Carbon Capture Journal

Media planning guide and editorial calendar 2018

The Global Carbon Capture and Storage Institute counts 17 large scale CCS projects around the world as of August 2017, with a further five commercial projects planned to commence operations in the next 12-18 months.

But there is also plenty of despondency in the industry - particularly in Europe (apart from Norway). The European Council decided in Spring 2007 it wanted "up to 12" CCS demonstration plants in operation by 2015 - and ended up with none.

The industry is re-configuring itself, partly due to a faster than expected phase out of coal power, and a faster than expected growth and reduction in cost for renewables. If we're looking for a high-tech, low carbon alternative to coal, renewables looks better than coal with carbon capture.

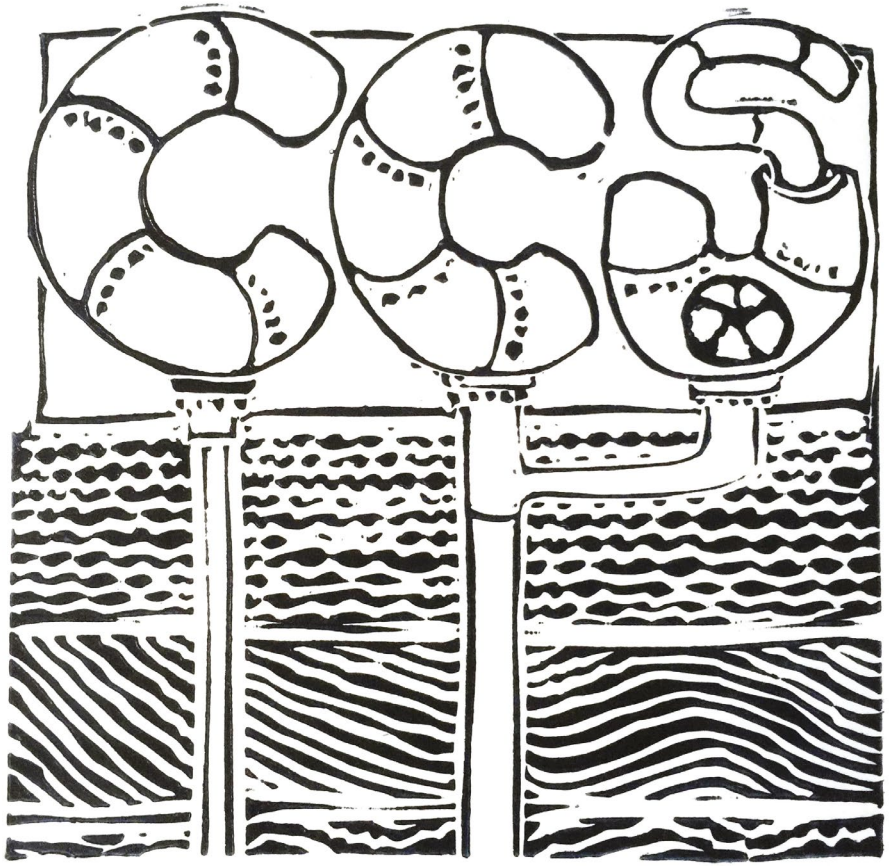
But there are plenty more places where CCS could add value. Norway is looking at waste incineration plants, fertiliser and cement production. Many countries are looking at CO2 enhanced oil recovery. We'll still be dependent on gas power for decades (perhaps forever), and that will need its emissions captured, perhaps less urgently than coal.

There's a number of growing industries finding ways to utilise CO2, which will also require it to be captued for them to use it. And perhaps most interesting of all, the oil and gas industry is finding itself under increasing pressure to do something, now it no longer has the oil price crash as an excuse to justify doing nothing.

It has seen the coal industry basically obliterated in many parts of the world by different regulatory methods, in a bid to reduce CO2 emissions. The oil industry might be next.

So this is the business environment which carbon capture journal finds itself in. We have a solid readership among oil companies, governments, engineers, academics and others involved in carbon capture worldwide.

If the number of new projects is indeed accelerating, and you provide services relevant to this industry, it could be a good time to get involved in the market. We can offer you access to the world's carbon capture industry by marketing your products and services in our magazine, website and newsletter.



