

# Aptiv going green with new power-generation project

Li Huangcheng and Tom Qian

THE first phase of the photovoltaic power generation facilities construction project for Aptiv, a global technology leader, has been completed and connected to the state grid.

A total of 33,000 square meters of embedded photovoltaic power generation equipment and 5,940 solar panels are being installed on the roofs of Aptiv's factories, which is as large as four soccer fields.

Aptiv is implementing a

self-generated and self-used surplus electricity connected to the grid approach to maximize power generation areas on factory roofs and building a 3.2-megawatt distributed photovoltaic power generation system.

The photovoltaic power generation system uses the photovoltaic effect of solar cells to convert solar energy into direct current, transform into alternating current through inverter and integrate into the national grid.

The company's current utilization rate of photovoltaic

power generation is 10 percent of its overall electricity consumption.

The facility is projected to provide nearly 3 million kilowatt-hours of electricity every year, saving about 2.42 million yuan (US\$372,308) in electricity costs and reducing carbon emissions by 2,400 tons.

"On the one hand, adopting a photovoltaic power generation system will help us save on production costs. On the other, it will help us build a low-carbon park and achieve green and high-quality development,"

said Shen Guoliang, general manager of Aptiv Connector China. "We will kick off the second phase of the project, covering 20,000 square meters, which is expected to save about 1.6 million yuan in electricity costs after it's up and running in the third quarter."

According to Jiading Power Supply Company, more than 1,400 households use grid integration of photovoltaic power generation in Jiading, with a capacity of 160,000 kilowatts. Almost 250 companies are also connected to the grid.

## 50 new projects to boost tax revenue

Li Pin and Tom Qian

JIADING DISTRICT has set targets to increase tax revenue by around 30 percent, introduce more than 50 projects, each with investment of above 100 million yuan (US\$15.38 million), and attract at least 10 headquarters into the district in 2022.

This year, about 30 key projects will be implemented in the North Hongqiao Business District.

The construction of the global headquarters of Huazhu Hotels Group is expected to be completed in May and start operating in June.

With an investment of nearly 1 billion yuan, the headquarters will become a base for office, research and innovation base for the Internet industry, financial settlement center and hotel.

Located in the business district, it is estimated to generate 300 million yuan in tax for Jiading in the coming three years.

As the business district covers the entire Jiangqiao Town with an area of 42 square kilometers, it will become a driver of building the north expansion zone of Hongqiao International Open Hub.

NIO's international business headquarters is also located in Jiangqiao, with nearly 100 mu (6.7 hectares) of research and development land planned.

## Exhibition's LED screens wow visitors

Yu Junli and Tom Qian

FOUR large LED screens in the entrance area of Shanghai Urban Planning Exhibition Hall in People's Square, each measuring 12 meters long and 3.3 meters high, have impressed visitors with their ability to rotate 360 degrees and move up and down.

The four screens, which weigh nearly 13 tons, were made by Jiading-based Leyard Linso LED.

"The Shanghai Urban Planning Exhibition Hall is a new landmark that demonstrates Shanghai's urban soft power. We are very excited to participate in it, but at the same time we are under a lot of pressure and have to overcome many technical difficulties," said Luo Fei, a Leyard Linso project manager.

In order to ensure the heavy screens stay in place, each screen is fitted with shatter-resistant facilities, Luo added.



One of the LED screens



### Brand-new flavors for Qingming

A chef makes *qingtuan* (green glutinous rice dumplings) in Malu Town as Qingming Festival, or tomb-sweeping day, which falls on April 5 this year, is approaching. Along with traditional flavors such as salted egg yolk and dried meat floss, two new varieties, chestnut and taro, are popular this year.  
— Li Pin

## High-speed rail for Winter Olympics

Huang Liu, Yu Junli and Tom Qian

ENTERPRISES have shown strong smart manufacturing capabilities in key projects across China, and the Beijing-Zhangjiakou High-speed Railway is one of them.

The high-speed railway, an important transport project for the Beijing 2022 Olympic Winter Games, connects the capital with Yanqing and Zhangjiakou where competitions were held.

The BeiDou Navigation Satellite System developed by Jiading-based ComNav Technology Ltd was adopted

by the high-speed railway network.

"This special train can shorten the running time from Zhangjiakou to Beijing from 3 hours to 50 minutes, thanks to the precise BeiDou Satellite Navigation System," Zhao Yongmao, the project leader, said.

"Even under complex geological conditions such as severe cold and sandstorms, passengers can still feel the fast speed and have a comfortable journey, all well received by athletes from around the world."

The rail system is based on BeiDou satellite and geographic information

system technology which can facilitate unmanned driving, including automatic departure at the station, operation in the interval and parking at the station. It can also provide intelligent services for operation, scheduling, maintenance, and emergency response.

Construction of the high-speed rail foundation enhancement and monitoring system provided by ComNav Technology Ltd can realize high-precision monitoring of high-speed rail infrastructure such as roadbeds and slopes and ensure the safety of the high-speed railway.