

ENERGY STAR Challenge for Industry Award Recipient



Jinqiao South Assembly Plant
General Motors Company
1500 Shenjiang Rd., Jinqiao, Pudong
Shanghai, China

The Jinqiao South Assembly Plant of Shanghai General Motors Co., Ltd. began operation in May 2005. The state-of-the-art facility covers an area of about 246,000 square meters. It includes a body shop, paint shop, and general assembly shop. The plant produces passenger vehicles under the Buick brand for the Chinese market.

The plant achieved the ENERGY STAR Challenge for Industry in 2011 and then again in 2013 with energy intensity reductions in the amount of 12.6% and 13%, respectively. The plant's energy-saving and environmental-protection initiatives are the direct responsibility of senior executives at each level. Their focus is on innovation. Engineers and technicians are encouraged to continuously innovate, while all employees are invited to make contributions. The refined statistics collection and the analysis and tracking of energy reports are carried out continuously.

The plant has adopted a range of energy-saving measures and implemented an array of projects. Capacity utilization has been maximized. In addition, major energy-consuming units such as the paint shop have introduced award-winning concepts and technologies to reduce energy consumption. They include improving the efficiency of the dryer combustion system, optimizing the summer cold/hot water control program in the spray chamber ASU, and optimizing the process for chilled water during winter.

The annual capacity of the paint shop is 290,000 units, which is more than double its designed capacity of 140,000 units. However, its energy consumption in terms of TCE (tons of coal equivalent) has been nearly cut in half from 0.169 ton in 2006 to 0.088 ton in 2012.

Overall, energy use per unit in the plant in terms of TCE has been reduced 4.2% to 0.117 ton over the past 12 months, compared to 0.122 ton in 2012.

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