

Photovoltaics is more than a KET

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The possibility to be integrated in buildings at any scale, is what gives PV a competitive advantage over other renewables like wind and hydro. If we take the objectives of the Italian Integrated Energy and Climate Plan and scale them up to meet the most recent targets of the European Green Deal, we expect at least 100TWh/a of electric energy to be provided by PV in 2030, a 4-time increase compared to 2020.

Rooftop and facade installations on Italian buildings have the potential to generate up to 200TWh/a with currently available PV technologies. Even if the total number of large PV plants awaiting authorisation to be connected to the high-voltage grid, amount to a total of 57 GWp (~75TWh/a), Infrastructure Integrated Photovoltaics (IIPV) is key to boost the transition towards distributed generation, energy communities and to a modern and more resilient grid. IIPV can also trigger the relaunch of the building industry in the frame of the green economy.