

HUBS IN ACTION – LESSONS FROM OGCi’S KICKSTARTER HUBS

RAVENNA CCS

Led by Eni, this hub aims to become the reference hub for Italy and the Mediterranean.

Ravenna CCS aims to become the pioneer hub for Italy and the Mediterranean. Led by Eni, the hub is in early development. The plan is to launch phase 1 in 2023, testing technologies in a full capture, transport and storage chain handling up to 100,000 tonnes per year.

Phase 2, scheduled to start in 2027, will allow storage of 4 million tonnes of carbon dioxide per year, about half of it from three power stations and a hydrogen plant owned by Eni, and the rest from other emitters. Eni is already in talks with hard-to-abate industries in the region (cement, steel, fertilizer, glass etc) in the region, among others. Interest from emitters in Italy and beyond has grown with the increase in European Trading Scheme carbon prices, and the European Commission’s ‘Fit-for-55’ package of climate legislation.

Location

northeast Italy

Potential impact by 2030

10 MtCO₂/year

Hub developer/T&S

Eni

Initial CO₂ sources

power, hydrogen

Potential CO₂ sources

steel, glass

Transport

pipeline

Storage site

depleted gas reservoirs off the coast of Ravenna

Status

investment decision expected in 2022

In operation

2026



Storage will be in offshore depleted gas reservoirs in the Adriatic Sea. Total storage resource in the Adriatic is estimated at 500 million tonnes, giving the possibility in subsequent development phases to increase storage capacity to more than 10 million tonnes per year, covering the decarbonization needs of additional clusters.