



TECHNOLOGY
CENTRE
MONGSTAD

Technology Centre Mongstad

Anette Knarvik
Process Engineer

2005

Government: No carbon based power production in Norway without CCS (carbon capture and storage)

2006

The Norwegian government and Statoil agrees to:

- 1: Demonstrate and develop capture technologies (TCM)
- 2: Build full scale (1 million ton CO₂/ year) capture plant

2009

Investment decision to create TCM
Partnership established (TCM DA)



2012

Official start-up May 2012
Five year test period started

2017

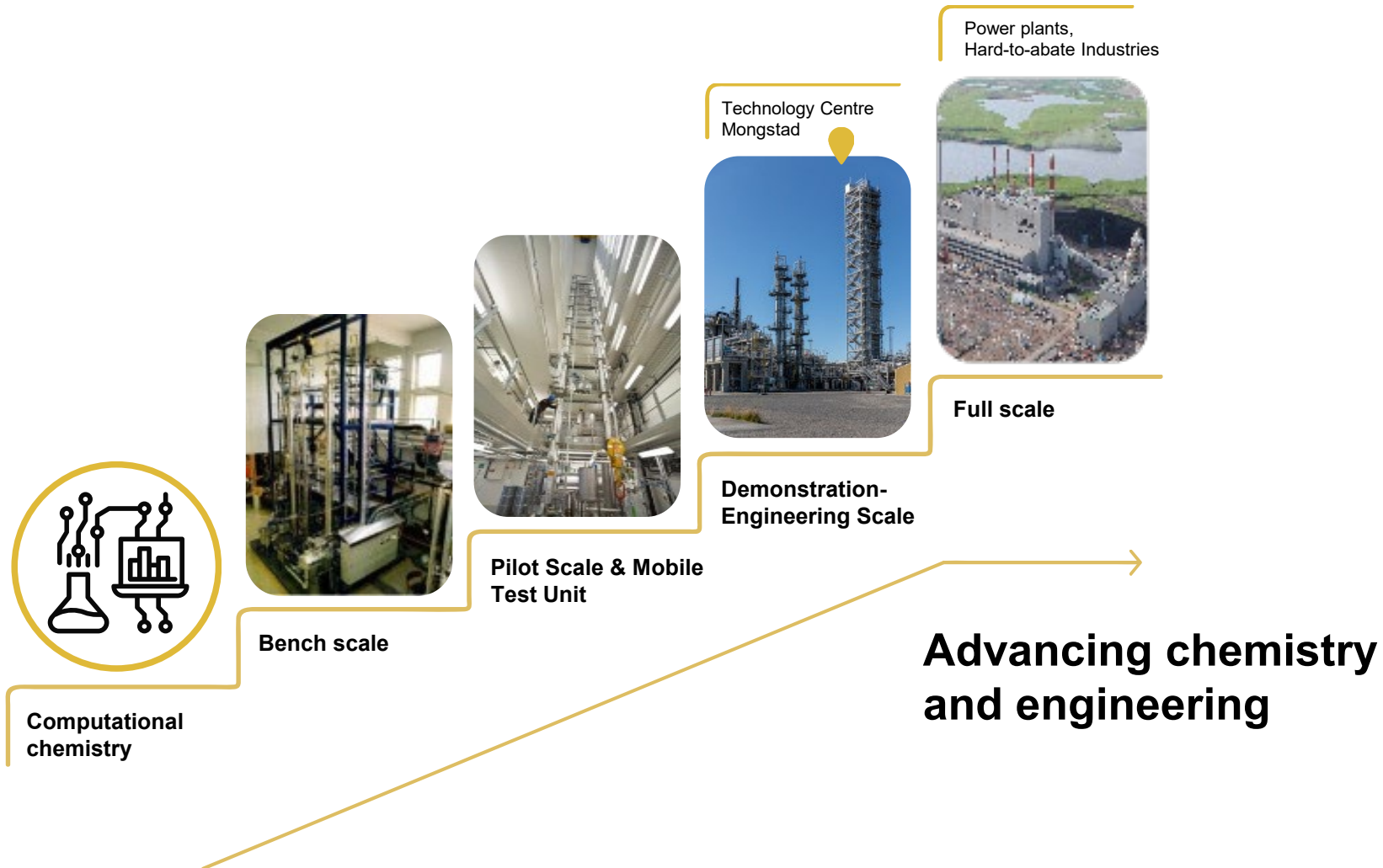
New company started August 2017



2020

Extension to 2023

Technology Center Mongstad – Last step before full scale amine technology deployment



