The Birth of Technology Behind the "Carbon Cloud"

The "Carbon Cloud", incubated by CITIC Carbon and CITIC Group's Venture Capital Incubation Fund, held an online discussion forum on March 20, 2020 about the technical aspect on the infrastructure of platform built. Participants shared the back scene on the setting and collection of data on "individual's carbon emission reduction by taking public transportation". The built of "Carbon Cloud" was announced as completed and firstly launched in the public transportation sector.

Being held by Pai Carbon Network Technology (Shanghai) Co., Ltd. ("Pai Carbon"), the forum was initiated by CITIC Carbon Asset Management Co., Ltd. ("CITIC Carbon") and co-organized by Shanghai Tongji Carbon Asset Consulting Service Co., Ltd ("TCC"). Nearly 30 participants joined the meeting from BWTON, Transitlink, BestPay and CITIC Group's Venture Capital Incubation Fund.

At the beginning of the forum, Weng Xinhuan, technical director of TCC, explained the definition and basis of "iVER" (individual voluntary carbon emission reduction) which is the core component under "Carbon Cloud". He demonstrated the application of such methodology to the scenarios of urban buses, bicycles, trains and other monitored and verifiable public transportation.

Yang Qifeng, deputy general manager of CITIC Carbon, introduced the corporate governance structure to ensure the transparency, consistency, reliability, and quality control of the data management in both processing as well as control, in and for "Carbon Cloud". He introduced the setup of independent process, committees and control procedures in various areas to ensure the said objectives.

Liu Kai, product manager of Pai Carbon, addressed the importance of data security and privacy issues on data and how "Carbon Cloud" tackles them in four perspectives: how "Carbon Cloud" connecting to different transport systems, the certification of iVER, security assurance and data management.

The forum received positive responses and invited active discussions.

"Carbon Cloud" equips with data security measures, including data authentication and protection, as well as security and data audits. "Carbon Cloud" works with different business partners to build an ecosystem which encourages and records individuals' low carbon behaviors and activities. It applies the latest information technologies and networking/cloud infrastructure to integrate seamlessly with the daily green activities of participating individuals. It aims to assist urban municipal administrators to manage high-quality environmental friendly public services sector in a new way efficiently. The pilot project of "Carbon Cloud" in Hainan has been running for four months with satisfactory results. Similar forums and formal press conferences will be launched soon in the pilot city. The same model will be replicated to other different cities across the country later this year.