

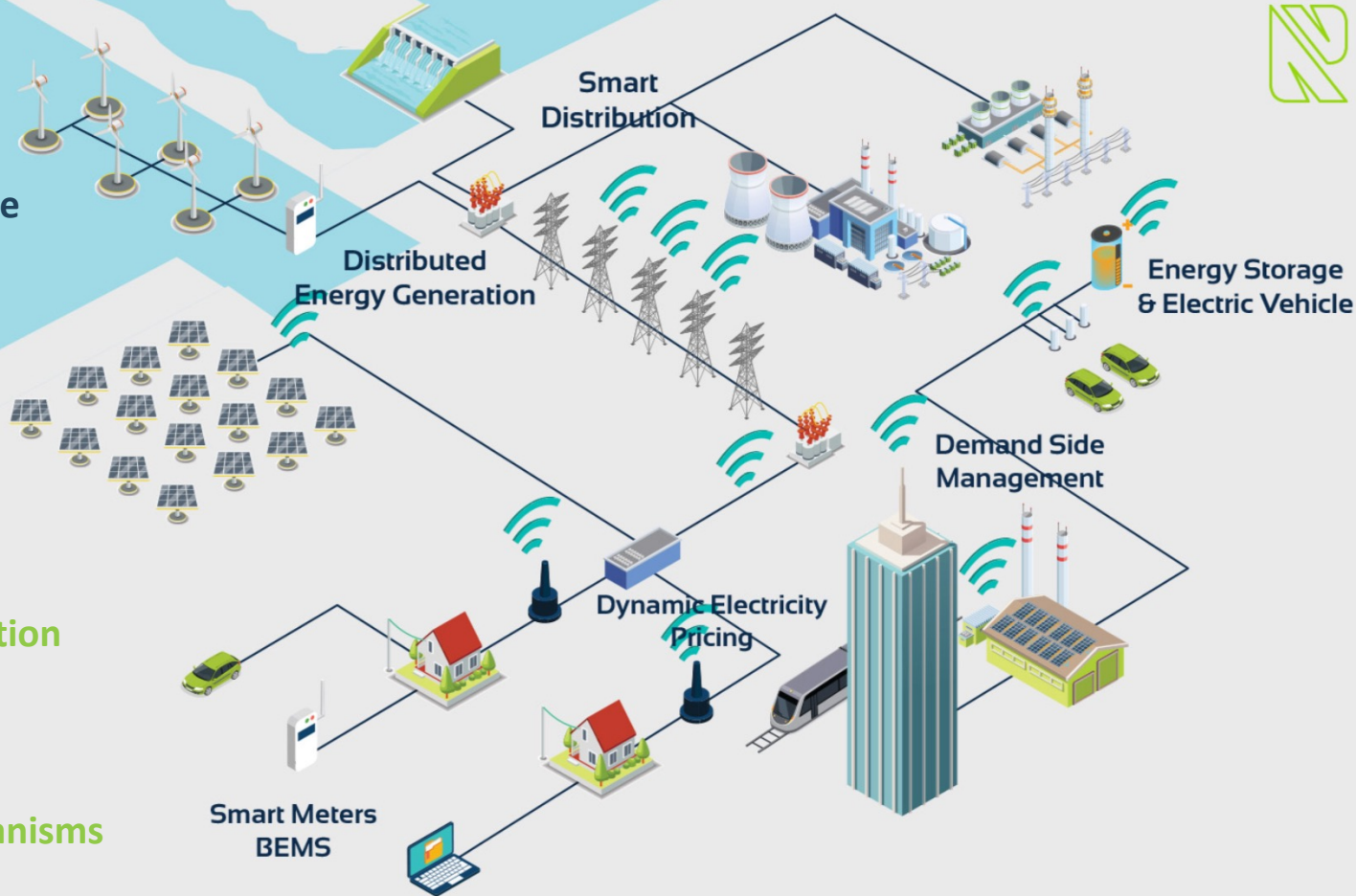


ENERGY IS THE NEW *INTERNET!*

Sahin Caglayan, CEO @Reengen

Internet of Things
Cloud Platforms
Big Data Analytics
Artificial Intelligence
Blockchain
Cybersecurity

Micro-grids
Distributed Generation
Energy Storage
Electric Vehicles
Transactive Energy
New Market Mechanisms





'Reengen in a Nutshell

Reengen is a global supplier of AI Powered energy & sustainability analytics platform.

