

Press Release

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Chinese CCUS Treatment Capacities Grew by 125 Fold in the Past Decade

SHANGHAI, CHINA – April 30, 2019 – The Chinese CCUS (carbon capture, utilization, and storage) treatment capacities grew rapidly in the past decade. The accumulated CO₂ treatment capacities in China were estimated to grow from merely 22,600 tons per year in 2007 to over 3.5 million tons per year in 2018, at a CAGR 58.3%, according to a new report, named “CO₂ Management And Utilization Technology Landscape in China 2019” published by Innova Research, a Shanghai-based market research and consulting firm focusing on emerging technologies.

The report exams the Chinese CO₂ management and utilization value chain, including CO₂ separation and concentration, CO₂ conversion and utilization, and downstream applications, and identifies the pilot and commercial CCUS projects in China. These projects and their CO₂ treatment capacities are further split by region, by project status (running, pending, closed, launching), and by downstream applications, namely, agrochemical, building material, fuel and chemical, healthcare supplemental, polymer and bioplastics, enhance oil recovery, and others, respectively. Moreover, relevant Chinese regulations are also discussed in the report.

Among the key findings:

- East China takes the largest CO₂ treatment project capacity share by the end of April 2019. In this region, a lot of efforts have been put at the commercialization of CO₂ conversion and upgrading technologies, focusing on value-added applications such as bioplastics, fine chemicals, and building materials, among others
- In CO₂ capture and separation technology field, chemical absorption takes the largest share in the CO₂ treatment projects (by project counts). It is followed by algal collection and membrane technologies for CO₂ capture and separation. Physical absorption and adsorption are also used by some commercial projects but take smaller shares
- The largest portion of the CO₂ utilization projects are targeting at polymer & bioplastics and enhanced oil recovery applications, while the industrial interests in polymer & bioplastics applications are focusing on CO₂-based polycarbonate and other polymer, such as PPC and PU

Nancy Wu, Research Director at Innova Research, commented: “China is one of the largest carbon dioxide emission countries in the world. CO₂ management and utilization has become a hot topic in China due to the Chinese regulations on carbon tax, which is expected to be introduced in the near future; the growing market demands from industrial players with high CO₂ emissions, such as steel companies, cement and concrete makers, among others; and the progresses on CO₂ utilization technologies towards high value-added products. The rapid growth of the relevant market and technology demands will be accelerated, offering great business opportunities to the relevant technology developers around the world.”

About Innova Research

Innova Research is a market research and consulting firm focusing on emerging technologies, including advanced materials, renewable energy and environmental technologies, advanced electronics, industry internet and robotics, energy storage, among others. The company also provides technology scouting and deal sourcing services to corporate VCs, VCs, and corporate R&D clients. Driven by primary research, Innova Research's market intelligence reports, technology scouting and consulting services help our clients to make right strategic and investment decisions in the fast-changing technology world. Visit www.innovaresearchinc.com for more information.