



## Generating genius

The team at Harbin Electric

Harbin Electric cut design time for the Waste Heat Boiler by 25%.

The team uses the Autodesk® Product Design Suite with Autodesk® Vault, part of the Autodesk® solution for Digital Prototyping.







### Meet our powerhouse

**It's Li-Jie Miao, vice president of Harbin Electric.**

Li-Jie improved the way the company works with its partners and suppliers. He uses Autodesk Product Design Suite, part of the Autodesk solution for Digital Prototyping.

*"Harbin Electric is one of the largest manufacturers of power-generation equipment in China. We've supplied over 300 million kilowatts of power to the world from sources including coal, gas, hydro, nuclear and wind.*

*We implemented an enterprise-resource system to help us manufacture smarter, greener energy equipment. So, when we came to look for a Digital Prototyping solution, it had to integrate with that system. The Autodesk solution for Digital Prototyping is an open system that works smoothly with our other software. It also enables our teams to work wherever they are because they can connect to it from their PCs, tablets and smartphones.*

*Integrated workflows are vital for a group like ours, which produces complete sets of equipment. The Autodesk solution for Digital Prototyping connects us to our upstream and downstream partners and supporting services, which helps us create innovative products faster."*



### Meet our pressure container

**It's Jia-Qi Wang, designer at Harbin Boiler Factory.**

Jia-Qi helped streamline the design process for the Waste Heat Boiler. He uses Autodesk Product Design Suite, part of the Autodesk solution for Digital Prototyping.

*"In the past, we used 2D CAD models. This wasn't ideal for collaboration. They're often not detailed enough to help designers further on in the process. This can lead to errors. With Inventor, you can plan the whole design from top to bottom and reduce the potential for errors."*



### Meet our efficient heater

**It's Wen-Xiu Bi, designer at Harbin Electric.**

Wen-Xiu saved a week's design time by reusing parts for the Waste Heat Boiler. He uses Autodesk Inventor, part of Autodesk Product Design Suite and the Autodesk solution for Digital Prototyping.

*"Now that we're using Inventor, we save weeks of remodelling or redesigning, which makes us much more efficient. Equipment manufacturers often use the same, or similar, parts. I can change the size of these in Inventor to make them fit, which saves me a lot of time."*



### Meet our source of energy

**It's Er-Kai Liang, assistant to design and development director of Harbin Boiler Factory.**

Er-Kai cut design time for the Waste Heat Boiler by 25%. He uses Autodesk® Inventor, part of Autodesk Product Design Suite and the Autodesk solution for Digital Prototyping.



*"We sold our Waste Heat Boiler to Mitsubishi Heavy Industries. With the Autodesk solution for Digital Prototyping, we cut design time on the project by 25%. We impressed Mitsubishi with our efficiency and the detail of our 3D designs.*

*Autodesk Inventor helps us see whether any part of an environment will interfere with the way our product works. Furthermore, Autodesk Showcase helps our marketing team demonstrate just what we can do, and our sales team win new business. And Autodesk Vault allows us to manage design and engineering information quickly."*