



# High-efficiency photovoltaic containerized agricultural irrigation equipment from Kazakhstan

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This study explores the design and adaptation of a shipping container into a portable irrigation control station for agricultural operations. The project leverages the structural durability and ...

Accordingly, this study aims to achieve stable and high-quality spraying of solar sprinkler irrigation systems under high working pressure without being affected by the ...

This research focuses on developing an intelligent irrigation solution for agricultural systems utilising solar photovoltaic-thermal (PVT) energy applications. This solution integrates ...

Including the levelized cost of electricity and net present value, a comprehensive techno-economic assessment model is proposed to analyze the agricultural photovoltaic and ...

In conclusion, this study provides solid evidence of the effectiveness of photovoltaics systems integrated within irrigation systems as a comprehensive solution to ...

Therefore, the study aims to advance sustainable urban agriculture by designing and evaluating a solar-powered smart rooftop irrigation system for peppermint cultivation. The system...

**KEY MESSAGES** SPIS can reduce GHG emission from irrigated agriculture and enable low-emission irrigation development. SPIS can provide a reliable source of energy in remote ...

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