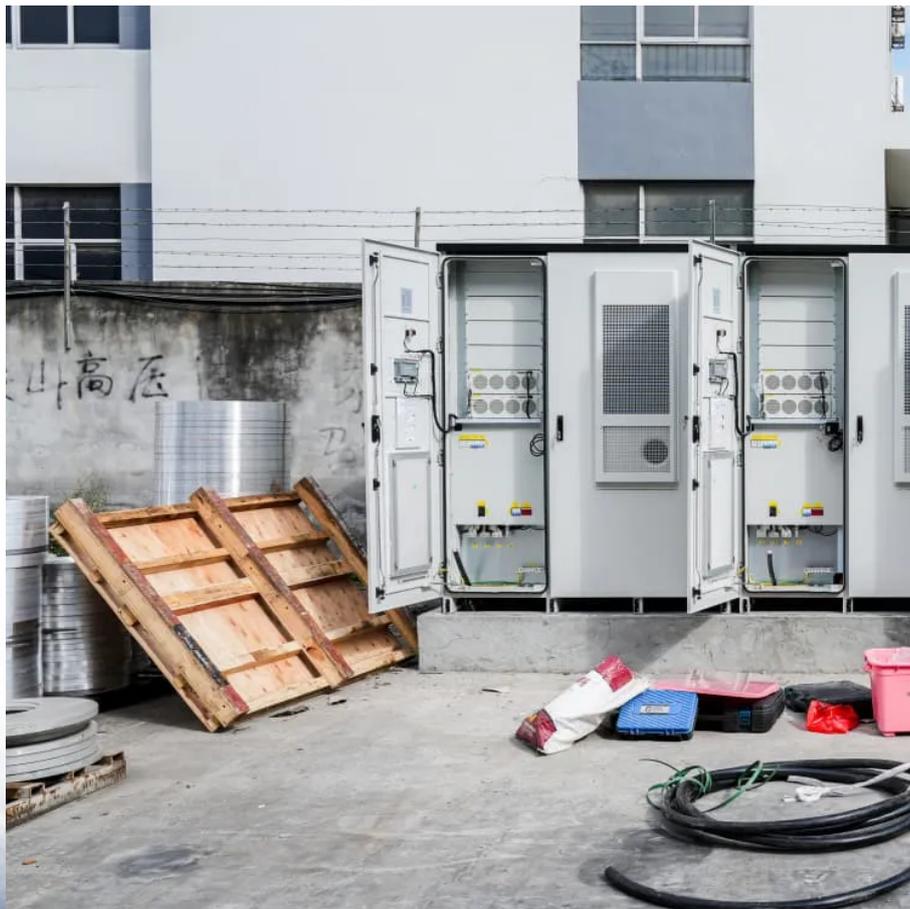


# **Where are the lead-acid batteries for solar container communication stations in Kazakhstan**





## Overview

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What types of battery technologies are being developed for grid-scale energy storage?

In this Review, we describe BESTs being developed for grid-scale energy storage, including high-energy, aqueous, redox flow, high-temperature and gas batteries. Battery technologies support various power system services, including providing grid support services and preventing curtailment.

Which aqueous ZIB battery has the highest technological readiness?

Among numerous aqueous ZIBs, alkaline nickel-zinc (Ni-Zn) batteries exhibit the highest technological readiness level 79, delivering a practical energy density around  $80 \text{ Wh kg}^{-1}$  and a high output voltage (about 1.7 V) 80.

What is a sodium-sulfur battery?

Sodium-sulfur (Na-S) batteries are typical high-temperature batteries, which use sodium and sulfur as the active materials for the anode and cathode, respectively, with  $\text{Al}_2\text{O}_3$  serving as the solid electrolyte and separator 92 (Fig. 4d).

How are battery technologies developed?

Battery technologies undergo a sequence of developments that include research on materials and cell stacks, followed by the scaling up of battery systems and mass production of critical materials, culminating in industrialization (Supplementary Fig. 6).



## Where are the lead-acid batteries for solar container communication



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