We help enterprises to build **data driven multi-phased sustainability journey**. We coordinate, portfolio-wide energy & sustainability programs based on our Sustainability Cloud that take corporate real estate (CRE) operations from point zero to top of their industry.



Lower Carbon Emissions



Improved Living Environment



Reduced Energy Expenses



Increased Operational Efficiency

Sustainability Coordination Center with the Guidance of Subject-Matter Energy & Sustainability Experts

Turn data into AI-Powered Business Value
Drive Continuous Sustainability
Get 360° Portfolio Visibility
Comply to the industry standards
Predict and Extend Asset Life Cycles
Power the Enernet Transformation



ENERGY & SUSTAINABILITY INTELLIGENCE



Predictive
Maintenance

Energy
Management

Sustainability
Management

Utility Bill
Management

Optimum
Energy
Procurement

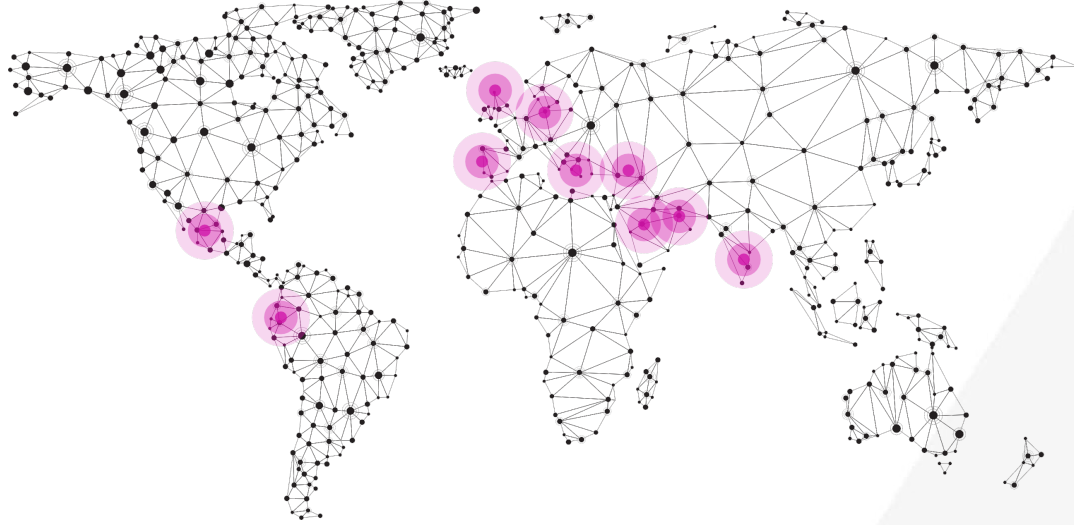
Demand Side
Management

Asset
Management

Power Plant
Management



REENGEN'S GLOBAL REACH



15

Countries

12.000

Facilities Monitored

5M

Real Time Data Stream

0.6

Gigaton CO2 Footprint
Reduction

ORACLE



BBVA



BNP PARIBAS



Bank Audi *MediaMarkt*



PEPSICO



vodafone



MARKS & SPENCER
LONDON

MEDICALPARK BOYNER FLO



Montealbor



mavi

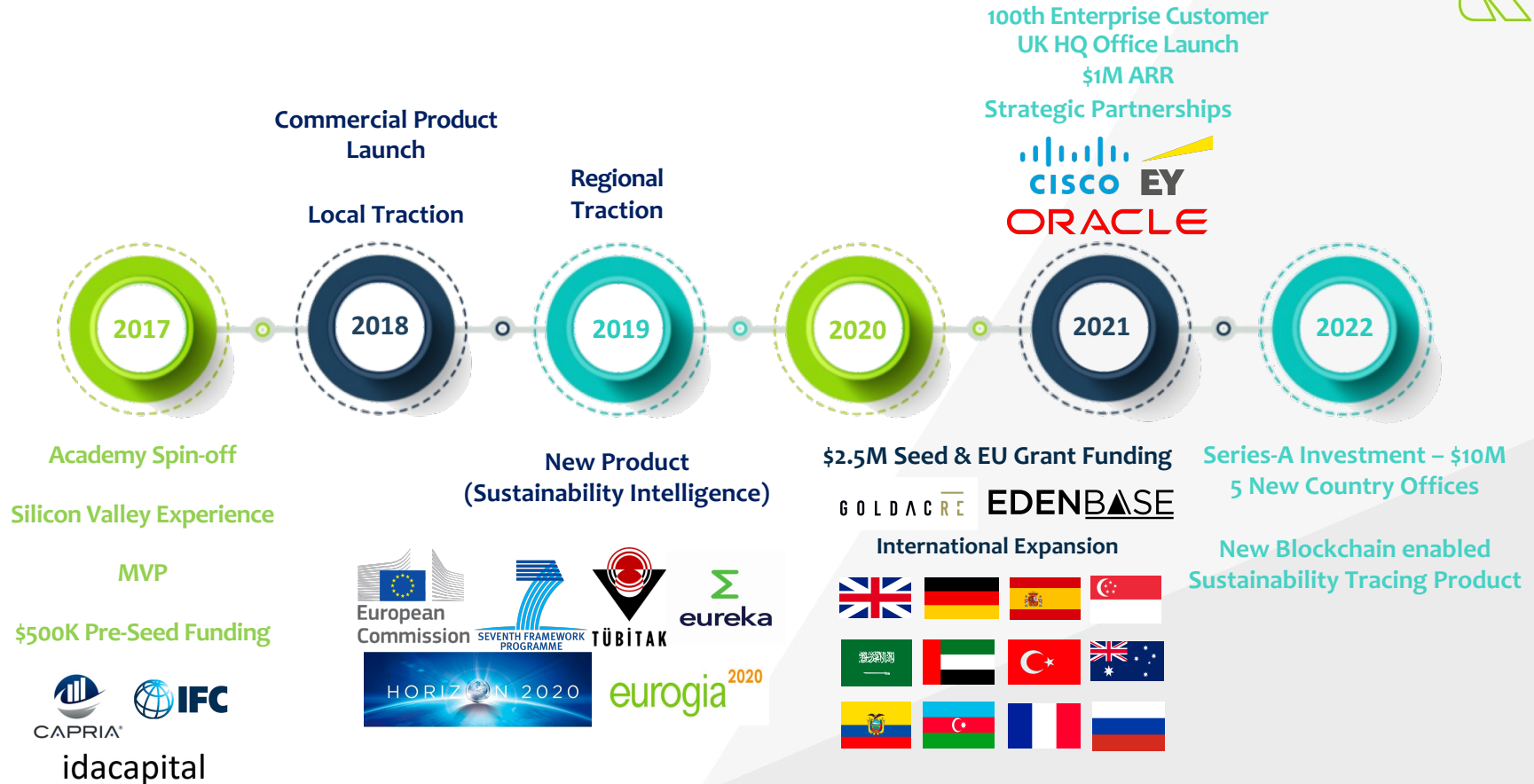
BANANA REPUBLIC
EST. 1978 | SAN FRANCISCO



KOTON

Cross Industry Solution
with
+ 100 Global Clients

COMPANY TRACTION



Co-Founders



Sahin Caglayan

Co-Founder, CEO



Burak Sefer

Co-Founder, COO



Utku Simitli

Co-Founder,
VP Product & Services



Team – 50 FTE

(London Office 4, Istanbul Office 45, Qatar Office 1)



