

Every component of the Monash Energy project has been proven and is in practice, somewhere around the world. Its overriding technical challenge is to bring these technologies and processes together for the first time.

Weyburn, Canada
 Source: PTRC
 At Weyburn, the CO₂ from Great Plains is injected to increase recovery in the oil field (enhanced oil recovery or 'EOR').

CO₂ for storage

Sleipner, Norway
 Source: Statoil
 At Sleipner, Norwegian oil and gas company Statoil has been capturing and storing more than 1 million tonnes of CO₂ annually since 1996.

CO₂ for storage

Buggenum, Netherlands
 At Buggenum, Shell built a 250MW Integrated Gasification Combined Cycle plant in 1993.

Gasification

Beulah, North Dakota, USA
 Source: Dakota Gasification Co.
 At Beulah, North Dakota, the Great Plains Gasification Plant also captures the CO₂, which is compressed and transported via pipelines to Weyburn.

Gasification

Frechen, Germany
 At Frechen, German power company RWE built a pilot scale coal dryer in 1993 and a second generation version in 2001.

Drying

Bintulu, Malaysia
 Source: Shell
 At Bintulu, Sarawak, a Shell plant built in 1993 produces more than 15,000 barrels of hydrocarbon products per day from a natural gas feedstock.

Gas to Liquids

Yue Yang, China
 At Yue Yang, Shell installed a gasifier for a chemical plant in 2007.

Gasification

Texas, USA
 In Texas and across the Permian basin there are more than 2,500 km of pipelines carrying CO₂ for enhanced oil recovery.

CO₂ for storage

In Salah, Algeria
 Source: BP p.l.c.
 At In Salah, a gas processing facility operated by Sonatrach, BP and Statoil, is re-injecting approximately one million tonnes of CO₂ each year.

CO₂ for storage

Secunda, South Africa
 At Sasol's Secunda coal to liquids plant, over 140,000 barrels of transport fuels is produced every day.

Liquids

Loy Yang, Victoria
 Loy Yang Power mines more than 30 million tonnes per year of brown coal.

Brown Coal

Hazelwood, Victoria
 At International Power's Hazelwood Power Station, RWE is designing a coal dryer to pre-dry coal for a 200MW boiler.

Drying

Otway Basin, Victoria
 Source: CO2CRC
 At the Buttress field in the on-shore Otway Basin, a CO2CRC trial will inject approximately 100,000 tonnes of CO₂ into the nearby Naylor field.

CO₂ for storage

