

## عنوان مقاله:

Façade source of energy for sustainable architecture in middle east

## محل انتشار:

کنفرانس بین المللی عمران ، معماری و منظر شهری (سال: 1395)

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## خلاصه مقاله:

As we know these days government's main problem, temperature and carbon publication increase led to many meetings and conferences in Tokyo, Paris, Copenhagen, New York... Governments make conclusive decision to control temperature increases by using of clean and sustainable energies and decrease fossil energies use. To reach these goals we should know about sustainable energies, new materials, photovoltaic, wind energy, bio gas,...and their usage. This depend on climate, geography, the value of land, facilities, potential of available energies... We should make research about past similar projects at first and then match outcome information with our project's requirements. At last we should choose the best materials and energies to our design. For example using of wind turbines in places with low speed wind has no Justification. The main goals are saving energy, decreasing carbon publication, decreasing pollution, revenue through out decreasing fossil energies and exporting extra energy. Research method in this paper is analytic-descriptive. In this paper we used attributive and libraries studies, online sites and case studies ,documents and papers studied and checked for data collecting .According to documents and evidences concluded we can use photovoltaic cells and wind turbines in facade crust and we can use green walls in order to insulation, wind shield, saving facade in front of UV ray, getting pollution, dangerous gases absorption, ghosting, decreasing vertical airflow, decreasing temperature in urban centers, increasing natural cooling...and wind catcher can be used to .get airflow and make it cool and light by using of water mattresses embed in chimney, direct to enclosure

## کلمات کلیدی:

façade, photovoltaic, wind energy, wind catcher, , zero energy building

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