

REVOLUTIONIZING HYBRID MOBILE STORAGE WITH ADSORPTION COOLING SOLUTION

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The presentation highlights the advancements and trends in adsorption cooling technologies with a special focus on mobile solutions for onboard heat recovery and storage. It introduces the basic principles of adsorption cooling, key characteristics of adsorbent materials, and the benefits of traditional cooling methods. The presentation covers state-of-the-art systems and innovative materials and it delves into mobile applications including truck AC, van cold storage and heat storage on large ships. The market and technological opportunities will be explored as well. Emphasizing the environmental and operational cost benefits, the presentation showcases how adsorption storage and cooling technologies can significantly reduce CO₂ emissions and electricity consumption, and enable energy recovery providing a sustainable solution for mobile needs.