PRINT & ONLINE ADVERTISING AND EVENT SPONSORSHIP
Contact David Jeffries
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Your choice

Print advertising, banner advertising or event sponsorship? Here are the advantages of each marketing vehicle as we see it:

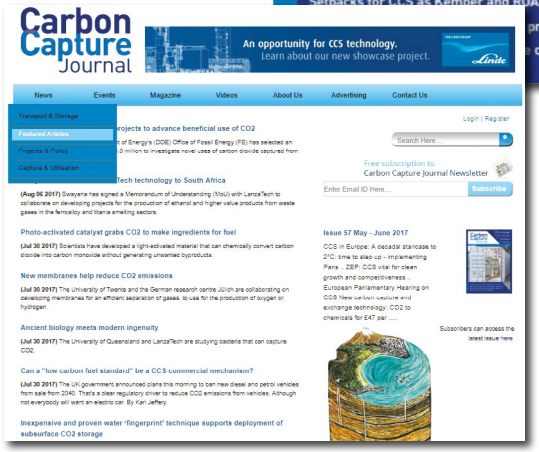
Print / pdf advertising - large printed (or pdf) page to demonstrate what your company offers in full colour. Clients are probably in a more relaxed and absorbing mindset when reading a magazine than reading e-mail. Print advertising can have a long shelf-life, if magazines are passed around a company, kept in a library, or people download pdfs long after initial publication.

Banner advertising (on website or newsletter) - fast results - book an ad on Monday, it can go online on Monday, to our global audience.

Event sponsorship - get a physical connection with your customer, build on your promotional efforts with personal conversation, associate your brand with an exciting conference, gain additional marketing exposure from event publicity, know exactly who is in the room, choose an event which attracts an audience which closely matches your target customers, make product demonstrations at your stand, (in certain circumstances) present your company's services as part of a 30 minute speaker slot.

The next few pages will explain our offerings in more detail.







Carbon Capture Journal Print and PDF Magazine

Our print magazine, Carbon Capture Journal, founded in 2008, is read by people who might make or influence purchase decisions about carbon capture projects, including in government, power companies and oil and gas companies.

Each issue has sections on policy, projects, capture and storage, and we have a program of regional updates through the year (UK, EU, Canada, Australia, US and Asia).

Here is a guide of some of the companies who have employees who have requested and receive the print magazine.

Europe

Austria - Andritz AG

Belgium - IOGP

Finland - Neste Jacobs

France - Ecole des Mines de Paris, INERIS, IFP Energies Nouvelles, Air Liquide, Prosernat, SPX

Germany - GE Carbon Capture, BASF, Forschungsinstitut der Zementindustrie, HeidelbergCement Technology Center, MAN Diesel & Turbo, MAN Turbo

Greece - DNV Research and Innovation

Luxembourg - BQUE Europ Investissemt

Netherlands - NAM, Shell Downstream Services, Shell Global Solutions, Shell International Exploration and Production, TNO PID Dept., European Commission Joint Research Centre

Norway - GassTek Mobile, Oljedirektoratet, TCM DA, Aker Clean Carbon AS, Det Norse Veritas, Ross Offshore

Slovakia - Povaûsk· cement·ren

Spain - Gas Natural, Repsol, Centro de Desarollo de Technologios de CO2 captura

Switzerland ALSTOM (Schweiz), Sulzer Chemtech

United Kingdom - BP Alternative Energy International, Dresser-Rand Company, Energy Technologies Institute, Fugro NPA, Process Systems Enterprise, Progressive Energy, SCCS, School of GeoSciences, Grant Institute, Senergy Alternative Energy, Shell Global Solutions UK, Shell UK Exploration & Production, SPE, TWI, University of Edinburgh

North America

Canada - Alberta Government Library, University of Regina, Cansolv Technologies, Eco-Tec, IPac-CO2, Sulzer Chemtech Canada, The Canadian Institute, HTC CO2 Systems, University of Regina, Environment Canada

United States - Carbon Solutions Team, Chevron, Chevron Energy Technology Company, Chevron Information Technology Company, Dresser-Rand Company, ECOCENTRI, FLUOR, Gasification Technologies Council, Halliburton, Membrane Research, Mustang Engineering, Neumann Systems Group, Optimised Gas Treating, Ramgen Power Systems, Setaram, Stebbins Engineering & Manufacturing, Strategic Center for Coal, University of Wyoming, US Dept of Energy, NETL

