

**Carbon capture and storage is slowly making big advances around the world, even if it is not making the headlines. More and more big projects are coming onstream, and more and more regulators, from Angela Merkel down, are realising that carbon capture is the only way to deliver climate goals. We are seeing growing interest across the globe - US, Canada, Europe, Middle East, India, Korea, Japan, Australia.**

This technology is surely inevitable – the only question is when.

A lot more effort is going into making projects commercially viable, including moving away from coal power stations as a source of CO<sub>2</sub>, exploring ways oil companies can do carbon capture and make a profit on it (or at least appeal more to investors), and ways 'cluster' projects can be developed which spread out the cost.

The Global Carbon Capture and Storage Association counts 51 large scale CCS facilities in its 2019 Global Status of CCS report (an increase from 43 in the previous year). Of these, 19 are operating, four are under construction, 10 are in advanced development using a dedicated front end engineering design (FEED) approach and 18 are in early development. (The equivalent numbers in the 2018 report were 18 operating, 5 under construction, and 20 in various stages of development).

The carbon price is slowly climbing, from Eur 8 to Eur 30 over Jan 2018 to Aug 19 in Europe. The chances of regulation to keep it high, or provide other incentives for carbon capture, are increasing.

Industry suppliers of all kinds are starting to realise the number of potential business opportunities which exist, from onshore equipment engineering, pipelines, solvents, pumps and compressors, offshore engineering, subsurface consultancy of many kinds. As well as supplies of sensors, including monitoring CO<sub>2</sub> emissions to the atmosphere and fibre optics in wells.

Carbon Capture Journal exists to help the carbon capture industry solve the problem of developing commercial models for carbon capture, utilisation and storage. If you have products and services in this sector, we can help connect you with your market.

All of this makes for a lively community and large potential market - and if you have products and services for it, we can help you meet the market.

Our classic product is print / pdf advertising, in our bi-monthly magazine, sent on print and pdf, giving you a large space for your message.

We also have banner advertising in our newsletter and website, with around 2,000 monthly users. We also have opportunities in our events, planned in London in 2021, together with Finding Petroleum.

Further information about what we offer is contained in this Media Planning Guide.

### PRINT & ONLINE ADVERTISING AND EVENT SPONSORSHIP

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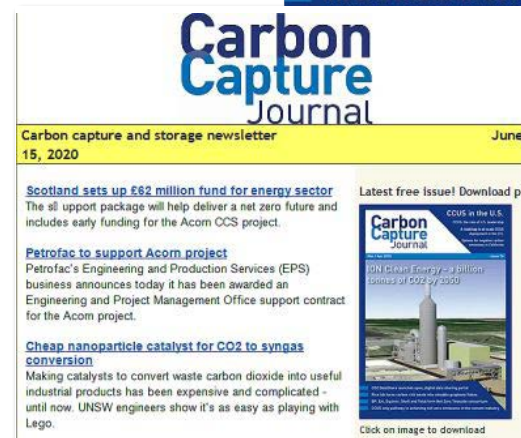
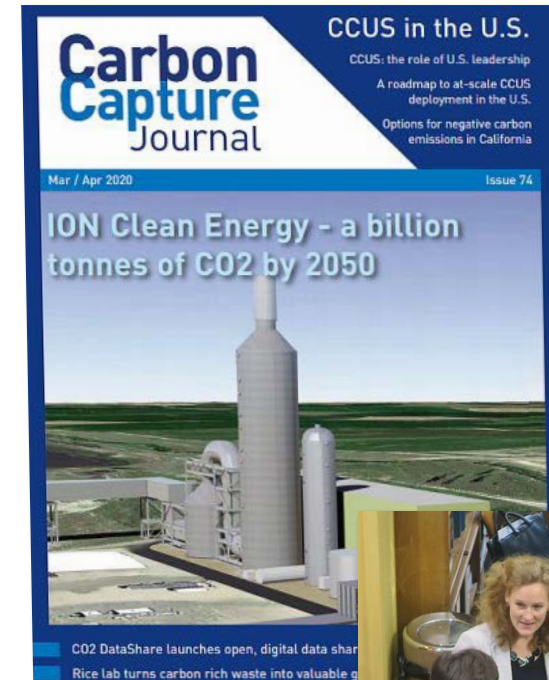
## Print advertising, banner advertising or event sponsorship? Here are the advantages of each marketing vehicle as we see it:

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.**



**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 Investissemnt

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 Norske Veritas, Ross Offshore

Slovakia - Považsk. cement-ren

Spain - Gas Natural, Repsol, Centro de Desarrollo de Tecnologías 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

## Calendar

### Issue 73 - January/February 2021

- Leaders: review of 2020
- Special topics: focus on UK & additional section on Japan
- CCJ conference reports
- Storage capacity estimation
- Climate change policy

Booking deadline: Dec 4 2021

Ad copy deadline: Dec 11 2021

Publication date: Jan 1 2021

### Issue 74 - Mar/Apr 2021

- Leaders: focus on Canadian projects, policy and research
- Special topic: CO<sub>2</sub>-EOR
- Developments with non-amine capture
- Materials for CO<sub>2</sub> capture
- Policy of CO<sub>2</sub> emissions management

Booking deadline: Feb 9 2021

Ad copy deadline: Feb 16 2021

Publication date: Mar 1 2021

### Issue 75 - May/June 2021

- Leaders: focus on EU, Middle East and Africa
- Special topic: CO<sub>2</sub> monitoring and verification
- CO<sub>2</sub> capture from air
- CO<sub>2</sub> shipping
- Pipeline safety and reliability

