

There are only very specific initiatives, usually promoted by the private sector. In Chile, for example, there is the Espejo de Tarapacá; pumped-storage project, which already has environmental permits; and in Peru, a ...

The region of interest in this study is the MC basin, located in northwestern South America and draining an area of 276, 000 km² (Fig. 1).The Magdalena river originates from ...

The strategic water storage project in Jeddah is the largest of its kind built in Saudi Arabia to date. It is part of a large construction project of water storage facilities. The first phase will be carried out in the Briman district with a total ...

We find that future levels of reservoir storage expansion could be a significant driver of physical and economic water scarcity, highlighting the importance of strategic water infrastructure development in maintaining future ...

The terrestrial water storage includes water stored on Earth's surface in the form of snow, ice, and vegetation, as well as water stored within the ground (groundwater and soil moisture), which ...

Climate models currently project a temperature rise above 1.5 °C by the end of this century and considerable changes in precipitation patterns globally (Flato et al. 2013) ...

When water availability in streams and groundwater drops below water demand, drought conditions are felt by ecosystems and people. This was the case during 1996 to 2010 in Australia, 2013 to 2015 in South ...

As International Hydropower Association (IHA) reports in its 2023 World Hydropower Outlook, countries in the South American region are making considerable advances in implementing policies and setting targets to ...

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