

As part of the NYSERDA NextGen Building Innovation Program, Sunamp installed its PCM heat batteries in a home in Montauk, NY, to optimize solar thermal energy use and minimize ...

In this work, we present an integrated energy system for solar enhanced oil recovery (SEOR) process accompanied with electricity generation, fresh water and elemental ...

It also shows that some upstream oil and gas industries have already utilized solar energy in demonstration field applications. The review concludes that the application of ...

The heat is stored in the reservoir until there is a demand for energy. The energy is brought to the surface and can be used to generate electricity or process heat, making the system adaptable ...

For saving electricity, this paper proposes a new approach for pipeline transportation of crude oil by solar heating and makes evaluation of the annual performances. ...

It has a wide range of thermal and power substitution potential in overseas oil and gas cooperation projects with sufficient solar energy in West Africa, the Middle East, South ...

In the Miraah project, solar thermal energy generates high-pressure steam, which is then injected into the oil reservoir to heat heavy oil. This process reduces the viscosity of the oil, making it ...

The purpose of this study is to investigate the potential use of solar energy within an oil refinery to reduce its fossil fuel consumption and greenhouse gas emissions. A validated ...

Capital costs tend to be low for gas and oil power stations; moderate for onshore wind turbines and solar PV (photovoltaics); higher for coal plants and higher still for waste-to-energy, wave ...

Paratherm heat transfer fluids are advantageously suited to meet the demands of the alternative energy and emerging technologies markets. From high temperature solar energy collection ...

This study investigates the storage of solar thermal energy using thermal oils in Kilis, Türkiye, a region characterized by high solar potential. Both experimental and modeling ...

Five solar thermal energy technologies have been evaluated. The obtained results reveal that solar chimney technology is the best scenario for integrating the EOR ...

Currently, most of the industrial sectors use fossil fuels to meet their heat energy requirements and it can be

replaced by renewable energy resources particularly solar energy. ...

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