

Tarim Basin Solar Power Station

What is the Tarim Basin?

The Tarim Basin is the oval desert in Central Asia. Xinjiang consists of two main geographically, historically, and ethnically distinct regions with different historical names, Dzungaria and the Tarim Basin (Altishahr), which Qing China unified into Xinjiang province in 1884.

Why is Tarim Basin so difficult to explore?

Tarim Basin is a major petroliferous basin in China, and one of the most difficult areas to explore due to its harsh ground environment and complicated underground conditions. The company has discovered and developed 32 large and medium-sized oil and gas fields, with the total output exceeding 470 million tonnes over the past 30-plus years.

Where is the Tarim Oilfield located?

The Tarim Oilfield is located in the hinterland of the Taklimakan Desert, the largest desert in China, within the Tarim Basin of Xinjiang. The green energy generated is equivalent to 22,200 tonnes of standard oil, reducing carbon dioxide emissions by 70,500 tonnes, according to the China National Petroleum Corporation (CNPC).

A temporary seismometer vault was buried by a moving sand dune in the Taklimakan Desert at northwestern China in October 2019. The dune gradually covered the solar panel and the ...

Gas washing and oil mixing have been widely studied in the Tazhong area of the Tarim Basin, but their effects on Cambrian subsaltic dolomite reservoirs have not yet been ...

The Tarim Basin in the western part of Northwest China (NWC) is the largest inland basin in the world and one of the most arid regions in the middle latitudes. In recent ...

The Tarim Basin (Xinjiang Province) in northwestern China hosts the Taklamakan Sand Sea, the second largest sand desert of the world. Precipitation in the basin ...

The wetlands in the middle and lower reaches of the Tarim River are a rich area of biodiversity and natural resources in the inland arid region of China. However, this wetland ...

Vegetation in ecologically sensitive regions has experienced significant alterations due to global climate change. The underlying mechanisms remain somewhat ...

The first ever (to our knowledge) long-term characteristics of aerosol absorption optical depth (AAOD) and then absorption Angstrom exponent (AAE) over the Tarim Basin ...

URUMQI -- The photovoltaic power project in the Tarim Oilfield has generated over 105 million kWh of

green electricity so far this year, said its operator, China National ...

INVITATION TO BID (ITB) (Supply and Installation of Hybrid Solar Power Station for Tarim Water Field (11 Boreholes) in Tarim district_Hadramout)ITB Reference No: ...

Based on high-resolution grid data, the applicability of the PM-H algorithm has been improved, and our calculations show that the mean annual potential evapotranspiration ...

The dune gradually covered the solar panel and the power supply to the seismic station was subsequently cut off. Here, we show that the burial process can be diagnosed ...

The Tarim Basin is located in an arid inland area; the ecological environment is fragile, and it is extremely sensitive to climate change. For the purpose of studying dynamic changes in the vegetation response of ...

Global changes in drought and wetness and their future trends in arid regions have recently become a major focus of research attention. The Tarim River Basin (TRB) in ...

Located in Northwest China's Xinjiang Uygur autonomous region, Tarim Basin is a major petroliferous basin in China. The company has discovered and developed 32 large ...

A typical example from the Tarim Basin was selected as a case study, where typical saucer-shaped sills and peripheral faults were observed [18,22]. The seismic reflection ...

The Tarim River Basin (TRB) is one of the world's largest cotton-producing areas, and its agricultural water use accounts for up to 95% of the total water consumption in ...

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