

CHAPTER 11

Carbon Capture and Storage Information Resources

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11.1 Further Sources of Information

Organizations, initiatives, projects, and other predominantly online resources relating to CCS technologies.

11.1.1 International and National Organizations and Projects

International Organizations and Projects

The different international organizations for the projects include ADB, EU, CEM, MI, IPCC, GCCSRI, IPHE, CCUS, CCC, CIF, IETA, CCS, CSLF, and UNFCC where details with the website are provided in the table below.

The national organization with the projects and their organization include Kemper IGCC, TCEP, MIT, CWC, DOE, and CMI from Australia, Canada, United Kingdom, Norway, Germany, France, which are described in the table below.

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11.2 Resources by Technology Area

DOE -	U.S. Department of Energy (DOE) - Advanced Energy Systems Program	www.energy.gov
IEA -	IEA Clean Coal Centre	www.iea-coal.org
FutureGen	U.S. DoE FutureGen Initiative	www.fossil.energy.gov
CC Technologies -	Clean Coal Technologies, Inc	www.cleancoaltechnologiesinc.com
NETL -	National Energy Technology Laboratory (NETL) - Carbon Capture, Utilization, and Storage	www.netl.doe.gov
Coal Geology -	International Journal of Coal Geology	www.sciencedirect.com
World Coal Association	World Coal Association	www.worldcoal.org
GTC -	Gasification Technologies Council	www.gasification.org

11.2.1 Clean Coal-fired Generation

DOE	U.S. Department of Energy (DOE) - Advanced Energy Systems Program	www.energy.gov
IEA	IEA Clean Coal Centre	www.iea-coal.org
FutureGen	U.S. DoE FutureGen Initiative	www.fossil.energy.gov
CC Technologies	Clean Coal Technologies, Inc	www.cleancoaltechnologiesinc.com
NETL	National Energy Technology Laboratory (NETL) - Carbon Capture, Utilization, and Storage	www.netl.doe.gov
Coal Geology	International Journal of Coal Geology	www.sciencedirect.com
World Coal Association	World Coal Association	www.worldcoal.org
GTC	Gasification Technologies Council	www.gasification.org

11.2.2 Adsorption

IAS	International Adsorption Society	adsorption.org
PSA Plants	Pressure-swing adsorption trading Portal	www.psaplants.com
EPA	United States Environmental Protection Agency (EPA) - Adsorption	www.epa.gov
Journal of Adsorption Science and Technology	Journal of Adsorption Science and Technology	www.tandfonline.com
Adsorption.org	Knowledge sharing site for adsorption based systems and technologies	www.adsorption.org
ACS	American Chemical Society (ACS) - Division of Industrial and Engineering Chemistry	www.acs.org

11.2.3 Membranes and Molecular Sieves

NAMS	North American Membrane Society	www.nams.washington.edu
IMSTEC	International Membrane Science & Technology (IMSTEC) Conference	www.imstec.org
LANL	Los Alamos National Lab	www.lanl.gov
Membrane Separation Technology	Membrane Separation Technology Group at the University of Twente	www.utwente.nl/en/et/mst
NATCO	Cynara membrane separation systems	www.natcogroup.com
Membrane Technology Forum	Membrane Technology Forum	www.membraneforum.com
UOP	Separex membrane separation systems	www.uop.com
Membrana	Industrial membrane producer	www.membrana.com
MMS	Membrane and Molecular Separation (MMS) Research Group at MIT	web.mit.edu/mms
Praxair	Molecular sieve air separation unit	www.praxair.com

11.2.4 Cryogenic and Distillation Systems

AICHE	American Institute of Chemical Engineers (AIChE) - Distillation and Separation Division	www.aiche.org
Sulzer	Distillation column equipment	www.sulzerchemtech.com
Linde AG	Cryogenic air separation systems	www.linde.de
CSA	Cryogenic Society of America (CSA)	www.cryogenicsociety.org
Cryogenic and Distillation Research Group	Cryogenic and Distillation Research Group at the University of Florida	groberts.che.ufl.edu
Praxair	Cryogenic air separation systems	www.praxair.com
Distillation and Separation	Chemical Engineering Resources - Distillation and Separation	www.chemengonline.com

