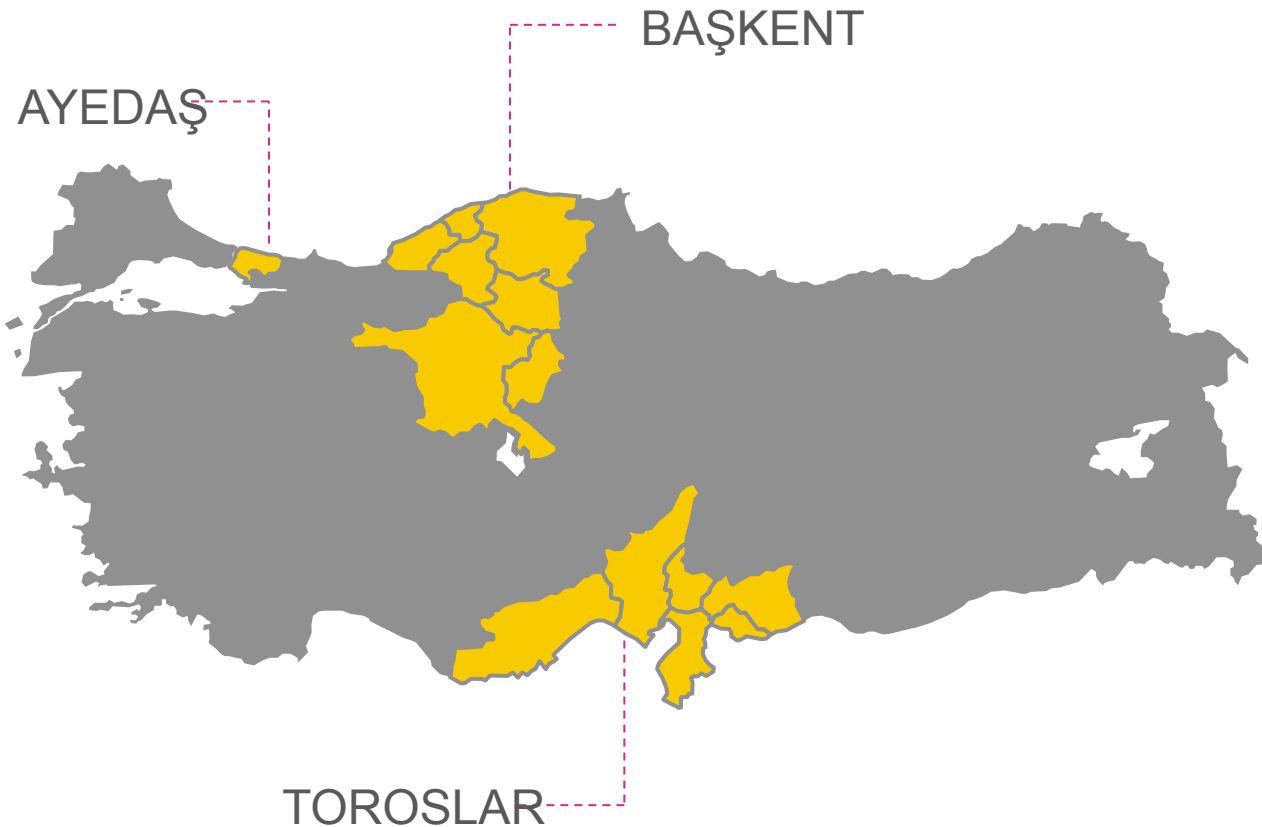
GENERATION



ELECTRICITY
DISTRIBUTION



Description of the Organization



3

Region



14

Provinces



7000

Employees



190.000 km

Distribution
Line

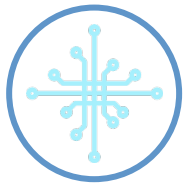


9 Million

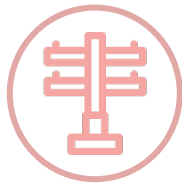
Customers



Key Research Areas



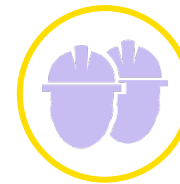
SMART
GRID
S



GRID
IMPROVEMENT
& OPERATIONAL
EFFICIENCY



SMART
CITIES



HEALTH,
SAFETY &
ENVIRONMENT



CUSTOMER
SOLUTIONS

Sample Projects

PEAKAPP PROJECT

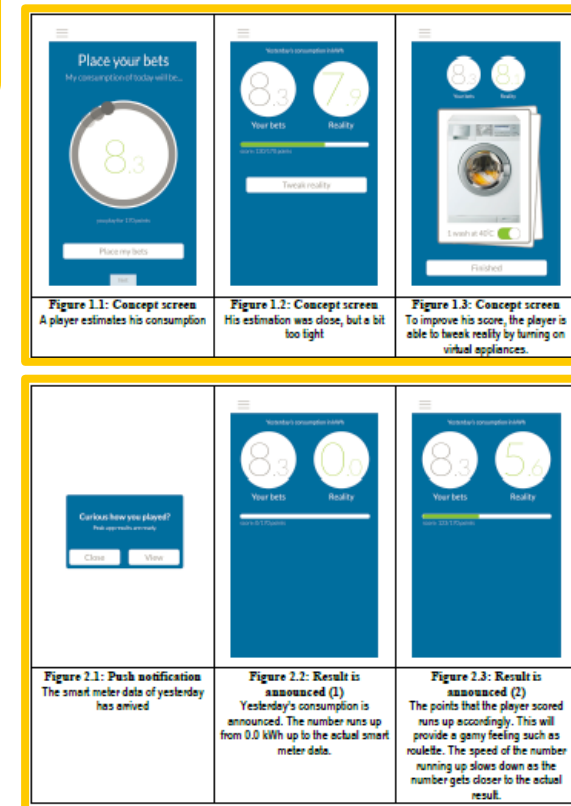


Project Objective

- The development of an unprecedented ICT-to-Human ecosystem
- To trigger lasting energy savings through behavioral change and continuous engagement,
- To enable increased consumption of clean and low-priced electricity from the spot market for household customers
- To connect them to social networks, to motivate them through serious gaming
- To boost the efficacy of Smart Home building energy management systems by integrating their functionalities into the PEAKapp solution

Incentive
HORIZON

Period
36 Months



Sample Projects

KRITA PROJECT



Project Objective

- Integration and interoperability of 'Smart City' components
- Development of digital services in order to establish information exchange between infrastructure operators and municipalities
- Determination of technical and regulatory rules for energy applications in 'Smart City' context

Incentive
EMRA

Period
32 Months



Sample Projects

SMART METER PROJECT



Project Objective

- Designing smart meter prototype by collaborating with local smart meter producer
- Expected properties of this smart meter are listed below
- Remote reading of consumption data
- Remote controlling of meters (on/off and limiting the load)
- Remote detecting of power cut and defects