Advisory Board



Daniel Kranzler
Capria Ventures



Stephen Mooney
UK Trade &
Investment



Faruk Eczacibasi
Eczacibasi
Holding



**Prof. Dr.
Sermin Onaygil**
ITU Energy
Institute



**Prof.
M. Pinar Menguc**
CEEE



**Dr. Emre Eren
Korkmaz**
Oxford University



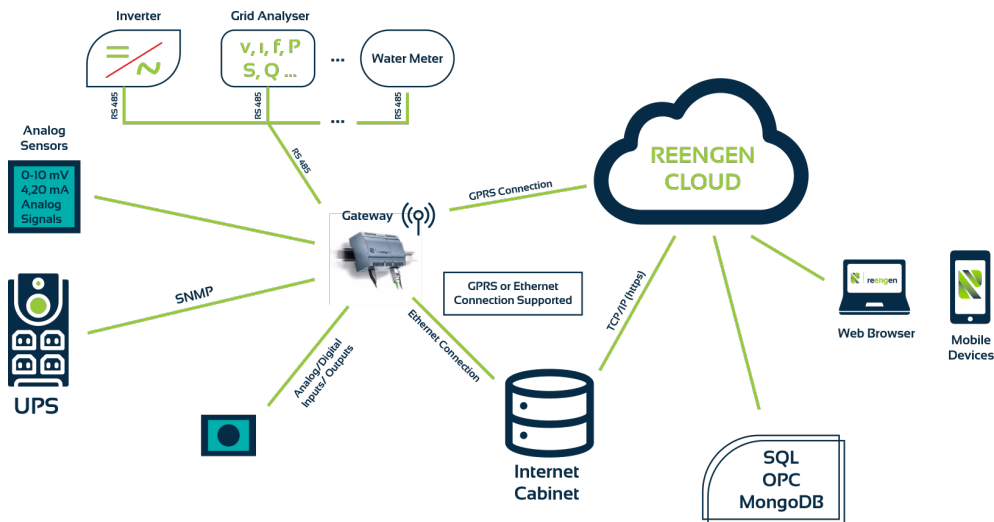
Devrim Celal
Upside Energy, UK

Enterprise Machine Learning Applications – No Code ML Models



PATENT PENDING EDGE ANALYTICS

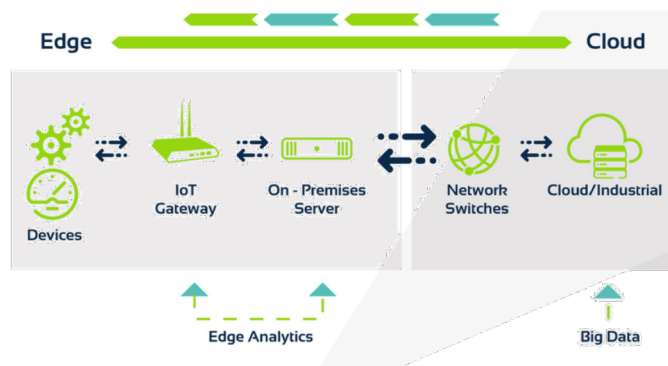
Scalable and replicable communication infrastructure



Modbus, IEC6205621, SNMP, BacNet, LoraWAN, NB-IoT, Profibus, 2-Way Communication, Remote Control.. ...