Asia Pacific / Middle East

Australia - CO2CRC Limited, Construction, Forestry, Mining & Energy Union

CSIRO, ESD Simulation Training, QER Pty Ltd

India - Carbon Clean Solutions

DNV

Iran - Alborz Energy

Japan - JGC Corporation

Korea - KEPRI

Malaysia - Society of Petroleum Engineers

Qatar - Qatar Petroleum

UAE Abu Dhabi National Oil Company (ADNOC), Maersk Oil Middle East, ENGSL Minerals

Carbon Capture Journal Print + PDF magazine

Calendar

Issue 49 - January/February 2018

- Leaders: review of 2017
- Special topics: focus on UK & additional section on Japan
- CCJ conference reports
- Storage capacity estimation
- Climate change policy

Booking deadline: Dec 4 2017
Ad copy deadline: Dec 11 2017
Publication date: Jan 1 2018

Mar/Apr 2018

- Leaders: focus on Canadian projects, policy and research
- Special topic: CO2-EOR
- Developments with non-amine capture
- Materials for CO2 capture
- Policy of CO2 emissions management

Booking deadline: Feb 9 2018
Ad copy deadline: Feb 16 2018
Publication date: Mar 1 2018

May/June 2018

- Leaders: focus on EU, Middle East and Africa
- Special topic: CO2 monitoring and verification
- CO2 capture from air
- CO2 shipping
- Pipeline safety and reliability

Booking deadline: Apr 13 2018
Ad copy deadline: Apr 20 2018
Publication date: May 1

July/August 2018

- Leaders: focus on Australia
- Special topic: CCS in industrial applications
- Latest developments with amines
- CCS technical and economic modelling
- CO2 capture retrofit

Booking deadline: June 8 2018
Ad copy deadline: June 15 2018
Publication date: July 1 2018

Sept/Oct 2018

- Leaders: focus on US
- Special topic: CO2 compression technology review
- Improving CO2 capture efficiency
- CCS in developing countries and the Clean Development Mechanism
- CCS project financing - quantifying risks

Booking deadline: Aug 10 2018
Ad copy deadline: Aug 17 2018
Publication date: Sept 1 2018

Nov/Dec 2018

- Leaders: focus on Asia
- Special topic: CO2 re-use technology
- Revenue streams from CO2 use
- CCS with hydrogen or syngas production
- Boiler technologies including oxyfuel and CFB

Booking deadline: Oct 11 2018
Ad copy deadline: Oct 18 2018
Publication date: Nov 1 2018

** Dates are subject to change*

Email and website banner advertising

The Carbon Capture Journal e mail newsletter is sent every Monday to around 7,000 people and typically sees about 1500 opens and 500 clicks.

Carbon Capture Journal has a website and weekly e-mail newsletter, which all offer advertising opportunities.

The website sees average sessions per month of about 2,700, and average pages per session of 1.57. The top 10 countries for traffic are France 29%, UK 15%, US 15%, Canada 5%, Australia 4%, Norway 3%, India 3%, Germany 3%, Japan 3%, South Korea 3%.



The e-mail newsletter is typically sent to 6400 people (calculated as "sent" minus "bounces"), with about 1500 opens.

On the website, we offer a 728 x 90 pixel banner at the top of the page (leaderboard) for £1950 per month, or a banner in the right hand column, 375 x 100 pixels, for £1250 per month.

On the newsletter, we offer a 375 x 100 pixel banner, £2,000 per month (4 insertions)



Sample publishing package options - display + banner adverts

Carbon Capture Journal

Front cover full page advertisement + masthead citation
+ full page inside advertisement
£4,500

Full page advertisement + 4 weeks leaderboard banner on website
£4,000

Leaderboard banner on 4 issues of newsletter + e-mail blast
£5,000

Contact us to request a package relating to your specific interests


Leaders CCS in Canada

Canadian teams developing diverse technologies

The nine Canadian teams that have advanced to the semi-finalist round are:

CarbonCure Technologies Inc. – Led by Jennifer Wagner, vice-president sustainability, this team is based in Dartmouth in the province of Nova Scotia in Canada's Atlantic Maritimes region, and has a semi-finalist team with multiple partners. CarbonCure's technology is used in retrofitting concrete manufacturing plants to capture and recycle waste carbon dioxide to make stronger and more environmentally friendly concrete.

