

CCS

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Carbon capture and storage

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Carbon capture and storage (CCS) is a process by which carbon dioxide (CO₂) from industrial installations is separated before it is released into the atmosphere, then transported to a long-term storage location. The CO₂ is captured from a large point source, such as a natural gas processing plant and is typically stored in a deep geological formation. Around 80% of the CO₂ captured annually is used for enhanced oil recovery (EOR), a process by which CO₂ is injected into partially depleted oil reservoirs in order to extract more oil and then is largely left underground. Since EOR utilizes the CO₂ in addition to storing it, CCS is also known as carbon capture, utilization, and storage (CCUS).

Oil and gas companies first used the processes involved in CCS in the mid-20th century. Early CCS technologies were mainly used to purify natural gas and increase oil production. Beginning in the 1980s and accelerating in the 2000s, CCS was discussed as a strategy to reduce greenhouse gas emissions. Around 70% of announced CCS projects have not materialized, with a failure rate above 98% in the electricity sector. As of 2024 CCS was in operation at 44 plants worldwide, collectively capturing about one-thousandth of global carbon dioxide emissions. 90% of CCS operations involve the oil and gas industry. Plants with CCS require more energy to operate, thus they typically burn additional fossil fuels and increase the pollution caused by extracting and transporting fuel.

CCS could have a critical but limited role in reducing greenhouse gas emissions. However, other emission-reduction options such as solar and wind energy, electrification, and public transit are less expensive than CCS and are much more effective at reducing air pollution. Given its cost and limitations, CCS is envisioned to be most useful in specific niches. These niches include heavy industry and plant retrofits. In the context of deep and sustained cuts in natural gas consumption, CCS can reduce emissions from natural gas processing. In electricity generation and hydrogen production, CCS is envisioned to complement a broader shift to renewable energy. CCS is a component of bioenergy with carbon capture and storage, which can under some conditions remove carbon from the atmosphere.

The effectiveness of CCS in reducing carbon emissions depends on the plant's capture efficiency, the additional energy used for CCS itself, leakage, and business and technical issues that can keep facilities from operating as designed. Some large CCS implementations have sequestered far less CO₂ than originally expected. Controversy remains over whether using captured CO₂ to extract more oil ultimately benefits the climate. Many environmental groups regard CCS as an unproven, expensive technology that perpetuates fossil fuel dependence. They believe other ways to reduce emissions are more effective and that CCS is a distraction.

Some international climate agreements refer to the concept of fossil fuel abatement, which is not defined in these agreements but is generally understood to mean use of CCS. Almost all CCS projects operating today have benefited from government financial support. Countries with programs to support or mandate CCS

technologies include the US, Canada, Denmark, China, and the UK.

Combined Charging System

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The Combined Charging System (CCS) is a charging station standard for plug-in electric vehicles that uses the Combo 1 (CCS1) or Combo 2 (CCS2) connectors, which are extensions of the IEC 62196 Type 1 and Type 2 alternating current (AC) connectors, respectively, each with two additional direct current (DC) contacts to allow high-power fast charging. CCS chargers can provide power to electric vehicle batteries at up to 500 kW (max. 1000 V and 500 A), and in response to demands for even faster charging, 400 kW CCS chargers have been deployed by charging networks and 990 kW CCS chargers have been demonstrated.

Electric vehicles and electric vehicle supply equipment (EVSE) are considered CCS-capable if they support either AC or DC charging according to the CCS standards. Manufacturers that support CCS include BMW, Daimler, FCA, Jaguar, Groupe PSA, Honda, Hyundai, Kia, Mazda, MG, Nissan, Polestar, Renault, Rivian, Tesla, Mahindra, Tata Motors and Volkswagen Group, as well as Ford and General Motors for their 2024 North American EV models. Chinese automakers such as BYD, Chery and Zeekr also export CCS2 vehicles for their overseas markets.

The CCS standard allows AC charging using the Type 1 and Type 2 connector depending on the geographical region and the charging infrastructure available. This charging environment encompasses charging couplers, charging communication, charging stations, the electric vehicle and various functions for the charging process such as load balancing and charge authorization. Competing charging systems for high-power DC charging include CHAdeMO (widely used in Japan, previously used in North America and Europe), GB/T (China), and the North American Charging System developed by Tesla.

CCS (band)

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CCS, sometimes written as C.C.S., was a British musical group, led by blues guitarist Alexis Korner. The name was derived as an abbreviation of Collective Consciousness Society.

Formed in 1970 by musical director John Cameron and record producer Mickie Most, CCS consisted largely of session musicians, and was created primarily as a recording outfit. The personnel also included Peter Thorup, vocals; Alan Parker, guitar; Harold McNair, flute; Herbie Flowers, bass; Roger Coulam, keyboards; Barry Morgan, drums; plus Don Lusher and Bill Geldard, trombone. Some of the musicians were also members of Blue Mink.