IoT Gateway

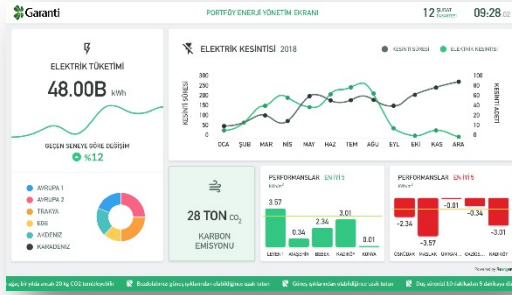
All-In-One Advanced Hub



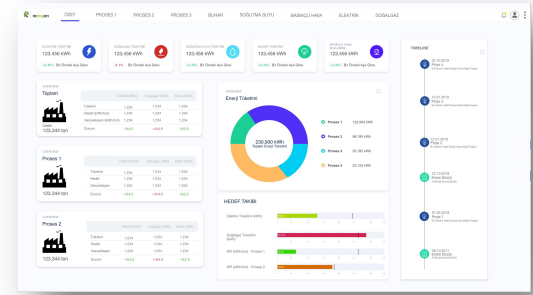
SUPERIOR FEEDBACK MECHANISM



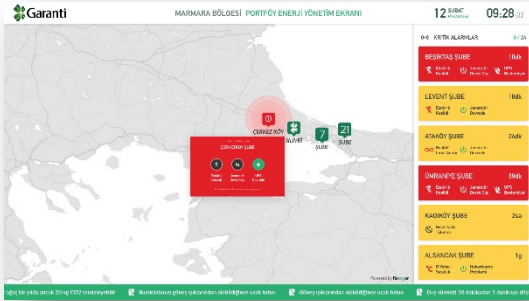
Customized – white labeled platform



Executive Reporting



In-dept Technical Analysis



Real Time Operational Dashboards



Automated & Customized Reporting



Native Mobile Apps

R&D Focus -Digital Future of Sustainability & Smart Cities

Big Data

Smart Grid

Smart Cities

Artificial Intelligence

IoT &Blockchain

Cloud Computing

Internet of Energy

Sustainability

Innovative & Disruptive Technologies

Peer toPeer Energy Transaction

Measurement & Verification

Sustainability & Efficiency

Predictive Maintenance

Energy Gamification

Demand Response

Carbon Intelligence

 ebalanceplus

CITYfiED
RepliCable and iInnovaTive
Future Efficient Districts and cities

R2
CITIES

IDERE4C

NEED4B
New Energy Efficient
Demonstration for Buildings

Tribe
Play it!

Game4SEEN

SolarPact

EnergyShared

SOME OF OUR R&D PROJECTS



FP7: R2CITIES - Renovation of Residential urban spaces:

Towards nearly zero energy cities

FP7: CITYFIED - Replicable and Innovative Future Efficient Districts and cities

FP7: NEED4B - New Energy Efficient Demonstration for Buildings

Horizon2020: TRIBE - TRaining Behaviours towards Energy efficiency: Play it!

EUROGIA2020: Game4SEEN - Social Impact on Energy Efficiency by Gamification based IoT Platform

EUROGIA2020: SolarPact - Smart Algorithms and User Interaction for Residential and Commercial Solar Prosumers

EUROGIA2020: EnergyShared - Development of Low-Carbon Residential Microgrid with Advanced Energy Exchange and Payment Capabilities

H2020: ebalanceplus - Energy balancing and resilience solutions to unlock the flexibility and increase market options for distribution grid

ERA-NET GENTE – Distributed Governance for Green Energy Communities

EUREKA - TUBITAK 1509 - Multidimensional Energy Monitoring System for Intelligent Buildings

TUBITAK 1507 - Development of Model Predictive Control Algorithms for optimization of building HVAC Systems

TUBITAK 1511 - Integrated Energy Management Platform for Commercial Buildings including Wireless Sensors and IoT Gateways Edge Analytics

TUBITAK 1501 - Cloud and Edge Analytics Integrated IIoT-Based Predictive Maintenance Platform for Electric Motors in Industrial Facilities



