Sustainable Energy Efficiency Projects

BE AD

RETAIL

Site

DIY Retail Chain

The DIY Retail chain is operating for 20 years at Turkey. It is a JV with UK and Turkish Company.

.

- 45 branches across Turkey .
- Stores are between 1500-6000m2
- Anual Energy consumption is 3.5 Mil $.
- Energy Efficiency target is 20% savings

Project

- Real time energy consumption monitoring
- Energy consumption analysis according to occupancy changes
- Analysing day-cycle of the building
- Ventilation and lighting analysis during the day.
- HVAC optimization according to real time data that BEAD provides
- Optimization of the operations during the day
- Real time energy analysis reporting
- Predictive analysis for budgeting the energy costs
- Energy profiling for Renewable energy investments
- BMS system optimization
- Human-less operation of the building with BEAD AI

Investment

1.150 BEAD IoT devices

100 Energy Power Meters

450 Communication modules for HVAC

Energy Management and Analysis Software

Investment

- 550.000 $ for all locations
- 50.000 $ Installation
- --------------------------------------
- TOTAL Investment
- 600.000 $

Savings

- Energy Savings
- 250.000 $
- Operation Optimization
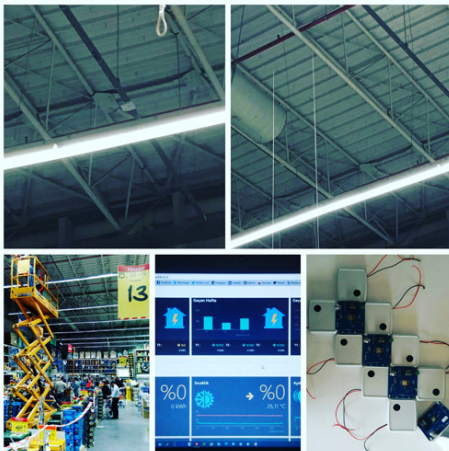- 50.000 $

Sustainable Energy Efficiency Projects

BE AD

FITNESS

Site

Fitness Chain

The Fitness chain is operating for 15 years at Turkey. It is a JV with US and Turkish Company.
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- 50 branches across Turkey .
- Stores are between 2000-6000m2
- Anual Energy consumption is 6.8 Mil $.
- Energy Efficiency target is 20% savings

Project

- Real time energy consumption monitoring
- Energy consumption analysis according to occupancy changes
- Analysing day-cycle of the building
- Ventilation and lighting analysis during the day.
- HVAC optimization according to real time data that BEAD provides
- Optimization of the operations during the day
- Real time energy analysis reporting
- Predictive analysis for budgeting the energy costs
- Energy profiling for Renewable energy investments
- BMS system optimization
- Human-less operation of the building with BEAD AI

Investment

1.500 BEAD IoT devices

100 Energy Power Meters

500 Communication modules for HVAC

Energy Management and Analysis Software

Investment

- 750.000 $ for all locations
- 70.000 $ Installation
- -------------------------------------
- TOTAL Investment
- 820.000 $

Savings

- Energy Savings
- 600.000 $
- Operation Optimization
- 80.000 $

Sustainable Energy Efficiency Projects

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SUPERMARKET

Site

Supermarket Chain

The Supermarket chain is operating for 20 years at Turkey. .

- 500 branches across Turkey .
- Stores are between 500-8000m2
- Anual Energy consumption is 25 Mil $.
- Energy Efficiency target is 20% savings

Project

- Real time energy consumption monitoring
- Energy consumption analysis according to occupancy changes
- Analysing day-cycle of the building
- Ventilation and lighting analysis during the day.
- HVAC optimization according to real time data that BEAD provides
- Optimization of the operations during the day
- Real time energy analysis reporting
- Predictive analysis for budgeting the energy costs
- Energy profiling for Renewable energy investments
- BMS system optimization
- Human-less operation of the building with BEAD AI

Investment

10.000 BEAD IoT devices

1.500 Energy Power Meters

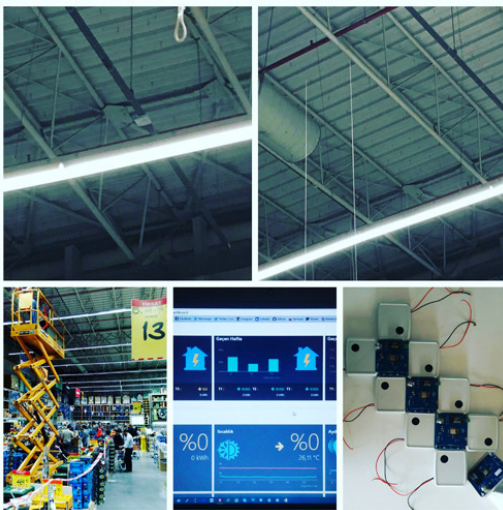5.000 Communication modules for HVAC

Energy Management and Analysis Software

Investment

- 2.350.000 $ for all locations
- 250.000 $ Installation
- -------------------------------------
- TOTAL Investment
- 2.600.000 $

Savings

- Energy Savings
- 1.000.000 $
- Operation Optimization
- 250.000 $

Sustainable Energy Efficiency Projects

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HEALT CLINIC

Site

Health Clinic

The Clinic is a German chain is operating for 10 years at Turkey. .

