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Floating power plant a solution for the power generation at offshore drilling rig

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In present situation use of oil product for the power generation are quite expensive and harmful for the environment, due to the emission of CO_2 and increase cost of petroleum product, for that people are rush towards the use of renewable energies, especially the energies which does not produces greenhouse gases and easy to harvest. Ocean is the gift of God, which is full of all these types of energies. Tides and Wind is the main source of the energy for the power generation not only this but it is present in large amount and easy to harvest. Tidal and wind energies can easily be converted into electrical energy with high efficiency as compared to other form of renewable energies. Here we use a tidal & wind power plant which converts the wind & wave energy into electrical power that power will be used for the offshore operations. This new floating power plant will decrease the cost of operations, as it is portable, so can we easily transfer it from one drilling well to another. Nowadays there are many wind farms in the ocean, many of the largest offshore wind farms operating & located in Germany, China and the United States. For example, the largest wind farm, the Gansu wind farm in China of the world has a capacity of more than 6000 MW in 2012 with a target of 20,000 MW by 2020. But from the initial results and experiments it expected that we will be able to produces more than 400MW in the 2020. this plant will fulfill over power and portability requirements for the offshore operations and reduce the emission of the harmful gases from the power generators at the rig site. This is the first time that we are going to use the renewable energies for the power generation at offshore drilling rigs, this power we will use for the offshore operations, which will bring the revolution in the petroleum industry.

Biography

Sharafat Ali Mangi is a graduate of department of Petroleum & Natural Gas Engineering Program at Mehran University of Engineering & Technology SZAB Campus Khairpur Mir's Sindh Pakistan. He has been member of many professional and student organizations. Also he has presented more than ten Research papers in National and International Conferences.

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