

For instance, in November 2021, Avanceon, in partnership with PE Energy Limited (PEEL), secured the contract for providing digital oilfield solutions to revive the Kalaekule oilfield in Nigeria. In addition, Avanceon and PEEL will combine their expertise and resources to offer electro-hydraulic wellhead control panels to revitalise the critical ...

Ample sunlight and tens of thousands of abandoned oil wells and experienced oilfield workers have made Kern County the focus of a new battery-storage technology. The plan is to retrofit depleted oil wells to store concentrated solar energy in super-heated groundwater for long periods of time, then use that heat to drive turbines when energy ...

4.2 Data Ecosystem Construction Plan. The data ecosystem of gas storage is mainly divided into two categories, static data and dynamic data, static data from the unified A1, A4 and Jidong Oilfield data lake, digital delivery platform (new), dynamic data from the unified A2 and IOT data, through data linkage, import and other different ways to form the data ...

Unlock efficiency and cost savings. Our integrated solution combines cutting-edge treatment technologies with tailored production chemistries. By addressing the unique composition of produced water on a case-by-case basis, we efficiently tackle high salinity and remove other contaminants, such as emulsified oil and suspended solids.

In response to the objective of fully attaining carbon neutrality by 2060, people from all walks of life are pursuing low-carbon transformation. Due to the high water cut in the middle and late phases of development, the oilfield's energy consumption will be quite high, and the rise in energy consumption will lead to an increase in carbon emission at the same time. ...

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Purpose of Review As the application space for energy storage systems (ESS) grows, it is crucial to value the technical and economic benefits of ESS deployments. Since there are many analytical tools in this space,

this paper provides a review of these tools to help the audience find the proper tools for their energy storage analyses. Recent Findings There ...

ODSI is commemorating the 10th anniversary of the first installation of its real-time well/reservoir evaluation package, Well Analyzer-RTS. The purpose of ODSI's service is to automate many of the time-consuming reservoir and production engineering calculations and analyses, then present those results to the engineers in a manner that can be acted upon in a timely fashion.

The idea of digital oil field is where the smart oil field concept evolves. The digital oilfield core is networking and digitalization that underlines collection of data. Smart oilfield presents human and artificial intelligence by contrast, hence, underlining their integration and focusing on sharing knowledge, managing intelligence, making ...

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Several modules combined with a regional fuel center solution can meet the clean energy supply requirements of large-scale oil field. Each module is put into operation after assembly, debugging and other processes. The system generates high temperature and high pressure water steam to provide energy for oil field exploitation.

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Presently, research on multi-energy complementary systems mainly focus on the modelling and optimal regulation. In the static model of multi energy complementary system, its modeling method is relatively mature. For example, from the earlier energy hub model [5] and the joint power flow model based on network topology [6, 7], to the electric, gas and heat multi ...

With the concept of carbon neutralization gaining popularity, energy storage technology has been widely concerned and applied [1, 2]. In this paper, the oil field energy storage power supply is designed, and the energy storage technology is applied to the oil field power supply. The interleaved parallel technology is used in the energy storage

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Energy is essential in our daily lives to increase human development, which leads to economic growth and productivity. In recent national development plans and policies, numerous nations have prioritized sustainable energy storage. To promote sustainable energy use, energy storage systems are being deployed to store excess energy generated from ...

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Iron flow technology allows for unlimited cycling with zero capacity degradation over a 25-year design life. That enables stacked revenue streams. ... is the leading manufacturer of long-duration iron flow energy storage solutions. ESS was established in 2011 with a mission to accelerate decarbonization safely and sustainably through longer ...

where  $k$  is the wind correction factor and  $h_{hub}$ ,  $h_{ref}$  are the height of the wind turbine (WT) hub and reference data, respectively. An average wind speed of 10.2 m/s at the turbine hub height was calculated, in line with the expected range of 9-11 m/s for offshore applications on the Norwegian Continental Shelf (Berge et al., 2009). Refer to the ...

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