

# Carbon capture, utilization and storage (CCUS) *works* to combat global warming.

## Saskatchewan can lead the world.

As we come to grips with the global climate crisis, the urgency to implement effective solutions becomes ever more pressing.

While we must embrace renewable energy sources, we must also face the reality that carbon-based resources will remain an integral part of our worldwide energy economy for a long time to come, and that a reliance on 100 percent renewables will not reverse our current course in time. Indeed, just building the infrastructure needed for renewables to function will require the use of traditional natural resources.

We just have to do it more cleanly. And we can.

We are Saskatchewan's Boilermakers — a team of highly skilled, reliable and productive tradespeople that includes welders, riggers and fitters, who work in the construction and maintenance of our province's large-scale industrial infrastructure, including our energy sector. We have a unique perspective to see forward-thinking developments up close.

We've seen, first-hand, that the answer to our climate change challenges is already a proven technology: **Carbon capture, utilization and storage** (known as **CCUS** or simply **CCS**).

Several leading-edge scientific organizations agree, including the Global CCS Institute and the International CCS Knowledge Centre (which is headquartered in Regina). Recent feasibility studies by the Knowledge Centre suggest that new proposals — including a retrofit to SaskPower's Shand Power Station — will see increasing CO<sub>2</sub> capture rates coupled with decreasing building and operational costs.

To learn more about CCUS, visit the experts:

International CCS Knowledge Centre: [ccsknowledge.com](https://www.ccsknowledge.com)

Global CCS Institute: [globalccsinstitute.com](https://www.globalccsinstitute.com)

CCUS is a sensible, reasonable, and reliable solution to tackle this urgent challenge. It allows reliable energy production through a realistic mix of renewables and clean fossil fuels — a solution that keeps energy and industrial workers at work and prosperous, keeps our energy needs fulfilled in ever-cleaner ways, and keeps local and global economies strong.



Photos courtesy of the International CCS Knowledge Centre

Having built three large-scale CCUS installations in Canada, we Boilermakers have seen that the process works and that the costs incurred by implementing it are significantly reduced with every new project that's built. CCUS is *the* bridging solution to a zero-emission future. We must ask ourselves: What is the cost of *not* applying this technology to its full potential?

Saskatchewan has already led the way in pioneering CCUS on an industrial scale, with SaskPower's Boundary Dam 3 coal-fired power plant — built and maintained by Boilermakers.

Armed with CCUS technology, the plant now captures up to 90 percent of the carbon dioxide that it used to emit — the equivalent emissions of 250,000 vehicles a year. We must build on that.

The truth is stark: CCUS is the only clean technology that can decarbonize industry — in the production of steel, potash, cement, petrochemicals, pulp and paper, as well as coal- and gas-fired power. No other existing technology can do it.

Boilermakers believe so strongly in this cause, that we organized the production of a short film:

### CCS: Bridge to a Cleaner Energy Future

Visit [CleanerFutureCCS.org](https://www.CleanerFutureCCS.org) to watch the video. You can also find it on YouTube. See CCUS's promise for yourself.

Some governments promise a “just transition” for workers being forced out of industrial and energy jobs. A transition to what? And how “just” will it be? Let's go green while keeping our jobs intact. That's the “best” transition.

We Boilermakers want the world — and the Saskatchewan government — to understand that we see how CCUS is a “must do” clean technology. We've helped to prove that it works, and we've seen that it works better and better with every new project that we have the courage to make real.

We urge the Saskatchewan government to make an aggressive and tangible commitment to furthering our goals through CCUS.

## Saskatchewan can lead the world — in the *best* transition to a better future for all.

Contact **Cory Channon**, International Director of Climate Change Policy Solutions, IBB | [cchannon@boilermakers.org](mailto:cchannon@boilermakers.org)

# INTERNATIONAL BROTHERHOOD OF BOILERMAKERS

