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# **Coal-to-electricity energy storage device in Almaty Kazakhstan**





## Overview

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Could coal-fired power plants be used in Kazakhstan?

As already mentioned in the previous chapter, some existing coal-fired power plants could be used in Kazakhstan to increase flexibility so as to integrate more variable renewable power in the medium term.

Will Kazakhstan throw coal out of the energy sector?

“The energy sector of Kazakhstan traditionally operates mainly on coal, and the share of coal consumption is quite large. We will not throw coal out of the equation. Moreover, we want to build new coal power blocks and modernise those coal power plants that we already have”.<sup>8</sup>

Who owns Almaty Power Station?

The Almaty-2 power station is owned and operated by Almaty Power Plants JSC, which is fully owned by Samruk-Energo, which in turn is owned by the National Welfare Fund of Kazakhstan Samruk-Kazyna. Almaty Power Plants also includes Almaty-1 power station and the Almaty-3 power station.

Where is Almaty 2 power station?

Almaty-2 power station (ТЭЦ-2 имени А. Жакутова, АО "АлЭС" Алматинская ТЭЦ - 2) is an operating power station of at least 510-megawatts (MW) in Almaty, Alatau, Kazakhstan with multiple units, some of which are not currently operating. The map below shows the exact location of the power station. Loading map. Unit-level coordinates (WGS 84):



## Coal-to-electricity energy storage device in Almaty Kazakhstan



[Coal power plants in Almaty, Kazakhstan](#)  
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6 days ago · Let's replace coal power plants with renewables for a green future! Find all coal power plants in Almaty, Kazakhstan here & get more information!

### [EDB Issues Bonds to Fund Almaty Power Plant Modernization](#)

Mar 3, 2025 · The proceeds will finance the reconstruction of Samruk Energy, the parent company of Almaty Electric Power Plants (AIES). A key component is the installation of an over 500 ...



[A new era for Almaty CHPP-3: reconstruction and ...](#)

Nov 13, 2023 · What does reconstruction include? Reconstruction of Almaty CHPP-3 provides for the construction of a completely new power plant with significantly greater power and ...

### [EDB Projects - Eurasian Development Bank , ?????????? ...](#)

Project description The project helps to diversify Kazakhstan's energy mix by replacing coal-fired generation with gas-fired generation. The project is expected to foster sustainable economic ...



## [Construction begins on largest clean energy power plant in Kazakhstan](#)

Construction officially commenced on the largest clean energy power station in Kazakhstan - project to modernize (coal to gas conversion) the Almaty CHP-2 - on July 1. The project is led ...

## [Kazakhstan: Central Asia's Energy Transition Pioneer](#)

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## **Almaty-2 power station**

2 days ago · Almaty-2 power station (????-2 ??????. ????????, ?? "????" ??????????? ??? - 2) is an operating power station of at least 510-megawatts (MW) in Almaty, Alatau, ...



## 56169-001: ALES Energy Transition and Modernization Project

Mar 15, 2023 · The proposed Project will gradually decommission and replace inefficient coal-based power generating units with combined cycle gas turbine (CCGT) units with an installed ...



## Modernising Kazakhstan's coal-dependent power sector ...

Feb 27, 2024 · Kazakhstan is a net importer of electricity, with electricity consumption exceeding production by 4%.<sup>21</sup> The electricity shortfall is covered by purchases from Russia, which ...

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