The technology injects recycled CO2 into wet concrete while it's being mixed; the CO2 becomes chemically converted to solid calcium carbonate minerals and permanently captured within the concrete. The technology is currently being used by more than 40 concrete companies in Canada and the United States. CarbonCure was named in the prestigious 2017 Global Cleantech 100, produced by Cleantech Group, and received the 2016 Manning Innovation Award.

Carbon Upcycling Technologies – Led by Apoorv Sinha, president, this company is based in Calgary, Alberta – one of two semi-finalists from the province of Alberta. The team uses a proprietary process that captures industrial carbon dioxide and joins it with graphite to create graphene nano-platelets. These nanoparticles can be used to making a lighter and stronger concrete, reinforce construction materials, increase electrical conductivity of plastics, produce water purification membranes, and manufacture high-performance electronics.

Carbicrete – Led by Yuri Myrtka, this startup company founded by University of McGill graduates is based in Montreal, Québec – one of two semifinalists from the province of Québec.

The team's patented technology, which can be implemented in any concrete products plant, uses an industrial residue – the waste slag from steel-making factories – to replace cement as a binding ingredient in "carbonsaga ette" concrete construction blocks and other concrete products. The process injects carbon dioxide gas into the wet concrete to give it its strength, while permanently sequestering the CO2.

Carbon Electrocatalytic Recycling Toronto (CERT) – Led by Ted Sargent, professor of electrical and computer engineering, this semi-finalist is based at the University of Toronto in Toronto, Ontario – one of three semi-finalists from the province of Ontario.

The team is developing robust, efficient, nanostructured metal catalysts that use renewable electricity to turn CO2 selectively into useful fuels and high-value chemical feedstocks.

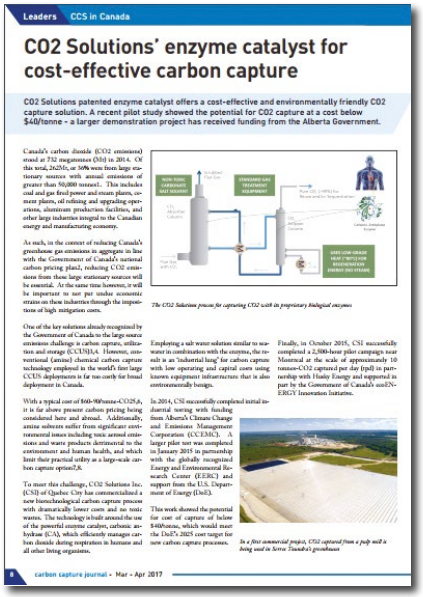
CO2 Solutions – Led by Louis Fradette, director, valorisation carbone (carbon value development) Québec, this team is based in the city of Québec.

The company's patented, non-toxic enzyme-accelerated solvent process – in essence an "industrial lung" for carbon capture – captures carbon dioxide from effluent gases and produces pure CO2 for utilization. Potential ap-

Carbon Carbon Capture Technologies' control system installed at a concrete manufacturing plant (Image ©CarbonCure Technologies)

Worker preparing mixture of Carbon Cure's environmentally friendly concrete (Image ©CarbonCure Technologies)

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Leaders CCS in Canada

CO2 Solutions' enzyme catalyst for cost-effective carbon capture

CO2 Solutions patented enzyme catalyst offers a cost-effective and environmentally friendly CO2 capture solution. A recent pilot study showed the potential for CO2 capture at a cost below $40/tonne – a larger demonstration project has received funding from the Alberta Government.

Canada's carbon dioxide (CO2 emissions) stood at 732 megatonnes (Mt) in 2014. Of this total, 162Mt, or 30% were from large stationary sources with annual emissions of greater than 50,000 tonnes1. This includes coal and gas fired power and steam plants, cement plants, oil refining and upgrading operations, aluminium production facilities, and other large industries integral to the Canadian energy and manufacturing economy.