Social Impact on Energy Efficiency by Gamification based IoT Platform



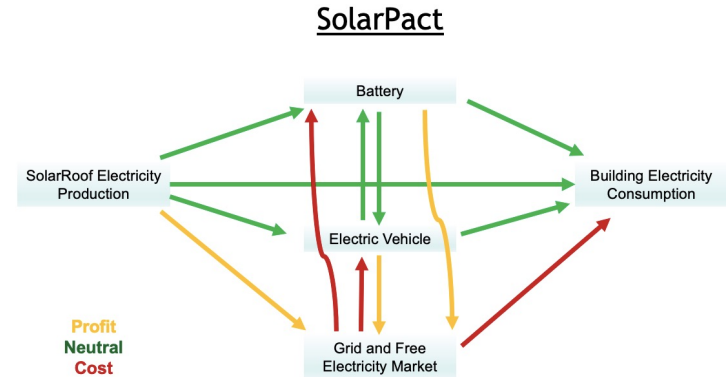
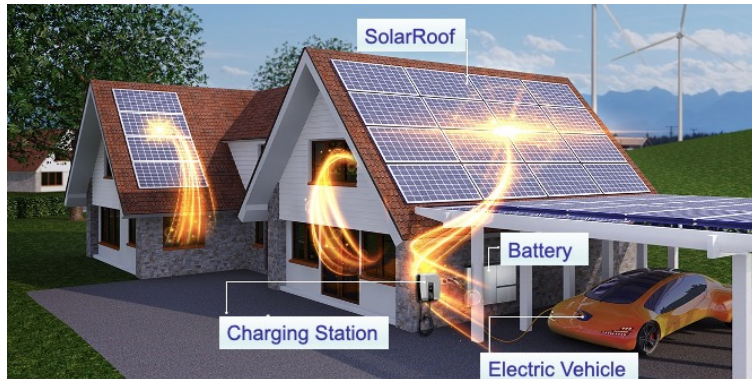
Kullanıcı Tipleri	00:00-03:00	03:00-06:00	06:00-09:00	09:00-12:00	12:00-15:00	15:00-18:00	18:00-21:00	21:00-24:00
A						 	  	  
B					 	 	  	  
C							     	
D							     	



Kullanıcı Tipleri	00:00-03:00	03:00-06:00	06:00-09:00	09:00-12:00	12:00-15:00	15:00-18:00	18:00-21:00	21:00-24:00
A					 	 	 	
B				 	 	 	 	
C							   	
D	 							  

The aim of Game4SEEN Project is to develop an innovative ICT platform adopting customized gamification techniques for increased citizen engagement in order to achieve the behavioural change of individuals on energy usage. Energy efficiency and social impact approach are used here.

Smart Algorithms and User Interaction for Residential and Commercial Solar Prosumers



The goal of the SolarPact project is developing and demonstrating advanced algorithms and software applications for solar prosumers, smart scheduling of local production and consumption via algorithms and user interaction for both the commercial and residential sectors. Renewable energy management knowledge will be transferred.

EUROGIA: ENERGYSHARED



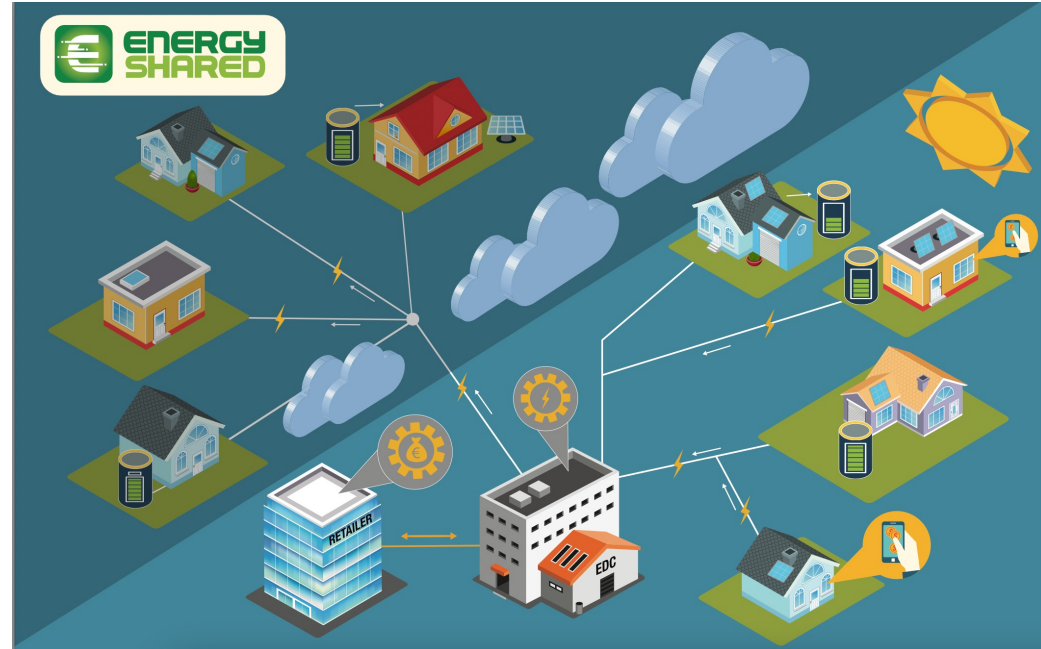
Development of Low-Carbon Residential Microgrid with Advanced Energy Exchange and Payment Capabilities



