



# Yingxin Glassworks Waste Heat to Energy China

**Innovative technology to convert waste heat into power**



*Producing glass is an energy intensive process. The Yingxin Glassworks Factory is implementing measures to make it more environmentally friendly by installing state-of-the-art technology. The company is using a system to capture waste heat and channel it back into further glass production as electricity, significantly reducing their need for fossil-fuel derived power in their operations.*

### The Context

China is experiencing increasing pressure to reconcile economic development with environmental safeguards. A growing number of emission reduction measures are being implemented to steer core industries towards a more sustainable future.

### The Project

This project saw the installation of an innovative waste-heat-capture method at the Yingxin Glassworks Factory. Four boilers convert waste heat into energy, which drives two 6MW turbines to generate electricity that can then be used for glass production elsewhere in the facility. By recovering and using waste heat from the glass smelting furnaces, electricity is generated without needing more fuel, reducing the demand for fossil-fuel power.

### The Benefits

In total, 76,000 MWh of electricity is produced each year, which equates to 67,000 tonnes of CO<sub>2</sub> emissions avoided annually. The electricity generated by this project meets approximately 55% of the facility's electricity demand for glass production. In addition to the environmental benefits, the project owner has provided scholarships to children and supporting schools, as well as elderly people and the local infrastructure. Local people are also permitted to borrow machinery and tools at no cost.

The electricity generated from the project meets around 55% of the electricity used for glass production, significantly reducing the need for fossil-fuel derived power



## Gold Standard



### Training and capacity building

for all 24 employees regarding safety, operation, fire protection and monitoring



**76,000 MWh**

of renewable electricity generated annually



**24 permanent jobs**

for local people promoting local economic development



### Safe production

is prioritised and enforced, meeting all targets on safety, noise, dust, water quality and waste disposal



**67,000 tCO<sub>2</sub>e**

avoided emissions annually on average

For more information on the UN Sustainable Development Goals, please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

**Official name:** Hebei Yingxin Glass Group Co. Ltd. Glass Furnace Flue Gas Waste Heat To Energy Project |

**Registry link:** <https://registry.goldstandard.org/projects/details/1175> | **Registry ID:** GS 750

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