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The use of a larger centralised chiller will improve overall energy efficiency. And for stations with limited footprints, it eliminates the need for chiller plant and cooling tower space, ...

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Abstract Currently, the air-conditioning cold source system in underground subway stations typically adopts the combination of traditional water-cooled chillers and cooling towers. The ...

The aim of this study was to investigate the effects of underground building construction with a new design to allow natural ventilation and daylight combined with an evaporative cooling ...

Greatly improved fire safety manage-ment both within the underground sub-station and above ground level Significantly reduced risk of a breach of the transformer system tank in the un-likely event of an ...

1. Introduction The necessity of air-conditioning and also long operation hours is a major cause of the enormous amount of energy use for an underground train station.

This paper tackles one of the key challenges regarding transport tunnels: sustainable cooling of underground substations, by introducing an efficient and cost-effective cooling method.

Rapid economic growth and high urbanization rates create an urgent need for more space in major cities in China. Further development of underground sp...

It is not always true that mechanical ventilation sys-tems are more energy efficient than air-conditioning systems. This paper demonstrates that the energy use of air-conditioning systems in some of the ...

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Whether it's an off-grid station in a remote area or an urban grid requiring load balancing, the 233/250/400kWh Liquid-Cooled Outdoor Cabinet Energy Storage System is up to the task.

The underground ventilation and air-conditioning system of the station accounts for about 40% of the total energy consumption of the subway. One of the important reasons is the cooling load ...

This work presents a novel methodology to improve the efficiency of underground substations' cooling systems and to overcome the environmental and economic implications of ...

By adopting Scheme 2, the cooling water network connecting from the underground station to the outdoor ground can be reduced, which reduces the difficulty of construction.