- 15 branches across Turkey .
- Stores are between 500-1000m2
- Anual Energy consumption is 80k $.
- Energy Efficiency target is 25% savings

Project

- Real time energy consumption monitoring
- Energy consumption analysis according to occupancy changes
- Analysing day-cycle of the building
- Ventilation and lighting analysis during the day.
- HVAC optimization according to real time data that BEAD provides
- Optimization of the operations during the day
- Real time energy analysis reporting
- Predictive analysis for budgeting the energy costs
- Energy profiling for Renewable energy investments
- BMS system optimization
- Human-less operation of the building with BEAD AI
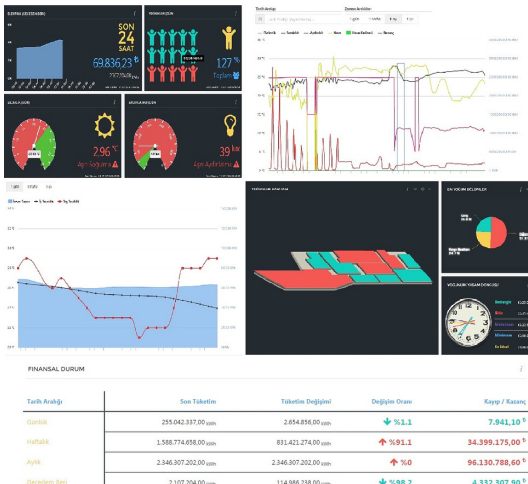- Change of the old AC units

Investment

100 BEAD IoT devices

20 Energy Power Meters

50 Communication modules for HVAC

Energy Management and Analysis Software

30 A++ AC units

Investment

- 78.000 $ for all locations
- 5.000 $ Installation
- -------------------------------------
- TOTAL Investment
- 83.000 $

Savings

- Energy Savings
- 30.000 $
- Operation Optimization
- 5.000 $

Sustainable Energy Efficiency Projects

OFFICE BUILDING

Site

.Office Building

The office building is located at Istanbul. The building is used as HQ of Insurance company .

- 26 floors .
- Floors are between 1000-2000m2
- Total size of the building is 45.000m2
- Anual Energy consumption is 210k $.
- Energy Efficiency target is 20%

Project

- Real time energy consumption monitoring
- Energy consumption analysis according to occupancy changes
- Analysing day-cycle of the building
- Ventilation and lighting analysis during the day.
- HVAC optimization according to real time data that BEAD provides
- Optimization of the operations during the day
- Real time energy analysis reporting
- Predictive analysis for budgeting the energy costs
- Energy profiling for Renewable energy investments
- BMS system optimization
- Human-less operation of the building with BEAD AI
- Change of the old HVAC units

Investment

520 BEAD IoT devices

26 Energy Power Meters

26 Communication modules for HVAC
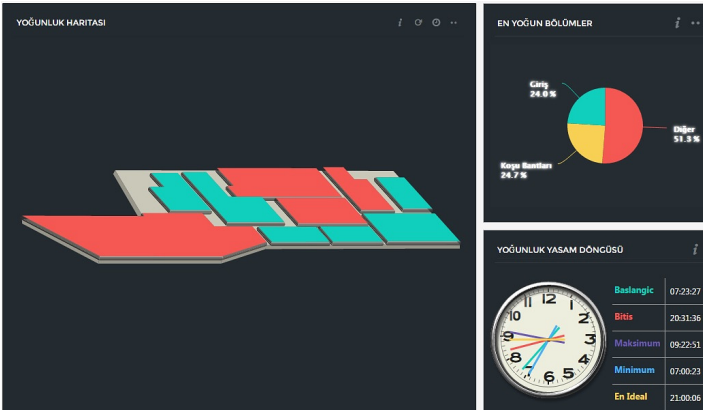
Energy Management and Analysis Software

Retrofit of HVAC

Investment

- 350.000 $ for all locations
- 25.000 $ Installation
- -------------------------------------
- TOTAL Investment
- 375.000 $

Savings

- Energy Savings
- 80.000 $
- Operation Optimization
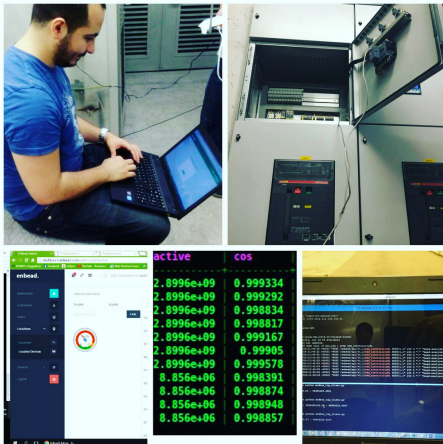- 10.000 $

Sustainable Energy Efficiency Projects

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FINANCE & BANK

Site

Bank Branches

The bank is a national Bank that is operating for 50 years at Turkey

- 250 branches .
- Branches are between 1000-2000m2
- Anual Energy consumption is 2.6M $.
- Energy Efficiency target is 15%

Project

- Real time energy consumption monitoring
- Energy consumption analysis according to occupancy changes
- Analysing day-cycle of the building
- Ventilation and lighting analysis during the day.
- HVAC optimization according to real time data that BEAD provides
- Optimization of the operations during the day
- Real time energy analysis reporting
- Predictive analysis for budgeting the energy costs
- Energy profiling for Renewable energy investments
- BMS system optimization
- Human-less operation of the building with BEAD AI
- Change of the old AC units

Investment

2500 BEAD IoT devices

250 Energy Power Meters

400 Communication modules for HVAC

Energy Management and Analysis Software

Retrofit of AC

Investment

- 1.350.000 $ for all locations
-   125.000 $ Installation
- --------------------------------------
- TOTAL Investment
- 1.475.000 $

Savings

- Energy Savings
- 550.000 $
- Operation Optimization
- 100.000 $

The costs and savings of the projects can change according to the structure of the building