EnergyShared project aims to develop renewable energy solution based smart infrastructure by placing individuals in the core of this smart infrastructure, from energy production to storage, efficient energy use to selling, energy demand management to sharing, and monitoring to control.

EnergyShared will bring together the following tools:

- Mobile Software Development Kit (SDK)
- Smart Box for houses
- Predictive Energy Management tools for microgrids
- Distributed Management System for utilities
- IoT System



ADDRESSING THIS CALL



EUROGIA2030

THE EUREKA CLUSTER FOR LOW CARBON TECHNOLOGIES SOLUTIONS

OPEN NOW: CALL19 (18TH FEBRUARY 2022)

Eurogia 2030s 5D Strategy:

- Decarbonisation
- Democratisation
- Digitalisation
- Deregulation
- Decentralisation

REENGEN'S PROJECT OFFERS

1. Integrated and Digital Carbon Emission Analytics and Net Zero Navigation Platform

- Scope 1,2,3 Accounting, Science-based targets
- Achieving Net zero goals

2. IoT&AI based multi-layered Virtual Power Plant Platform for Demand Side Management Microservices

- Distributed/Decentralized Energy Resources Management
- Mobile app interfaces for user engagement
- Microservices for DSO-users

Thank you!



REENGEN ENERGY TECHNOLOGIES CORP.

*TR: Reşitpaşa Mah. Katar Cad.
İTÜ Teknokent Arı 3 B110 Sarıyer, İstanbul*

*USA: Singularity University Lab NASA
Ames Research Moffett Field 94035
Mountain View, CA*

Contact us!
info@reengen.com



/reengen

www.reengen.com

Energy AI & IoT Platform

Cloud-based End-to-end Energy Intelligence Solutions for Buildings, Facilities and Utilities

Turns Data into Actionable Intelligence

Track the real time condition of your energy assets, monitor energy performance of your buildings, systems and renewable energy plants and obtain data-driven notifications from anywhere and anytime you need.



**SUSTAINABLE
DEVELOPMENT
GOALS**

ENERGY
COST

Up To
15%

OPERATIONAL
EFFICIENCY

Up To
40%

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



11 SUSTAINABLE CITIES
AND COMMUNITIES



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13 CLIMATE
ACTION



ENVIRONMENTAL
IMPACT / CARBON

Up To
20%



PEPSICO



BNP PARIBAS



BBVA



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 864283

As an expert on the studies of **DIGITALIZATION, SMART, IOT,**
ENERGY, SUSTAINABILITY, DATA ANALYTICS

OUR R&D PROJECT IDEAS FOR FUTURE

- Integrated and Digital Carbon Footprint & Sustainability Management
- ML Predictive Maintenance Services for AI-based Energy Analytics
- Blockchain-based microgrid optimization
- Smart and Sustainable Energy Transition of Prosumers
- Wireless sensor network-based demand response platform
- AI-powered chatbot based utility customer engagement portal
- IoT Monitoring and Gamification based End User Behavior Enhancement for Energy Efficiency
- Big Data for Energy Efficiency
- Gamification supported customer engagement for demand side
- Platform-as-a-Service Application Marketplace for Smart Cities
- LoRaWAN & NB-IoT hybrid network based smart sensor platform
- Solar Plant Supply Side Management & Real Time Control
- Renewables integrated Smart Grid optimization



AND MANY MORE....

CONTACT US FOR DETAILS!