

Innovation Programme CCS and DACCS

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Objectives subsidy call

- CCS/DACCS = carbon capture, transportation and storage of CO₂ based on fossils, biomass and direct air capture
- Objectives of the call:
 - Cost reduction per ton CO₂ captured
 - Acceleration of implementation of CCS/DACCS
 - Reduction of environmental effects
 - Reduce (technical) uncertainties in the value chain



Innovation topics (1)

CO2 capture

- Improved sorbents/solvents and process optimization:
- Improved small scale capture (<100 kton/jr)

DAC (direct air capture and direct seawater capture of CO2)

- Developing and improving DAC technology
- Water management of DAC

CO2 transport

- Management of complex CO2 networks



Innovation topics (2)

CO2 storage

- Final pressures of storage in gas fields and aquifers

CO2 quality and impurifications in CO2 streams

- Impact of impurities on CO2 chains with different streams and storage locations
- Harmonisation of CO2 quality
- Capture: research into effects of impurities in flue gases on process variables
- Transport: model development for thermo dynamic properties of impurities
- Storage: research into effects of impurities on storage behaviour
- Effective and efficient monitoring in CCS chains
- Real-time monitoring of composition of CO2 flows



Selection criteria

- Contribution to the objectives of the call
- Innovation content
- Quality of the project plan
- Quality of the consortium
- Feasibility of the solution in the market and in society



Requirements subsidy call

- TRL level 3 - 6
- Minimum consortium: 1 company and 1 research institute
- Total budget: € 4.000.000
- Maximum subsidy per project: € 500.000
- Project duration: 3 yrs
- Maximum subsidy:
 - Fundamental research (fundamenteel onderzoek) = 80%
 - Industrial research (industrieel onderzoek) = 50%
 - Experimental research (experimenteel onderzoek) = 25%
- Top-up SMEs: 10% for ME, 15% for SE



Proces in two stages

Stage 1: Expression of interest

- Deadline May 15, 2024
- 4 pages proposal
- Review by independent experts: go or no-go (Mid/end of June)

Stage 2: Full proposal (if go in stage 1)

- Deadline Sept 15, 2024
- Full proposal including partners and budget
- Review by experts: tender proces