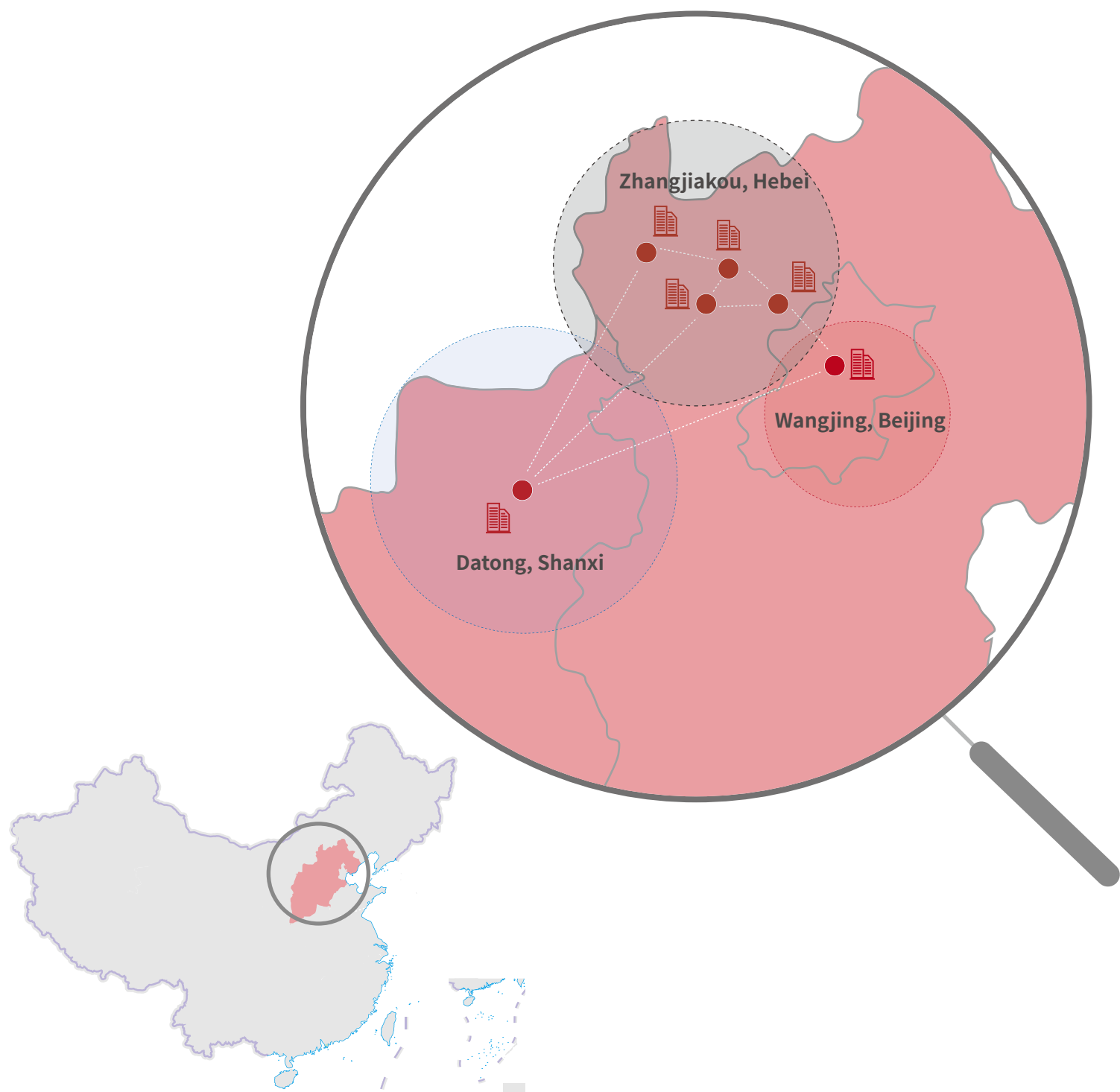


# NEXT-GENERATION HYPERSCALE DATA CENTERS CLUSTER IN THE PAN-BEIJING AREA



It is the product that constitutes the base of the business world as the world has advanced from the industrial era to the digital era. The ultimate pursuit of business is to serve the public and create inclusive value. A truly good product not only satisfies the needs of customers, but also provides social value at a deeper level.

As to new digital infrastructure, the next-generation hyperscale data center cluster built by Chindata Group in the pan-Beijing area is precisely the kind of product mentioned above.

The cluster started from Beijing, the home base for many digital leaders, and then expanded to Zhangjiakou and Datong, where energy and connectivity abound, creating a three-point data center network structure. By the end of 2019, a number of data centers had gone online, including the Wangjing Information Technology Industrial Campus, the Guanting Lake Big Data Industrial Campus of the Pan-Beijing Area, phase I of the Sangyuan Cloud Computing Industrial Campus of the Pan-Beijing Area, and phase I and phase II of the Taihang Mountain Energy and Information Technology Industrial Campus of the Pan-Beijing Area. In 2020, more next-generation hyperscale data centers will be operational.

