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[Shenzhen, China, January 28, 2021] As emerging technologies such as 5G, Internet of Things (IoT), cloud computing, and artificial intelligence (AI) are rapidly commercialized, the digital transformation in various industries is getting prospering. The epidemic and carbon neutrality goals further accelerate the transformation towards a smart society. What does it mean to the site power? What will happen if the energy technologies are combined with the power electronics technologies and digital technologies?

To answer these questions, Peng Jianhua, President of Huawei Site Power Facility Domain, together with industry guests, discussed the technology and industry trends and predicted the ten trends in the site power domain. The ten trends are released to provide clues of development directions and innovation for the industry and help build a better future.

The full power link from power generation, conversion, storage, to use will be digitalized. The entire energy network will change from the traditional watt flow to watt+bit collaboration, driving the digital transformation of site power from points, chains, and networks with the concept of Bit Manage Watt. The convergence of digital technologies and energy technologies will make energy networks visible, manageable, controllable, and optimizable.

To this end, Huawei explores a three-layer energy target network from the components, site, to network to help customers build a simple, intelligent, green, and reliable energy target network and meet the new energy development requirements in the future.

In Green Island, Greece, Huawei helps a carrier reduce carbon emissions by 10 tons per site per year by intelligent solar access. In Pakistan, Huawei uses advanced hybrid power supply to replace diesel generators, reducing carbon emissions by 18 tons per site per year.

Following the intelligent lithium battery, Huawei launched the fifth-generation CloudLi solution, which redefines the architecture of lithium batteries in the new era. The solution features full-scenario connection, simplified cloud maintenance, AI-based integrated energy storage, precise configuration, and proactive security management. This solution will sure bring more benefits to customers.

5G has entered different industries. As a result, a large number of digital sites are emerging. Varied scenarios require more flexible and diversified sites. Traditional sites with the single function of communication connection will evolve to social sites with comprehensive functions, maximizing the site value.

In Northern Africa, Huawei launched the innovative eMIMO solution, a unified energy platform that supports multiple input and output modes. This solution helps traditional site infrastructure with a single function transform to one with comprehensive energy services. Site power facilities also supply power to small-scale

retail stores and police stations in villages.

In Ethiopia, Huawei used the advanced solar energy, energy storage, and diesel generator hybrid solution to save 12.26 million liters of fuel for communications sites, saving US$20,000 in fuel costs and reducing carbon emissions by 26.2 tons. In Nigeria, distributed off-grid micro power plants were used to reduce the cost per kWh from US$0.5 to US$0.2. The power system provides stable power supply for the local area around the clock.

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