As such, in the context of reducing Canada's greenhouse gas emissions in aggregate in line with the Government of Canada's national carbon pricing plan2, reducing CO2 emissions from these large stationary sources will be essential. At the same time however, it will be important to not put undue economic strains on these industries through the imposition of high mitigation costs.

One of the key solutions already recognized by the Government of Canada to the large source emissions challenge is carbon capture, utilization and storage (CCUS)3,4. However, conventional (amine) chemical carbon capture technology employed in the world's first large CCUS deployments is far too costly for broad deployment in Canada.

With a typical cost of $60-90/tonne-CO25,6, it is far above present carbon pricing being considered here and abroad. Additionally, amine solvents suffer from significant environmental issues including toxic aerosol emissions and waste products detrimental to the environment and human health, and which limit their practical utility at a large-scale carbon capture option2,8.

To meet this challenge, CO2 Solutions Inc. (CSI) of Québec City has commercialized a new biotechnological carbon capture process with dramatically lower costs and no toxic wastes. The technology is built around the use of the powerful enzyme catalyst, carbonic anhydrase (CA), which efficiently manages carbon dioxide during respiration in humans and all other living organisms.

Employing a salt water solution similar to seawater in combination with the enzyme, the result is an "industrial lung" for carbon capture with low operating and capital costs using known equipment infrastructure that is also environmentally benign.

In 2014, CSI successfully completed initial industrial sizing with funding from Alberta's Climate Change and Emissions Management Corporation (CCEMC). A larger pilot test was completed in January 2015 in partnership with the globally recognized Energy and Environmental Research Center (EERC) and support from the U.S. Department of Energy (DoE).

This work showed the potential for cost of capture of below $40/tonne, which would meet the DoE's 2025 cost target for new carbon capture processes.

Finally, in October 2015, CSI successfully completed a 2,500-hour pilot campaign near Montreal at the scale of approximately 10 tonnes-CO2 captured per day (tpd) in partnership with Husky Energy and supported in part by the Government of Canada's ecoENERGY Innovation Initiative.

The CO2 Solutions process for capturing CO2 with its proprietary biological enzymes

In a first commercial project, CO2 captured from a pulp mill is being used in Sorra Tomato's greenhouses

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About Carbon Capture Journal

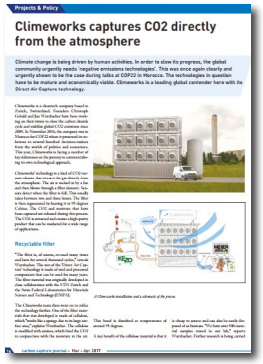
Carbon Capture Journal was founded in 2008. We publish a bi-monthly print magazine, a weekly e-mail newsletter.

It is edited and co founded by Keith Forward, who has 20 years' experience as a journalist in energy and shipping, and studied physics at Imperial College, London.

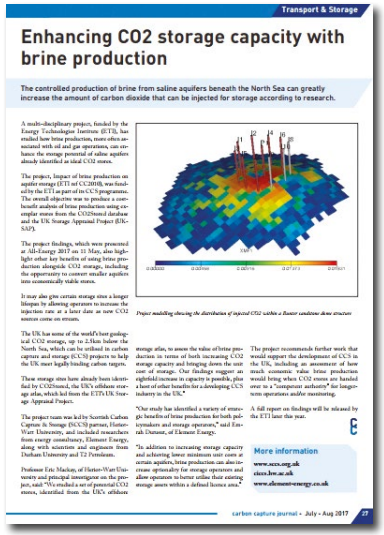
It is published by Karl Jeffery, who also edits Digital Energy Journal and publishes Tanker Operator magazine, and studied chemical engineering in Nottingham University, UK.

Carbon Capture Journal is published by Future Energy Publishing Ltd, based in London. We also publish Digital Energy Journal (about digital technology in upstream oil and gas), Tanker Operator (about deep sea tanker operations), and organise 30 conferences a year. Our focus is keeping energy supplies and climate sustainable and affordable.




Projects & Policy

Climeworks captures CO2 directly from the atmosphere


Transport & Storage

Enhancing CO2 storage capacity with brine production