- Developing meter to be compatible with national electricity grid
- Laboratory testing of prototypes



Incentive
EMRA

Period
33 Months

Sample Projects

DAGSIS PROJECT



Project Objective

- Planning and executing a business trip in order to make an assessment of best practices in the world regarding distributed generation, electric vehicles and storage systems
- Installation of PV system to a campus area in order to use the sample application to develop grid-integration principles
- Impact analyses of DG, HEPP, PV systems on power quality
- Optimization of localization of EV Fast chargers, DG points and storage systems
- Impact analysis and optimization of EV charger for several scenarios on distribution grid
- Study on peak shaving methods by using flexible loads, DG and storage



Incentive
EMRA

Period
5 Months

Work Programme 2018-2020 Focus



“Smart, Sustainable and Resilient Cities and Energy Efficient Buildings”

- LC-SC3-SCC-1-2018-2019-2020: Smart Cities and Communities (WS1)

“Smart Energy Systems and Consumers”

Smart and clean energy for consumers

- LC-SC3-EC-1-2018-2019-2020: The role of consumers in changing the market through informed decision and collective actions
- LC-SC3-EC-3-2020: Consumer engagement and demand response

Smart citizen-centred energy system

- LC-SC3-ES-1-2019: Flexibility and retail market options for the distribution grid
- LC-SC3-ES-3-2018-2020: Integrated local energy systems (Energy islands)
- LC-SC3-ES-5-2018-2020: TSO – DSO – Consumer: Large-scale demonstrations of innovative grid services through demand response, storage and small-scale (RES) generation

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RESEARCH & DEVELOPMENT DEPARTMENT

R&D Incentive Management Specialist

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