

In this research work, a plan to implement a zero-energy building (ZEB) scheme for a hot and dry climate region in Iran, i.e. Yazd, is introduced and a comparison with a typical house of that climate is performed.

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This paper examines the use of renewable energy in two major city buildings in Iran. In this paper, solar radiation in two cities (Tehran and Yazd) is analysed. The average annual sum of solar irradiation in Yazd is 2200 kWh/m<sup>2</sup> and in Tehran, the amount is 2000 kWh/m<sup>2</sup> [1].

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The annual average of solar radiation in terms of climate in the city of Tehran is equal to 6000 MJ/m<sup>2</sup> per year [22]. In terms of the urban situation and the facilities the city has, it is economical to build high-rise buildings with more facilities for advanced BIPV equipment.

Iranian city of Mashhad now generates 888 MWh of electrical energy annually by installing solar panels on the rooftops of its 21 buildings. Recently, the Iranian government required some institutions and organizations to obtain at least 20% of their energy consumption from renewable energy sources.

While Iranian policies for wind power are more aggressive in the short-term, plans for solar capacity are ambitious in the long-term. For instance, Iranian power developer Sunir and a Spanish company called Bester recently revealed plans to significantly expand Iran's solar potential by 2020.

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# Solar city house Iran

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