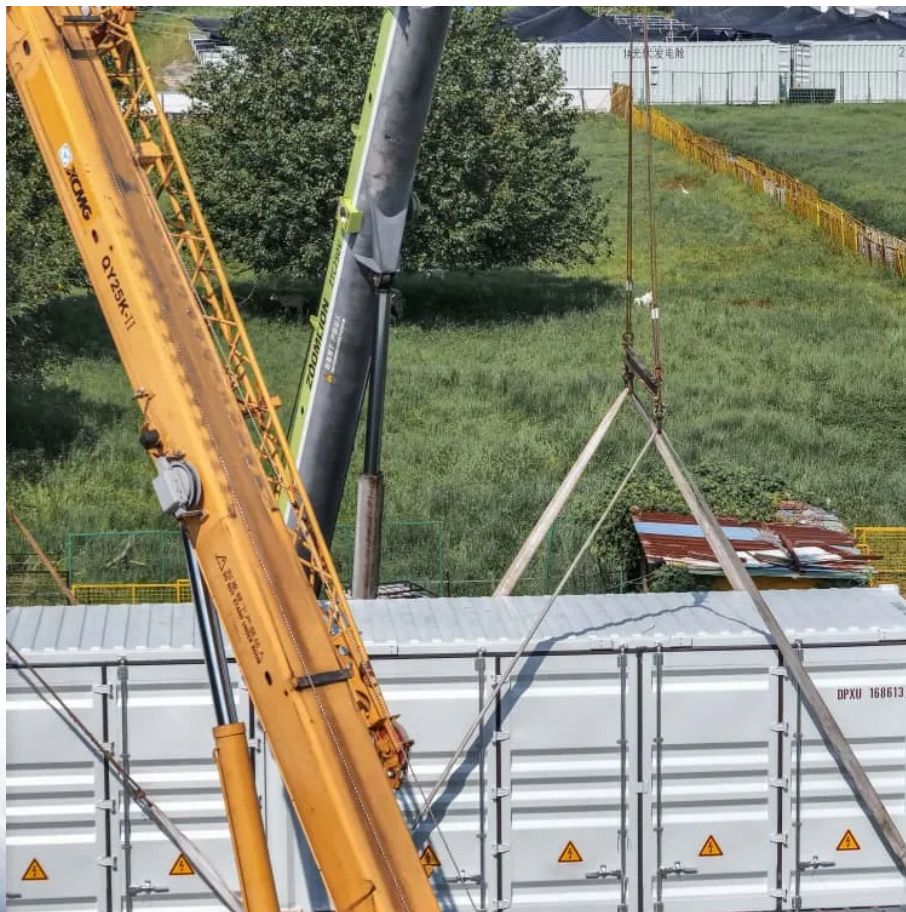


5G solar container communication station wind power construction and smart construction





Overview

Can 5G technology revolutionize the construction industry?

Despite the immense potential that 5G networks hold for revolutionizing monitoring, control, and automation within the construction industry, there has been limited exploration of this area so far. Particularly in the context of teleoperated or automated construction machinery, establishing a reliable wireless communication system is paramount.

Why is 5G technology important for outdoor construction sites?

In outdoor construction sites where automated machine control becomes more important, 5G technology excels in providing enhanced robustness and reliability, effectively managing uncertainties associated with heavy-duty construction equipment.

What is 5G technology?

In response to these challenges, the Fifth-Generation (5G) technology has emerged as a technology poised to fulfill the specific needs of the construction industry (3GPP 2020).

Is 5G based remote control a viable technology for construction machinery?

In recent years, notable companies such as Doosan Infracore have successfully showcased the 5G-based remote control technology for construction machinery. However, while these demonstrations have piqued interest, the intricate technical details that underpin this technology have remained unpublished, as observed in Doosan Group (2019).



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