

Within this context, this study attempts to make full use of local solar energy resource and upper space of water channel to construct an on-channel photovoltaic (PV) system.

This study developed a multi-dimensional framework to explore regional clean transition and electrification pathways, emphasizing how these shifts reshape industrial water demand and ...

The South-North Water Transfer Project is intended to alleviate chronic water shortages in northern China, support economic development, and curb over-extraction of groundwater.

Based on image data, the longitude and latitude of critical points on the middle route of the south-to-North water Diversion Project were determined.

Water scarcity is a significant challenge in China, and the South-to-North Water Diversion Project (SNWDP) aims to address the water deficit in the northern region.

Based on-site data and PVSyst model, this study took the central line of the "South-to-North water diversion" project as an example to examine the technical and economic feasibility of the ...

These trends underscore the urgency of developing robust, adaptive water management strategies and highlight the relevance of large-scale projects such as the South-to-North Water ...

OverviewHistoryEast routeCentral routeWest routeFinancingImpacts and criticismSee alsoThe South-North Water Transfer Project, also translated as the South-to-North Water Diversion Project, is a multi-decade infrastructure mega-project in China that aims to channel 44.8 cubic kilometers (44.8 billion cubic meters) of fresh water each year from the Yangtze River in southern China to the more arid and industrialized north through three canal systems:

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Mega water infrastructure project play a critical role in addressing regional water allocation imbalances and meeting agricultural water demands. This study focuses on the Middle ...

Our results show that the transferred water will replace about 2.97 billion m³ of exploited groundwater in the water reception area by 2020 and hence reduce energy consumption by 931 million kWh.

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