Solar city house Iran

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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The annual average of solar radiation in terms of climate in the city of Tehran is equal to 6000 MJ/m2 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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This report investigates technical and economic aspects of using passive and active solar thermal methods for a low-carbon-emitting house in Tabriz city, Iran. The house is designed and developed using reduced embodied carbon materials, which improved the energy efficiency of the building with the use of materials such as natural wood for wall ...

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