

 Early Warning System

NDB-STWZEROCARBONAIRPORT

Shanxi Taiyuan Wusu Zero-Carbon Airport Project



Quick Facts

Countries	China
Specific Location	Taiyuan, Shanxi Province
Financial Institutions	New Development Bank (NDB)
Status	Approved
Bank Risk Rating	B
Voting Date	2025-08-14
Borrower	Government of China
Sectors	Climate and Environment, Energy, Infrastructure, Transport
Investment Type(s)	Loan
Investment Amount (USD)	\$ 202.01 million
Loan Amount (USD)	\$ 202.01 million
Project Cost (USD)	\$ 259.49 million



Project Description

According to the NDB, the Project comprises four components:

- Component 1: Decarbonizing Energy Supply, to encompass solar photovoltaic power generation and green heating and cooling;
- Component 2: Introducing Energy Storage, for both electricity and heat supported by advanced technologies;
- Component 3: Managing Energy Systems Intelligently, to enhance an intelligent energy and carbon management platform that improves energy efficiency; and
- Component 4: Filling Knowledge and Capacity Gaps, primarily in sustainable energy management.

The Project aims to reduce Taiyuan Wusu International Airport's annual net CO₂ emissions to zero by shifting to renewable power sources such as solar and geothermal energy and improving its energy efficiency. The Project is expected to generate valuable practical experiences that can guide other airports in their pursuit of low-carbon transition.

The People's Government of Shanxi Province will be responsible for overall planning, execution and supervision of the Project. Shanxi Aviation Industry New Energy Company (SAINE), a joint venture established by Shanxi Aviation Industry Group (SAIG) and two government-owned enterprises specializing in geological engineering and industrial construction, will be responsible for daily implementation of the Project. SAIG, which manages eight airports across Shanxi including TWIA, will assume the role of coordinating project planning, construction and financing. The implementation period for the Project is from 2025 to 2029.



Early Warning System Project Analysis

As stated by the NDB, the Project has been classified as Category B in accordance with the NDB Environment and Social Framework. Key E&S risks include potential groundwater and soil contamination from drilling and installation of geothermal wells, impacts related to PV panels such as increased bird attraction and reflected light, hazardous waste from decommissioning PV panels and batteries, noise and electromagnetic interference and general construction-related impacts.



Investment Description

- New Development Bank (NDB)



Private Actors Description

As stated by DevelopmentAid, Shanxi Aviation Industry New Energy Co., Ltd. was established on April 7, 2024 with a registered capital of 450 million yuan. It is a wholly-owned subsidiary of Shanxi Aviation Industry Group Co., Ltd. Shanxi Aviation Industry Group Co., Ltd. holds 51% of the shares, Shanxi Geological Group Co., Ltd. holds 34% of the shares, and Shanxi Installation Group Co., Ltd. holds 15% of the shares. It is mainly responsible for the construction and subsequent operation management of the "Taiyuan Wusu Zero Carbon Airport Project".

The company's business scope includes: power generation, transmission, power supply (distribution), construction engineering, mineral resource exploration, and tap water production and supply.

According to the Business and Human Rights Resource Centre, Shaanxi Aircraft Corporation is a Chinese aircraft manufacturer and supplier to the Chinese military based in Hanzhong, Shaanxi province. It is a subsidiary of the Aviation Industry Corporation of China (AVIC).



Private Actor 1	Private Actor 1 Role	Private Actor 1 Sector	Relation	Private Actor 2	Private Actor 2 Role	Private Actor 2 Sector
Shaanxi Aircraft Corporation	Parent Company	Industry and Trade	owns	Shanxi Aviation Industry New Energy Company (SAINE)	Contractor	Energy



Contact Information

NDB Team Leader:

He Tian - Public Sector Department

Borrower - Ministry of Finance:

Bo Zhang

Email: zjc@mof.gov.cn

Implementing Agencies -

The People's Government of Shanxi Province:

Yingming Di

Email: 13903519647@139.com

Shanxi Aviation Industry Group:

Yang Chen

Email: sxhkcyj@163.com

Shanxi Aviation Industry New Energy Company:

Zhigang Wen

Email: 3659719503@qq.com

ACCESS TO INFORMATION

You can submit an information request for project information through a form at the bottom of the following webpage <https://www.ndb.int/about-us/contact-us/>. Alternatively, you can send an e-mail to info@ndb.int.

ACCOUNTABILITY MECHANISM OF NEW DEVELOPMENT BANK

The New Development Bank (NDB) does not currently have an independent accountability mechanism to accept complaints related to NDB-financed projects. The Bank does have a whistleblower mechanism that receives complaints about misconduct related to corruption, fraudulent practices and instances of money laundering in projects financed by the NDB and/or against the NDB staff members. To learn more about the whistleblower mechanism and how to file a complaint, access this webpage at: <https://www.ndb.int/about-us/whistleblowing/>.



Bank Documents

- [Project summary](#)

Media

- [Chinese group to build \\$1.5bn green aviation fuel plant based on wind-powered hydrogen](#)