

عنوان مقاله:

Integrated Operation of Shiraz Petrochemical Complex by Using Multi-Carrier Energy Systems Approach Including Electricity and Steam

محل انتشار:

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خلاصه مقاله:

Today, with the rise of prices for energy carriers and increase needing for attention to environmental issues, the optimal use of energy resources has become very important. In the past, each of the energy carriers, such as electricity, gas, steam, etc., was independently studied, but in recent years a lot of research has been done to integrate multi-energy networks. In these networks, the energy is transmitted between the carriers, and these transitions add up dependencies to carry loads associated with each of the energy carriers. Despite the fact that this approach has been used in power distribution networks such as Gas and electricity networks, it has not yet been implemented in industrial complexes such as petrochemical and refinery complexes, especially inside Iran. The leading article attempts to implement the approach of multi-carrier energy systems to a real industrial complex (Shiraz Petrochemical Complex).

کلمات کلیدی:

Electricity and steam, Integrated analysis, Multi-carrier energy system, Petrochemical and refinery industries

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