



Sulige natural gas power, China

Natural gas plays an important role in the transition to a more sustainable energy supply. With only half the amount of CO₂ emissions compared to coal-fired power generation, it is the energy of choice for emerging economies with an eye on the climate.

Location



The project is sited in Dabuchake in Northern China's Inner Mongolia Autonomous Region. It is using natural gas from domestic sources, from the resources-rich Ordos basin.

Project



The project is a peak regulation power plant including the installation of two sets of 175 MW air-cooling gas steam combined cycle power generation equipment which use natural gas to generate electricity. The project's massive carbon emission reductions are being achieved by replacing emission-rich coal-based electricity from the grid with state-of-the-art combined-cycle power generation from relatively low-carbon natural gas.

The project satisfies the national energy policy that requires adjustment and optimisation of the national energy mix to reduce carbon emissions and enhance energy security.



The project owner is supporting the local population, too. Among other activities, an efficient cooking stoves program has been set up to mitigate indoor pollution in family homes and save household emission. In addition, local schools received financial support to strengthen the educational situation for the young generation.

Project achievements



Socio-economic impact:

- The project provides funding for local schools.
- An efficient cooking stove project for local areas has been initiated.
- About 100 employment opportunities during the construction and operation of the project have been generated.

Environmental impact:

- Better air quality due to less open fires from burning the biomass on the fields.
- In China, more than 80% of total electricity is generated from coal-based power plants. Being so heavily dependent on coal for energy demand, this project brings environmental benefits to the country's air, soil and water sources.
- The project is contributing to the promotion of advanced technologies in the country's energy sector.
- The project brought significant improvement to better air quality in China. Emissions of NO_x, SO₂, suspending particles and ash have been lowered significantly.

Checklist Project 301 134



✓ Additionality and permanence:	according to the rules of the VCS
✓ 3 rd party verified:	TÜV Süd
✓ Transparency:	provided by the APX Registry
✓ Annual CO ₂ reduction:	500,000 tCO ₂ e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	pictures available

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