

Photovoltaic support installation in the upper reaches of the Yellow River

How many hydropower stations are there in the Yellow River basin?

This section is the main distribution area of hydropower resources available for development in the Yellow River basin. At present, 14 hydropower stations have been developed in this section with a total installed capacity of 13.178 million kW, which is rich in hydropower resources.

Where is the Yellow River located?

In addition, the river section is located on the Qinghai-Tibet Plateau in northwest China. With an average altitude of 3,000 m above sea level, the upper reaches of the Yellow River have significant advantages in wind power and PV power.

Why did Huanghe start a solar PV project in Talatan?

When first planning for the PV project in Talatan, Huanghe sought ways to deploy PV power stations in a way that would benefit both the natural ecosystem and the PV industry. To absorb the impact of desert wind and sand on solar PV panels, Huanghe sowed pasture seeds around the PV park.

Is there complementarity in the Yellow River?

The comprehensive complementarity coefficients of various return periods are all greater than 0.5, which indicates that there is certain complementarity in the upper reaches of the Yellow River with medium-long-term.

Where is the PV power station in Gonghe County?

We took a trip to the PV power station in Talatan, Gonghe County, 60 km southeast of the lake. As you travel from the provincial capital Xining to Gonghe County, the steep mountains on both sides of the road gradually recede and the horizon gradually widens.

Where is Qingyu UHVDC power transmission line located?

The Qingyu UHVDC power transmission line that the plant supports stretches 1,563 km from Hainan in Qinghai Province to Zhumadian in Henan Province and is capable of lighting up the Central Plains region with 100% clean power.

The Qin River joins the Yellow River in southern Wuzhi. The main stream flows for 485 km and drains 135,300 km². (9) JDR (36°17'6.9"N, 116°17'3.42"E): The confluence of Jindi ...

For instance, Liu et al. (2021) used BFAST to evaluate the trends of runoff change in the upper and middle reaches of the Yellow River, Coladello et al. (2020) to assess ...

The drainage basin of the upper reaches of the Yellow River from Lagan Gorge to Liujia Gorge, which spans

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Gonghe, Guide, Jianzha, Xunhua and Linxia basins, is located in ...

A number of large dams have been built in the upper reaches of Yellow River to meet the demand for electrical power and agricultural irrigation. In specific conditions, where ...

The cryosphere, which encompasses glaciers, frozen ground, snow, and various forms of ice, is one of the most vulnerable spheres of the Earth to human activities and climate ...

The Yellow River irrigation area in Tumochuan Plain is one of the primary grain production areas in the middle and upper reaches of the Yellow River Basin (YRB).

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Ecological footprint is an important method for regional sustainable assessment. Scientific assessment of the ecological sustainability of the upper reaches of the ...

Given the significant role of the Ningxia Urban Agglomeration along the Yellow River in reshaping the urban network and promoting coordinated development in the upper ...

Actually, climate changes induced a similar degree of runoff reduction in the upper and middle reaches as revealed by a nearly same ratio of climate-induced runoff ...

The spatiotemporal evolution of population urbanization and its relationship with economic variables are important aspects of socioeconomic research and essential for ...

long roots support rapid stabilization of newly formed bars and islands as pioneer landforms. ... valley confinement of the four study reaches along the Upper Yellow River in western China. ...

Despite decades of study, the factors that controlled the formation and evolution of the upper reaches of the Yellow River, including uplift of the northeastern Tibetan Plateau, ...

The present study divided the Yellow River Basin into three reaches according to its geographic characteristics: the upper reaches (from source to Hekou Town, 3472 km), ...

The Longyangxia-Liujiaxia section of the upper reaches of the Yellow River is situated in eastern Qinghai Province and western Gansu Province, serving as a transition ...

Deterioration of the ecological environment in the upper and middle reaches of the Yellow River in China substantially impacts the growth and development of aquatic ...

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