

## Nearly Zero Energy Building Design and Digital Twin Platform EKOBİNA NZEB

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TÜBİTAK 1501 – TÜBİTAK  
Funding Program for  
Industrial R&D  
Project No: 3200491



2020 - 2023



Framework



Coordinator

Duration

### Objective

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Ekobina+'s goal is to develop an IoT enabled, intelligent energy monitoring and management platform for public and private buildings to reduce energy consumption, cost and emissions while improving indoor comfort and air quality conditions.

### Innovative Aspects & Technologies

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- Energy demand prediction through energy simulations and normalized building energy database
- Calibrated energy simulation capability using live and historical IoT data
- Decision support for energy management through demand prediction, cost optimization and digital twin methodology
- Automated performance measurement and verification capabilities developed using NZEB and digital twin methodology

## Impacts

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- Increasing company's domestic and export revenue by 79 and 16% respectively at the end of 5 years
- Developing potential for marketing the know-how
- Generating employment
- Reduction of environmental and climatic impact by reducing consumptions
- Improved indoor environment

## Ekodenge's Role

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### Coordinator

- Responsible for whole scope of the project
- Development of the Ekobina+ Platform



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