THE BIG PICTURE: Momentum for CCS

(August 2022)

EUROPE AND AUSTRALIA

OSAKI COOLGEN
(Demonstration)
Japan, 2020
Capture target: 150,000 tpa from oxygen-blown IGCC.

NUCLEAR COOLCHAIN
(Demonstration)
US, 2020
Capture target: 1.2 Mtpa from new build 1-GW Unit 2.

AMERICA

CAROLINE CARBON CAPTURE POWER
Complex—Pieridae Energy
Alberta, Canada, mid-2020s
Capture target: 1 million tonnes (or 200 MW of “blue power”).

GUOHUA JINJIE CCS FULL CHAIN—Shenhua Group
(Demonstration)
China, 2021
Capture target: 0.14 Mtpa.

CALEDONIA CLEAN ENERGY
(Commercial)
Scotland, 2024
Capture target: 3 Mtpa.

CLEAN ENERGY SYSTEMS
CARBON NEGATIVE ENERGY
Plant
(Commercial)
California, 2025
Capture target: 0.12 Mtpa from biomass gasification.

DRAKE BECCS
(Commercial)
UK (Humber Cluster), 2027
Capture target: 4.3 Mtpa from one 660-MW biomass unit.

EUROPE

HUANGHONG DONGFANG ENERGY
BASE CCS—China Huaneng Group
(Commercial)
China, 2023
Capture target: 1.5 Mtpa post-combustion capture from new build 1-GW Unit 2.

GUODIAN TAIZHOU POWER STATION
Carbon Capture—China Energy
Investment Group
(Commercial)
China, 2023
Capture target: 0.5 Mtpa.

ADORIC BLUE
(Commercial)
Italy, ENI, 2026.

EUROPE

HUAOGEN LONGBANG ENERGY
BASE CCS—China Huaneng Group
(Commercial)
China, 2023
Capture target: 1.5 Mtpa post-combustion capture from new build 1-GW Unit 2.

SINOPEC SHENGLI POWER PLANT
CCS—Sinopec
(Commercial)
China, 2020s
Capture target: 1 Mtpa from newly built thermal unit at Shengli power plant.

SINOPEC CHINA
(Commercial)
China, 2020s
Capture target: 2 Mtpa from IGCC plant equipped with CCS.

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