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AN UNUSUAL YEAR FOR CHINA'S LIGHTING INDUSTRY

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2020 has been an unusual year for the Chinese lighting industry, due mainly to the Covid-19 pandemic.

In early 2020, lighting companies extended a helping hand to Hubei's hardest-hit areas to build hospitals such as Huoshenshan and Leishenshan.

They donated ultraviolet germicidal lamps, ultraviolet sterilizers, masks, street lamps, etc., reflecting the spirit of mutual assistance.

In mid-2020, Signify announced that its joint research with Boston University's National Laboratory for Emerging Infectious Diseases (NEIDL) had confirmed that Signify's UV-C ultraviolet light source could effectively inactivate the 2019 coronavirus disease (COVID-19), the new coronavirus SARS-CoV-2. Other companies like Seoul Viosys (Seoul Viosys) and Sensor Electronic Technology, Inc. (SETi) announced that they had successfully adopted Violeds (UV-C LED) technology to kill 99.9% of new coronaviruses within 30 seconds.

A joint study by Kobe University in Japan and Ushio, a Japanese LED component manufacturer, showed that deep ultraviolet radiation with a wavelength of 222nm can kill bacteria and is harmless to human skin and eyes. Similarly, Columbia University in



Courtesy photo by daydaynews

the United States carried out related research. Preliminary results show that far UVC with a wavelength of 222nm cannot penetrate the skin surface or eyes and is safe for the human body. Researchers at Hiroshima University in Japan also proved that far ultraviolet (Far-UVC) with a wavelength of 222nm is also effective against SARS-CoV.

LED COMPANIES INVEST IN 3RD GEN SEMICONDUCTORS

Sanan Optoelectronics invested 16 billion to establish a subsidiary aimed at the construction of third-generation semiconductor. Hcsemiteck planned to raise 1.5 billion yuan to invest in the construction of Mini/Micro LED and MLS set up a deep ultraviolet project company for 666 million yuan to

deepen the deep ultraviolet field layout.

The Ministry of Housing and Urban-Rural Development issued the Notice on Printing and Distributing the Reform Plan for the Qualification Management System of Construction Engineering Enterprises in December 2020, streamline enterprise qualification categories, merge grade settings, simplify qualification standards, optimize approval methods, and further relax restrictions on construction market access. Among them, the special qualification for lighting engineering design was adjusted to general professional qualification for lighting engineering, with two levels A and B. There are 144 companies in China engaged in lighting engineering business and also have lighting Double A certification.

THE RISE OF ONLINE LEARNING, E-COMMERCE AND LIVE STREAMING

Due to the pandemic of Covid-19, most exhibitions, conferences and events in the lighting industry in 2020 were cancelled, postponed or held online. As an education and training platform for the lighting industry, in order to promptly disseminate and train new lighting concepts, new standards, and new technologies during

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the epidemic, China Light.com Classroom took the lead in launching a series of online activities and continued to carry out a total of 216 online salons, forums, and courses, with total 308,700 views.

In addition, LED lighting companies such as NVC, Opplle, MLS, PAK, Yankon Lighting, FSL Lighting and other LED lighting companies are testing the live broadcast of goods and actually live broadcast has become the standard configuration for large and small businesses on e-commerce platforms. Actions, such as NVC Lighting's CEO's self-help array, the popularity of Wei Ya's live broadcast, Xinterli's simultaneous appearance on CCTV News, Hunan Satellite TV, and popular anchors during Double 11, can be said to be the trend of online trade after the outbreak of the pandemic and for many company E-commerce took almost 5% of their distribution.

THE SMART LIGHT POLE MARKET BOOMING UP

Driven by the smart cities, new infrastructure and 5G technology, the construction of intelligent smart street lights in China accelerated in 2020. So far, the largest 5G smart street light construction project in China appeared in Wuhan.

