



Eastern data and western computing plus photovoltaic panels

What is eastern data & western computing?

To address these challenges, the "Eastern Data and Western Computing" initiative was launched in 2022 as a national project. This initiative aims to leverage the advantages of land, energy, and lower mean annual air temperature in the western regions to build a robust computing infrastructure.

What is the 'east computed by the West' project?

This marks the start of the "east computed by the west" project, which is aimed at coordinating the computing capabilities between the eastern and coastal provinces and the western inland regions.

Why do we need a power center in the Eastern Region?

Setting up such centers would also increase the burden on the eastern region's power requirement, which is already very high. However, under the project, computing for eastern provinces can be carried out in the western regions, thus reducing the pressure on energy. It helps that western regions have abundant renewable resources.

How will a new data center bridge the east-west divide?

Most significantly, the project puts great emphasis on bridging the east-west divide in terms of both data center infrastructure and data processing demand. According to the government's blueprint, data processing workloads in the east that don't require especially low latency will be shifted to data centers in the west.

How can a computing center help reduce the east-west gap?

Setting up computing centers in the west will also help create more jobs there. Next, more investments could follow, which can do wonders for the western regions' economy and shrink the east-west gap.

What is the west-east electricity transfer project?

China has long been known to undertake ambitious projects that seek to move resources right across the country to develop areas critical to the economy. Typical of this is the West-East Electricity Transfer Project, which transmits electricity generated in hydropower plants in western China to its southern, central and northern regions.

Eastern data, western computing · 2023-06-14 · Source: NO.24 JUNE 15, 2023: Computing power, or the capacity of a computer to execute complex operations, has recently become a major engine for China's ...

The "eastern Data and Western Computing" Initiative in China Contributes to Its Net-Zero Target. ... To address this, China has launched a bold initiative to relocate data centers to the western ...

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Unbiased, data-driven analytics, now possible using data science methodologies, represents a new front in our research studies of critically important and complex systems. References. 1. ...

A general rule for optimal annual energy production is to set the solar panel tilt angle equal to the geographical latitude. For example, if the location of the solar array is at 50o latitude, the optimal tilt angle is also 50o. ...

The data were collected using online survey questions and interviews with users of PV solar panels, sellers of PV solar panels, recyclers of PV solar panels, and local ...

The main data that impacts the solar panel performance consists of the solar direct normal incident (DNI), direct horizontal incident (DHI), global horizontal incident (GHI), ...

Abstract. In the context of global carbon emission reduction, solar photovoltaic (PV) technology is experiencing rapid development. Accurate localized PV information, including location and size, is the basis for PV ...

Nvidia CEO Jensen Huang recently commented that "the ultimate challenge for AI lies in harnessing solar energy and energy storage." ... This development will alleviate the high cost and shortage of computing power ...



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