Gasunie’s journey to open access and future-proof CCS infrastructure

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Agenda

1. Background information on Gasunie
2. Gasunie’s CCS journey
3. Key lessons learnt so far
4. CCS challenges of the future
Gasunie as a European Gas Infrastructure Company

- Transport volume: 1.108 TWh
- Revenue: €2.258 m
- Profits: €555 m
- 17.500 km pipelines
- TTF largest European Gas Hub
- Groningen
- Brisbane
Gasunie has continuously reinvented itself in a changing environment
Gasunie is increasingly focussing on CCS as an indispensable abatement option

Excerpts from IEA and IPCC reports indicating the need for CCS

- Globally, the share of total CO2 captured from heavy industries is expected to increase exponentially.
- According to the IPCC, carbon removal through BECCS and DACCS is vital even in the most optimistic scenario.
Gasunie’s CCS Journey Phase 1: Porthos

Local scale:

A single LP collection system (10 MTPA) and single storage (2.5 MTPA). FID 2023
Gasunie's CCS Journey Phase 2: CO2next & Aramis

National scale:
Liquid receiving terminal (7 MTPA), compression system and pipeline (22 MTPA) and multiple connected storages. Ready for FEED
We have screened some 50 NW European opportunities and infrastructure needs.

Our focus will be on systems connected or connectable to the Netherlands but as a good neighbor serving international clients.

We are initiating/conducting feasibility assessments as a basis to engage the market.
What have we learned from the journey so far?

Experience is key

Our learning journey helps to accelerate projects. We have fewer wheels to invent. This acceleration is proving essential to meet the challenges for phase 3.

Open access

There is trepidation from potential clients when faced with a system managed by parties who have competing commercial interests. Ultimately the system operator should be independent of emitters and stores.

Cost and risk sharing

Achieving agreement, not only on the sharing of costs/revenues but also on the sharing of risks along the value chain is key to being able to develop a chain that is attractive.

Stakeholders

It is essential to invest time to be able to understand the needs of local, national and international stakeholders. Wise investment early on in this area yields time saving later and yields a better result.
Key challenges of the future – ever increasing complexity

The complexity of projects will continue to increase, requiring treaties, international value chain cooperation, commonality of specifications, and (local) public support required for international projects.
Gasunie will continue its CCS journey to limit global warming and to retain the competitiveness of Dutch and Northwest European industries.