11.2.5 Mineral Carbonation

MCi	Mineral Carbonation International (MCi)	www.mci.com.au
CCT	Carbon Trap Technologies, L.P.	www.carbontrap.net
UBC	University of British Columbia, Earth, and Ocean Sciences Department	www2.ocgy.ubc.ca/research/dipple/UBC_Carbonation
Carbon8 Systems	Carbon8 Systems	carbon8.com
Frontiers in Mineral Carbonation	Frontiers in Mineral Carbonation Research	www.frontiersin.org
Carbon Mineralization Research Group	Carbon Mineralization Research Group at the University of Oslo	www.mn.uio.no
LANL	Los Alamos National Lab	www.lanl.gov
Mineral Carbonation International Research Hub	Mineral Carbonation International Research Hub	www.newcastle.edu.au

11.2.6 Geological Storage

CSIRO	Commonwealth Scientific and Industrial Research Organisation	www.csiro.au
ARC	Alberta Research Council	www.arc.ab.ca
CO2GeoNet	European Network of Excellence on Geological Storage of CO ₂	www.co2geonet.com
Global CCS Institute	Global CCS Institute	www.globalccsinstitute.com
IEA	International Energy Agency (IEA) - Greenhouse Gas R&D Programme	ieaghg.org
AERI	Alberta Energy Research Institute	www.aeri.ab.ca
DOE	U.S. Department of Energy (DOE) - Carbon Storage Program	www.energy.gov/fe/
CCSA	Carbon Capture and Storage Association (CCSA)	www.ccsassociation.org
IEAGHG	IEAGHG Monitoring and Verification Network	www.ieaghg.org
MGSC	Midwest Geological Sequestration Consortium	www.sequestration.org
USGS	United States Geological Survey (USGS) - Carbon Sequestration	www.usgs.gov

11.2.7 Ocean Storage

IPCC	Intergovernmental Panel on Climate Change (IPCC) Special Report on the Ocean and Cryosphere in a Changing Climate	www.ipcc.ch/srocc
OCN	NOAA's Ocean Acidification Program	www.oceannourishment.com
Atmocean	Developing proprietary wave driven technology to enhance upwelling	www.atmocean.com
MBARI	Monterey Bay Aquarium Research Institute	www.mbari.org
PICHTTR	Pacific International Center for High Technology Research, Hawaii	www.pichtr
OCB	The Ocean Carbon and Biogeochemistry (OCB) Program	http://www.us-ocb.org/
Climos	Developing carbon offsets through ocean iron fertilization	www.climos.com
TOS	The Oceanography Society	www.tos.org

11.2.8 Terrestrial Ecosystem Storage

IPCC	Intergovernmental Panel on Climate Change (IPCC) - Land Use, Land-Use Change, and Forestry (LULUCF)	www.ipcc.ch
CASMGS	Consortium for Agricultural Soils Mitigation of Greenhouse Gases	http://agecon2.tamu.edu/people/faculty/mccarl-bruce/acs/
The Nature Conservancy	The Nature Conservancy - Forest Carbon	www.nature.org
NASA	NASA's Carbon Cycle & Ecosystems	www.carbon.nasa.gov
Woods Hole Research Center	The Woods Hole Research Center	www.woodwellclimate.org
Terrestrial Carbon Group	The Terrestrial Carbon Group	www.terrestrialcarbongroup.org
TERN	Terrestrial Ecosystem Research Network (TERN)	www.tern.org.au

11.3 CCS-related Online Journals and Newsletters

The different journals available for the information include the following

International Journal of Greenhouse Gas Control	https://www.sciencedirect.com/journal/international-journal-of-greenhouse-gas-control
Carbon Capture Journal	https://www.carboncapturejournal.com/allnews.aspx
Journal of CO ₂ Utilization	https://www.sciencedirect.com/journal/journal-of-co2-utilization
The Carbon Brief Newsletter	https://www.carbonbrief.org/
IEAGHG Newsletter	https://www.ieaghg.org/newsletter
Green Car Congress	https://www.greencarcongress.com/
Biodiesel Magazine	www.biodieselmagazine.com
CCS Association Newsletter	https://www.ccsassociation.org/news-and-events/
Clean Coal Today (National Energy Technology Laboratory quarterly newsletter)	www.netl.doe.gov/technologies/coalpower/cctc/newsletter/newsletter.html
The International Journal of Greenhouse Gas Control (Elsevier)	https://www.sciencedirect.com/journal/international-journal-of-greenhouse-gas-control
NETL Carbon Sequestration Newsletter	http://listserv.netl.doe.gov/mailman/listinfo/sequestration