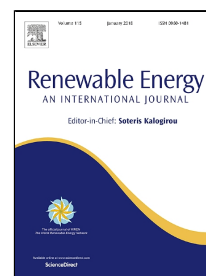


# Accepted Manuscript

Hybrid systems adoption for lowering historic buildings PFEC (primary fossil energy consumption) - a comparative energy analysis

Gianluigi Lo Basso, Flavio Rosa, Davide Astiaso Garcia, Fabrizio Cumo



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**Highlights:**

BIPV technologies feasibility analysis for historical buildings is carried out

Hybrid Systems suitability for energy retrofitting of historical buildings

6 energy system layouts involving hydrogen enriched natural gas blends are simulated

Sensitivity analysis on the PEC variations related to plant layouts is carried out

H<sub>2</sub>NG use in buildings and its effects on fossil fuel-based hybrid systems are discussed

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