

## **Beijing's focus on coal lost in haze of smog**

### **The development of the Concentrate Heating Project – Beijing's Four Main Thermal-Electric Heating Center Projects**

By: Cindy Jun Du, Beijing CQV Trading Co. Ltd, 2015.3.14

Alongside the fast economic development of the past 30 years, China is facing the tremendous pain of air pollution. Even in Beijing, the capital, there is nowhere to escape from the harm of air pollution, heavy with pm 2.5 fine particulates.

The soaring, grimy chimneys of the coal-fired power stations have belched the last of their choking fumes into Beijing's atmosphere.

One of the major moves in confronting and alleviating the damaging effects of pollution is the establishment of the gas-burning Four Giant Heating Center-Thermal Power Plants, which have been supplying heat to the capital since 2013.

For this huge project, four big DN1400 pipelines and other branched pipelines have been under construction since 2013. They will be completed in 2016 to connect the new gas-burning Thermal Power plants to the existing pipelines downtown. The old coal-burning power plants will then be shut down.

Beijing CQV Trading Co., as the sole agent of VEXVE Product in China, has been promoting and marketing VEXVE products since 1994, and has gained a strong reputation as trusted supplier of VEXVE-manufactured heating valves. CQV was rewarded by being chosen as the supplier of hundreds of VEXVE Metal seated butterfly valves for the abovementioned project.

The 50-year-old Gaojing facility was one of four enormous generating plants that the authorities promised to close after the city was repeatedly ravaged by acid haze.

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The Northwest thermoelectric power plant center Takai gas plant, Beijing's largest thermoelectric generating heat center (photo), will be supplying heat to 400,000 inhabitants this winter.

The construction of the Northwest Center supporting projects encountered various challenges, of which sending heat through the Siping Mountain especially required attention. The starting point for the project is the Jingxi Power Plant Takai and, after going through Siping mountain, finishes at Fushi with the mountain segment amounting to nearly 1.8 kilometers. The project uses a directional blasting mechanism and heat, a major innovation in pipeline construction.

VEXVE DN1400 electric actuator tri-eccentric metal seated butterfly valves are used in the main line, as well as branches in the whole project. After construction, the Northwest thermoelectric generating capacity will be 2.7 million kilowatts, accounting for one eighth of the total electricity consumption in Beijing; heating capacity for the western region of Beijing will provide heat to 400,000 users and residents.

There are three similar projects occurring in three other corners of Beijing- the Southwest, Northeast, and Southeast Thermal-Electric Heating centers.

In 2016, after the four thermoelectric centers are completed and original coal-fired power plants in Beijing are shut down, coal usage will be cut by 9.2 million tons. Directly affecting PM2.5 pollution, they will make a significant contribution to improving air quality in Beijing. VEXVE is proud to be a part of these projects, as the key valve supplier for the heating lines.

In fact, this type of project is not only being implemented in Beijing. In 2012 and 2013, VEXVE supplied products to a 22km DN1200 line and three pumping stations in the city of Tianjin.

Based on experience in Beijing, Tianjin and Hebei Provinces are now expanding and jointly planning area projects. Jing-Jin-Ji is another area where the planning of a huge heating project is underway along with the Central Government which regards it as a major economic area.

CQV, supported by VEXVE is working hard to supply the best products to these projects.



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