AEGIR

Incremental Renovation Package

AEGIR project Workshop
Project introduction

Shaping sustainable futures event
06.03.2025, Brussels

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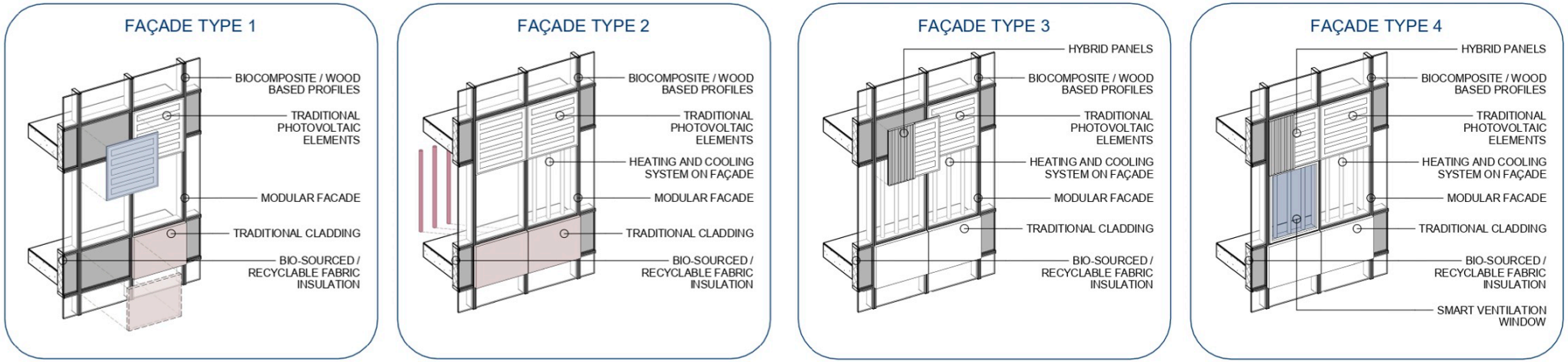
AEGIR Project objectives

Develop modular, renewable, and industrialized building envelopes for energy renovation



1. Design multifunctional (passive & active) scalable building energy renovation envelope packages to answer to a different range of needs.
2. Develop and implement an ecosystem of digital services in a common data environment.
3. Demonstrate AEGIR technical solution through its implementation and monitoring in four different building typologies (residential, office and educational) located in different climatic zones.

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Technologies from AEGIR Project

Construction Components

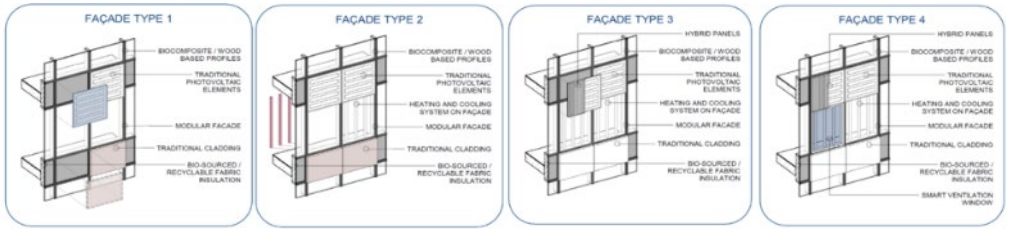
1. Scalable prefabricated renovation packages approach
2. Bio-composite profile system for prefabricated modules of envelope
3. Timber profile system for prefabricated modules of envelope
4. Bio-based thermal insulation system
5. Acoustic insulation system based on recycled fabric materials
6. Ventilation ducts integration in envelope solutions for retrofitting
7. Smart Windows

Energetic components

8. Flexible PV system
9. PVT panels
10. Second life batteries

Digital eco-system

11. Common Data Environment (CDE)- digital framework.
12. Digital services for a cost-effective renovation design
13. Façade modules configuration service. Façade Cloud Configurator
14. On-site building data capture system. PointPix Reality capture
15. Automated generation of Digital Twin. Ag2DT
16. Augmented reality for execution validation
17. Energy metamodels and artificial intelligence for building O&M

1. 

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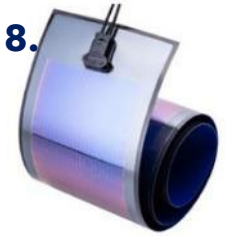
8. 
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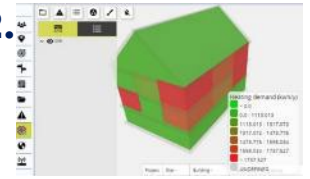
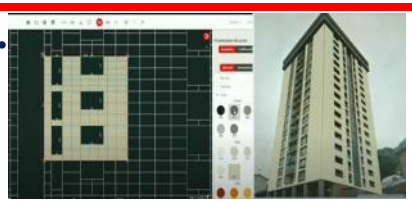
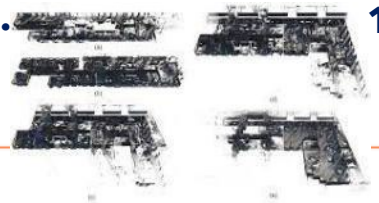
12. 
13. 
14. 
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Thank you!

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