The next-generation hyperscale data center cluster of the pan-Beijing area embodies the philosophy of "three-in-one" site selection and the "centralized, standardized and modular data center" proposed by the founder of Chindata Group, allowing for a full-stack solution that can achieve fast delivery, lower costs and higher scalability. These high-performance hyperscale data centers allow us to satisfy the scaling and elastic demands of leading technology companies throughout their business life cycles, serving the iterative development of big data, artificial intelligence, cloud computing, IoT and virtual reality.

## Selecting Datong for green development



In recent years, with the deepening of China's energy revolution, Datong, in North China's Shanxi province, which is the center of the country's traditional fossil-based energy industry, has been actively exploring renewable-energy use. Datong is abundant with renewable energy, such as wind energy, solar energy and hydrogen energy. In addition, as it is located in an area under the influence of the Beijing-Tianjin-Hebei Integration Plan, Datong can benefit from the economic impact of this renewable energy.

In 2018, after officially settling in Lingqiu, a county in north China's Shanxi province, Chindata Group planned, invested in, constructed and opened the Taihang Mountain Energy and Information Technology Industrial Campus in the Pan-

Beijing Area. Encompassing a gross floor area of 330,000 square meters, the project includes seven data center buildings and ancillary facilities, creating a platform for data collection, analysis and storage. Upon completion, it will be the largest data center campus in North China's Shanxi province and in central China, and will be devoted mainly to administering part of Beijing's non-capital functions. Phases I and II of the project were put into service in 2019 and realized utilization rate of 100% within a month. This project will be the first data center in China to achieve 100% sourcing renewable energy. The practices of the Chindata Group have played a leading role in the energy revolution taking place in the region.



## Put sustainability first to develop a green model for data center industry

By the end of 2019, the global mean temperature was 1.1°C higher than it was during the pre-industrial era and global sea level altitude hit a record high. Chindata Group continues to reflect on how to make continuous and high-quality changes in the high energy-consuming digital infrastructure industry to work with the greater sustainability and save our planet. The philosophy of green development runs through every step taken by Chindata Group in the development of full-stack hyperscale data center solutions.

When Chindata Group started to deploy the next-generation hyperscale data center cluster of the pan-Beijing area in Zhangjiakou, in North China's Hebei province, in 2017, the company was determined to make it the industry model. When selecting sites, the company employed its ingenuity and wisdom. Zhangjiakou and Datong feature cool weather and abundant renewable energy such as wind energy and solar energy, which can increase the renewable energy coverage of data centers. According to official data, the installed capacity of renewable energy in Zhangjiakou accounted for 70% of all its installed electricity capacity, with the potential to develop PV of 30 million kilowatts and wind power resources of 40 million kilowatts.

Meanwhile, in Zhangjiakou and Datong, Chindata Group completely consumed local surplus wind power and PV power. In the first half of 2019, the accumulated renewable energy coverage of the Guanting Lake Big Data Industrial Campus of the Pan-Beijing Area reached 56%. In January and April, renewable energy coverage reached 100%. The "renewable energy+data center" model sustains both the development of the data center and the environment.



## Cultivating regional economic development in light of comparative advantages

At the site-selection stage, Chindata Group has fully matched the nature of its data centers with the region's overall positioning. By doing so, the Group has been able to build low-carbon data centers, give full play to regional resources and cultivate the transformation dividend so as to boost the regional economy.

As to the sites selected for the next-generation hyperscale data centers cluster of the pan-Beijing area, Zhangjiakou is the only National Renewable Energy Demonstration Zone, as well as the Water Conservation Zone and Ecological Environmental Support Area for Beijing, while Datong is a pilot area for the energy revolution in China. As cities that thrive on traditional primary and secondary industries, both Zhangjiakou and Datong have strong internal needs to transform into digital economies. With their abundant renewable resources and close proximity to metropolitan areas, Zhangjiakou and Datong are the perfect locations to enable the company to initiate its strategy of alleviating non-capital core functions and realizing an energy revolution by developing data centers to support the digital economy.

Furthermore, with the launch of data centers in the next-generation hyperscale data center cluster of the pan-Beijing Area, related industries became aware of Zhangjiakou and chose to land there, thereby speeding up Zhangjiakou's plans to build a world-class hyperscale digital infrastructure cluster—the "China Digital Plateau," with a market size of over RMB 100 billion. In addition, it accelerated the industrial upgrading driven by

the energy revolution in Datong. Centralized next-generation hyperscale data centers can maximize the utilization of regional resources, achieve economies of scale and make it possible for regions to develop hyperscale renewable energy and networks in order to promote the development of an all-encompassing digital economy.

Chindata Group achieved excellent results both in Zhangjiakou and Datong. It is estimated that Chindata Group has produced several thousand jobs and driven local economic development. Consequently, the data centers in Zhangjiakou have been listed by MIIT (Ministry of Industry and Information Technology of China) as one of China's National Demonstration Centers for New Industrialization.

In the future, Chindata Group will insist on implementing a win-win strategy with all stakeholders jointly to ensure both industrial upgrading and environmental sustainability in the digital economy. Adhering to the belief that "lucid waters and lush mountains are invaluable assets," Chindata Group endeavors to create green development with its centralized, standardized and modular next-generation hyperscale data centers.