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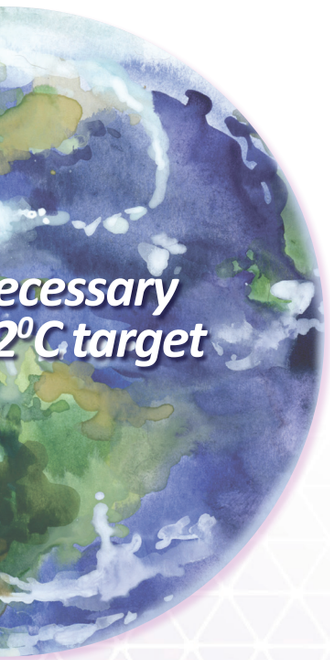
CCS IS ESSENTIAL TO MEET 2°C CLIMATE TARGETS.

CCS is a proven, reliable and clean technology that removes the single largest amount of CO_2 from the atmosphere, more than any other existing technology. The time for action is now.

The climate goals defined in the Pairs Agreement, and the level of global emission reductions required to achieve them, make CCS technology not only a valuable but essential mitigation option - for without CCS, the 2°C target is not economically feasible.[2]



[2] Per report of the United Nations' International Panel on Climate Change.

INTERNATIONAL
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Got a potential large-scale CCS project?
WE'D LIKE TO WORK WITH YOU.

Carbon Capture Facility at SaskPower's BD3 power station near Estevan Saskatchewan.

contact us directly at 1-306-565-5669
info@ccsknowledge.com

** there is no membership fee to engage with the International CCS Knowledge Centre*

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We bring together those with substantial experience in commercial operations of full-chain CCS[1] with those early in the learning curve.

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FOUNDED ON GLOBAL SOLUTIONS.

The International CCS Knowledge Centre was created in 2016 as a non-profit organization sponsored jointly by global resource leader, BHP and SaskPower with the goal of accelerating the world-wide development of CCS technology through the:

- sharing of access to data, information, and lessons learned from SaskPower's Boundary Dam 3 CCS Integrated Facility (BD3); and,
- incorporating the knowledge and experience from CCS projects elsewhere in the world.

[1] CCS stands for Carbon Capture and Storage. Sometime it is also referred to as CCUS-for Carbon Capture Utlization & Storage.

IT'S ABOUT SUSTAINABLE REALITY

At the International CCS Knowledge Centre, we recognize the urgency and collective responsibility to act now to tackle climate change.

Many developing countries have a growing middle class and demand energy security. Implementation of CCS could meaningfully aid in decarbonization.

Sharing CCS knowledge and expertise can result in considerable emission reductions and complement the sustainable development goal of affordable and clean energy. Sharing our lessons learned, offers a model for international collaboration under which technology and know-how can extend beyond borders to have a global impact.

RENEWABLES AND CCS ARE COMPLEMENTARY AND SHOULD CO-EXIST.

In time, the world will be powered by 100% renewable energy. Yet until the technological advances are there for renewables to ensure reliable baseload energy systems, CCS is an essential stopgap and an important transitory technology. CCS complements the evolving efforts in renewable development.

At the International CCS Knowledge Centre, we believe that environment and economy go together –and for us to make a significant and effective impact that resonates on a global scale, we need to share what we know in CCS and work collaboratively toward a common goal to reduce climate change.

CCS WORKS WITH MANY INDUSTRIES WANTING TO REDUCE THEIR GHG EMISSIONS.

CCS is not only a technology applicable to the energy sectors for abated coal-fired power, oil and gas production and natural gas-fired power; it is a technology that can be applied to industrial sources of emissions which have limited abatement options, such as iron and steel, concrete and other processes.

CCS AT BD3 IS INNOVATION THAT IS SOLUTION-FOCUSED

CCS has been well demonstrated and operated at full commercial scale. With three years of operating experience and lessons learned, the CCS unit at BD3 has captured over two million tonnes of CO_2.

The best learnings at BD3 have come from surprises in operation. We know what works. Just as vital, we know what doesn't work - we know how to prevent detours, delays, and miscalculations because we retooled and adapted. These are the lessons learned and the expertise that we want to share with the world. Knowing what to do, as well as what not to do, can save a lot of time and a lot of money.

WE'VE GOT THE COMMERCIAL KNOW-HOW

We believe that by openly sharing lessons learned in planning, construction and operations, it not only reduces risk and costs for future projects, it provides forums for continued development leading to new advancements and innovation world-wide.

CCS pilot projects need to be taken to full scale and then operated – that's where tested science and engineering works. We collaborate to assist in the actual implementation of CCS projects and to optimize CCS technology. Together, this will act to lower both capital and operating costs of CCS.

Carbon Capture Facility at SaskPower's BD3 power station near Estevan Saskatchewan.

'IT'S TOO EXPENSIVE' IS A MYTH AND A TIRED OLD STORY.

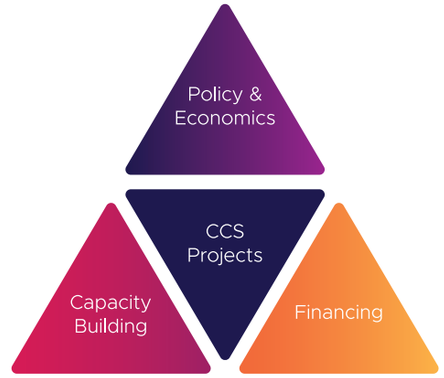
The cost of CCS will rapidly decline by applying technological refinement at all stages and development. This is evidenced through the deployment, operation and learnings from large scale projects, such as BD3 along with over 35 other projects either operating or in development world-wide, the cost of CCS is rapidly declining.

As is the case with all clean tech innovation, first projects out of the gate, assume the expense of the yet-to-be-understood. The International CCS Knowledge Centre offers the knowledge gained (and being gained) from the lessons learned at BD3 – to support countries and investors in significantly reducing their costs and risks with their own large-scale CCS projects.

WE UNDERSTAND FUNDAMENTAL DRIVERS ARE ALSO AT PLAY

At the International CCS Knowledge Centre, we understand that there are fundamental drivers that enable CCS projects beyond those associated with engineering processes.

Often the overarching considerations enabling a project are related to certain economic realities, energy mixes, proximity to storage or EOR sites, and policy incentive or regulation governance. With these considerations in mind, we work with decision makers to advise on the viability of a contemplated CCS project.



Fundamental Drivers for successful CCS projects

HOW WE SUPPORT CCS PROJECTS

We have the capacity to support new global CCS project on business development, operations and technology. We can:

- facilitate in an advisory role based on expertise and lessons learned from BD3;
- engage with key funding institutions that are interested in financing CCS to help de-risk investments;
- support the understanding and statutory considerations in the value of CCS as a policy tool for GHG abatement;
- provide capacity building for CCS implementation and training opportunities; and
- Provide testing at SaskPower's Carbon Capture Test Facility.