

COORDINATOR

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WEBSITE

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DURATION

48 months



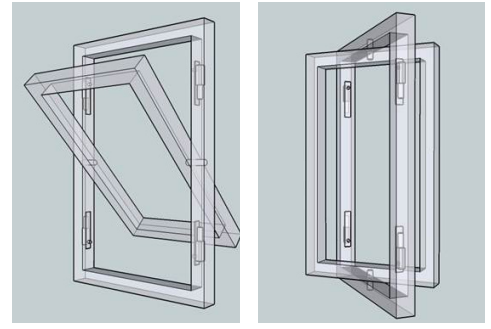
P2ENDURE aims to improve the availability and performance of energy saving solutions for deep renovation and transformation of vacant, obsolete or sub-optimal public buildings into dwellings.

The project provides Plug & Play solutions which are ready to implement, affordable, 50% faster from production to on-site assembly, scalable and adaptable (in all European countries).



P2ENDURE SOLUTIONS

- Multifunctional EASEE prefab panel
- Smart energy-efficient window →
- Bloomframe® folding balcony
- Rooftop retrofitting / extension module
- PnP smart connectors
- PnP prefab HVAC systems



- Compact energy storage
 - IEQ control systems
 - Connection to energy grid and RES production
 - Thermal and acoustic scanning technologies
 - 3D scanning (geomatics) – laser and photogrammetry
- ← ▪ On-site 3D printing and robotics

P2ENDURE

P2ENDURE CASES

The innovative solutions proposed in P2Endure will be complemented with a proof-of-performance, which is based on pilot implementation and monitoring in 10 live demonstration projects in all main EU geo-clusters.

Preliminary list of live demonstration cases

- School building in Tilburg, the Netherlands
- Historic monastery building in Tilburg, the Netherlands
- Historic hospital in Palmanova, Italy →
- Nursery school in Gdynia, Poland
- Residential district in Ancona, Italy
- Residential district in Genova, Italy
- Residential district in Kildeparken, Denmark
- Block of 10 family dwellings in Utrecht, the Netherlands
- University building in Enschede, the Netherlands →
- Block of three apartment buildings in Soest, Germany
- Nursery building in Warsaw, Poland
- Public Spa building in Hürth, Germany

The deep renovation within P2ENDURE covers **3 typologies:**

- Transformation from public or historic buildings into dwellings
- Deep renovation of residential buildings and districts
- Deep renovation of public buildings

