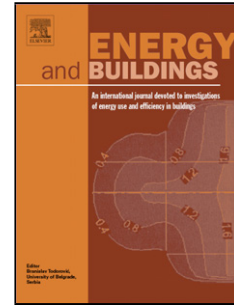


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1 **Highlights**

- 2 - Hybrid Systems in energy retrofitting of existing buildings.
- 3 - Three energy system layouts are designed involving hydrogen enriched natural gas blends.
- 4 - Sensitivity analysis to evaluate the technical feasibility of the proposed plant lay-outs.
- 5 - Power-To-Gas option by means of Hydrogen shows high potential
- 6 - The role of H₂NG blends in existing buildings and the effects on conventional technologies for heating.

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