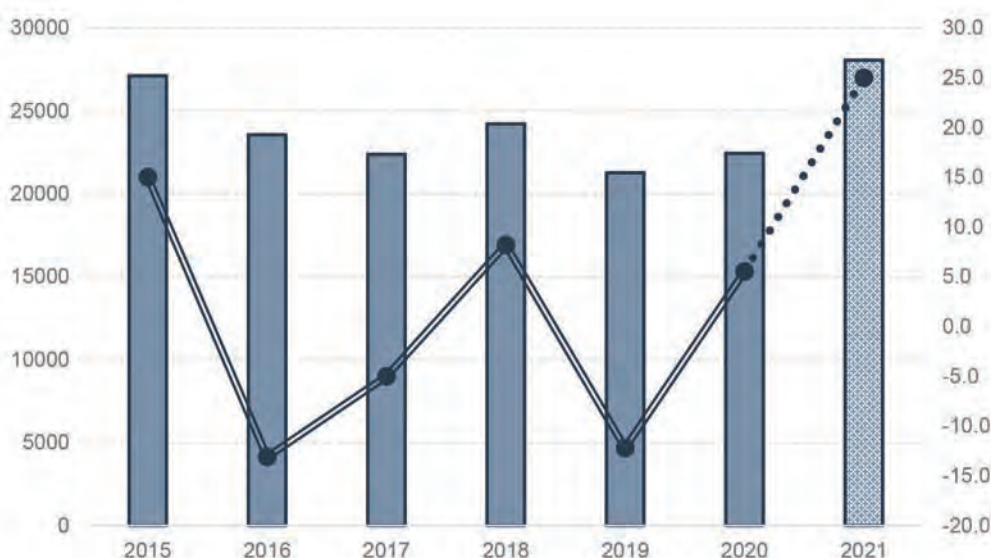
In mid-November 2020, the first professional 5G smart street light company in China that integrates construction, operation and management - Wuhan Optics Valley Central City Guoxinqiang Smart Street Light Construction and Operation Management Co., Ltd. - has built three types of 5G smart street lights. The 5G smart street light demonstration project undertaken by the Optics Valley Central City will install about 5,500 sets of smart street lights in the central city area of Wuhan East Lake New Technology Development Zone and the entire section of Gaoxin Avenue.

After years of research and development, research and upgrading, the Optics Valley Central City Smart Street Light Company obtained over 30 national patents in the field of domestic smart street lights, and took the lead in issuing smart street light system engineering construction, operation and management measures in Wuhan.

The Optics Valley Central City Smart Street Light Company plans to build smart street lights on the roads in various districts of Optics Valley, covering a total length of more than 30 kilometers. It is reported that could be the largest 5G smart street light project in China.

Huati Technology 5G Smart Street Lamp R&D base is settled in Bengbu. On August 3, 2020, the official WeChat account of Huati Technology announced that its 5G multi-pole integrated smart street lamp R&D and production base project was officially signed in Bengbu City, Anhui Province. This is a substantial breakthrough achieved by Huati Technology's 5G smart street light project, which has officially stepped out of Sichuan and deployed large-scale markets outside Sichuan. According to the investment agreement, Guoxin Huayang, Bengbu City Investment, and China Sports Technology will jointly establish a 5G multi-pole integrated smart street lamp R&D and production base in Bengbu High-tech Zone. Huati Technology mainly uses industrial capabilities, and Guoxin Huayang mainly uses capital the formation of a new model of smart street lamp development that integrates industry plus capital, and promotes the construction of new smart cities. In late November, **the 2020 Shanghai 5G Smart Street Light Pole Exhibition** hosted by the Shanghai Municipal Housing and Urban-Rural Construction Management Committee and undertaken by the Shanghai Green Building Association, was officially launched in Shanghai.

EVOLUTION OF CHINESE EXPORTS. ESTIMATES 2015-2020, FORECAST 2021 (MILLION USD, ANNUAL % CHANGE)



Source: CSIL