CCS are best known for their instrumental version of Led Zeppelin's 1969 track "Whole Lotta Love", which entered the UK Singles Chart in 1970, and was used as the theme music for the BBC pop programme Top of the Pops ("TOTP") for most of the 1970s, and, in a remixed version, between 1998 and 2003. Technically, the TOTP theme was not by CCS, but was recorded by the TOTP orchestra one morning before the day's rehearsals. Nevertheless, the band was conducted by John Cameron on that occasion and many of the musicians were CCS regulars. This enabled the production to tailor the tune to the correct duration and avoided the weekly payment of royalties to the record label.

Their highest-charting singles were the Donovan song "Walking", and "Tap Turns on the Water". They also recorded three albums, including cover versions of the old blues standard "Boom Boom", "Living in the Past", and "(I Can't Get No) Satisfaction" as well as original material.

Their single, "Brother", was used as the theme to Tom Browne's and Simon Bates' Sunday Top 40/20 Chart Rundown on BBC Radio 1 in the 1970s. The band were also responsible for the first set of jingles for Manchester's Piccadilly Radio when the station launched in April 1974. The short-lived CCS broke up in 1973, while Alexis Korner moved on to form the group Snape.

C.C.S. 2

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C.C.S. was the second studio album of the British blues and jazz outfit CCS, led by guitarist Alexis Korner. This album is usually called C.C.S. 2 to avoid confusion with the first, eponymous album, even though that title cannot be found anywhere on the record or sleeve.

It included covers of songs by such diverse artists as Led Zeppelin and The Jackson 5. On the UK Official Chart, the album charted at number 23, while the single "Brother" charted at number 25.

C.C.S. (album)

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C.C.S. was the first studio album of the British blues outfit CCS, led by guitarist Alexis Korner. To avoid confusion with the group's second album with the same name, the album is often called "Whole Lotta Love", due to the inclusion of the Led Zeppelin song. In the UK, "Boom Boom" was issued as the A-side of the single, however "Whole Lotta Love" charted at number 13 on the UK Official Charts. In the US, the single charted at number 58 on the Billboard Hot 100, while the album only charted at number 197 on the Billboard 200.

College of Creative Studies

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The College of Creative Studies (CCS) is the smallest of the three undergraduate colleges at the University of California, Santa Barbara, unique within the University of California system in terms of structure and philosophy. Its small size, student privileges, and grading system are designed to encourage self-motivated students with strong interests in a field to accomplish original work as undergraduates. A former student has called it a "graduate school for undergraduates". The college has roughly 350 students in nine majors and approximately 60 professors and lecturers. There is an additional application process to the standard UC Santa Barbara admission for prospective CCS students, and CCS accepts applications for admissions throughout the year.

The college only offers 9 majors: Art, Biology, Chemistry and Biochemistry, Computing, Marine Science, Mathematics, Music Composition, Physics, and Writing and Literature.

Crown Commercial Service

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The Crown Commercial Service (CCS) is an executive agency and trading fund of the Cabinet Office of the UK Government. The CCS is responsible for managing the procurement of common goods and services, increasing savings for the taxpayer by centralising buying requirements, and leading on procurement policy

on behalf of the government.

ACM Computing Classification System

The ACM Computing Classification System (CCS) is a subject classification system for computing devised by the Association for Computing Machinery (ACM)

The ACM Computing Classification System (CCS) is a subject classification system for computing devised by the Association for Computing Machinery (ACM). The system is comparable to the Mathematics Subject Classification (MSC) in scope, aims, and structure, being used by the various ACM journals to organize subjects by area.

Common-channel signaling

In telecommunications, common-channel signaling (CCS), or common-channel interoffice signaling (CCIS), is the transmission of control information (signaling)

In telecommunications, common-channel signaling (CCS), or common-channel interoffice signaling (CCIS), is the transmission of control information (signaling) via a separate channel than that used for the messages. The signaling channel usually controls multiple message channels.

In the public switched telephone network (PSTN) one channel of a communications link is typically used for the sole purpose of carrying signaling for establishment and tear down of telephone calls. The remaining channels are used entirely for the transmission of voice messages. In most cases, a single 64 kbit/s channel is sufficient to handle the call setup and call clear-down traffic for numerous bearer (voice and data) channels.

The technical alternative to CCS is channel-associated signaling (CAS), in which each bearer channel has a dedicated signaling channel.

CCS offers the following advantages over CAS, in the context of the PSTN:

Faster call set-up time

Greater trunking efficiency due to the quicker set up and clearing, thereby reducing traffic on the network

Can transfer additional information along with the signaling traffic, providing features such as caller ID

Signaling can be performed mid-call

The most common CCS signaling methods in use are Integrated Services Digital Network (ISDN) and Signalling System No. 7 (SS7).

ISDN signaling is used primarily on trunks connecting end-user private branch exchange (PBX) systems to a central office. SS7 is primarily used within the PSTN. The two signaling methods are very similar since they share a common heritage and in some cases, the same signaling messages are transmitted in both ISDN and SS7.

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