Booking deadline: Apr 13 2021

Ad copy deadline: Apr 20 2021

Publication date: May 1 2021

### Issue 76 - July/August 2021

- Leaders: focus on Australia
- Special topic: CCS in industrial applications
- Latest developments with amines
- CCS technical and economic modelling
- CO<sub>2</sub> capture retrofit

Booking deadline: June 8 2021

Ad copy deadline: June 15 2021

Publication date: July 1 2021

### Issue 77 - Sept/Oct 2021

- Leaders: focus on US
- Special topic: CO<sub>2</sub> compression technology review
- Improving CO<sub>2</sub> capture efficiency
- CCS in developing countries and the Clean Development Mechanism
- CCS project financing - quantifying risks

Booking deadline: Aug 10 2021

Ad copy deadline: Aug 17 2021

Publication date: Sept 1 2021

### Issue 78 - Nov/Dec 2021

- Leaders: focus on Asia
- Special topic: CO<sub>2</sub> re-use technology
- Revenue streams from CO<sub>2</sub> use
- CCS with hydrogen or syngas production
- Boiler technologies including oxyfuel and CFB

Booking deadline: Oct 11 2021

Ad copy deadline: Oct 18 2021

Publication date: Nov 1 2021

*\* Dates are subject to change*

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)





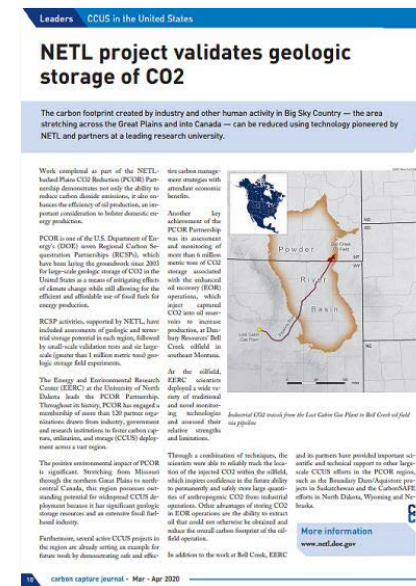
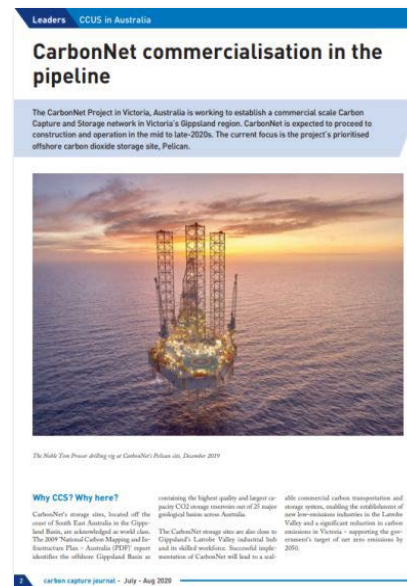
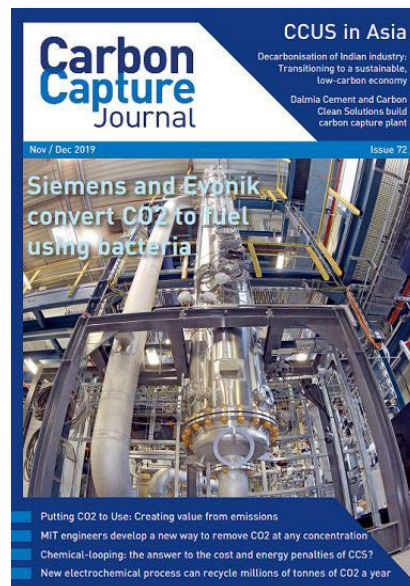
# Sample publishing package options - display + banner adverts

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



**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.

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**Advanced Manufacturing to Drive Down Capture Costs**  
Improving Performance Through Additive Manufacturing

Additive manufacturing, using 3D printing, enables the development of components for carbon capture equipment that intensify heat and mass transfer, improve process performance, and reduce overall equipment size, lowering capital and operating costs.

DOE/FENETL is currently supporting three projects that are using 3D printing to produce rapid prototypes with the potential to capture CO<sub>2</sub> more efficiently and economically.

<p><b>Lawrence Livermore National Laboratory</b></p> <p>Designing and fabricating high-efficiency reactors using novel geometries that support transformational solvent-based capture technologies.</p>	<p><b>ION</b></p> <p>Developing a 3D-printed absorber with integrated packing and internal cooling capabilities to help optimize solvent-based capture.</p>	<p><b>OAK RIDGE National Laboratory</b></p> <p>Producing intensified devices that combine heat and mass transfer operations to drive down costs of solvent-based capture processes.</p>
<p><b>Progress to Date</b></p> <p>Both plastic and metal absorbers have been 3D-printed for testing and analysis.</p>		
<p>Silicon-based porous structures have been created with one micron resolution using stereolithography.</p>	<p>An aluminum version of a column packing structure with built-in heat exchange has been successfully 3D-printed.</p>	

**CARBON CAPTURE JOURNAL**

**Carbon Capture Journal**

CCUS in EMEA

Aker Solutions' CCUS tech certified by DNV GL for cement plant

Converting CO<sub>2</sub> into a valuable solid carbon resource

LEILAC project scales up fourfold for Phase 2

May / June 2020 Issue 75

**CO<sub>2</sub>CRC Otway project: tracking CO<sub>2</sub> plume migration**

Aquistore demonstrates safe and cost-effective CO<sub>2</sub> storage

TÜV SÜD - the need to measure carbon dioxide flows accurately

Global CCS Institute - how to scale up the CCS market

Report highlights twenty years of DOE's carbon storage program