Flue gas sources:

- CHP: 3.5% CO₂
- RFCC: 13-15% CO₂

Technologies:

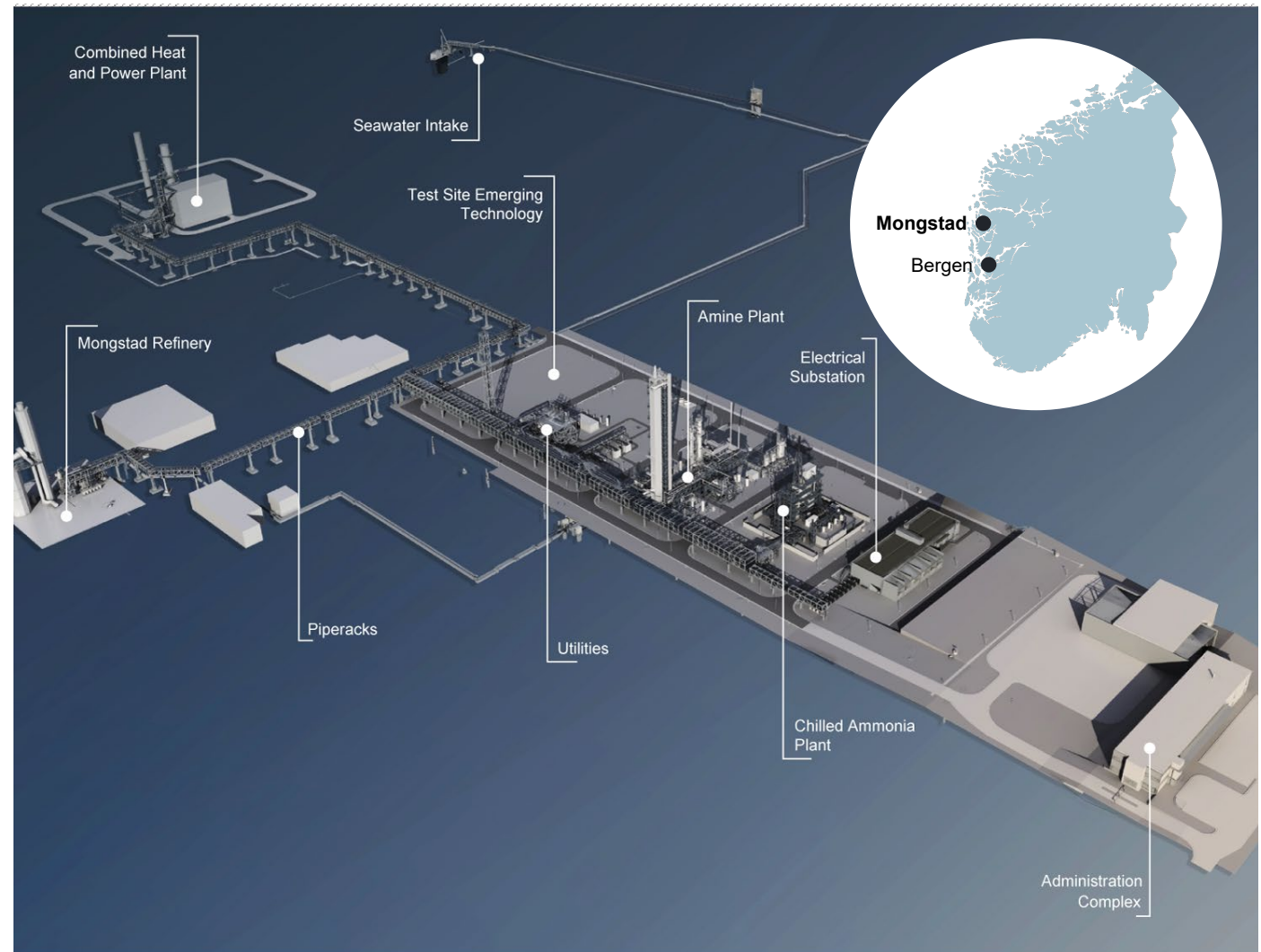
- Chilled Ammonia Plant (CAP)
- Amine Plant
- 3rd site for emerging technologies (modules)

Capacity:

- Amine + CAP = 100 000 ton CO₂/year
- 3rd site: 18 000 ton CO₂/year

Measurement:

- 4 000 online instruments
- 100 manual sample points





Proprietary testing
> 20 000 hours



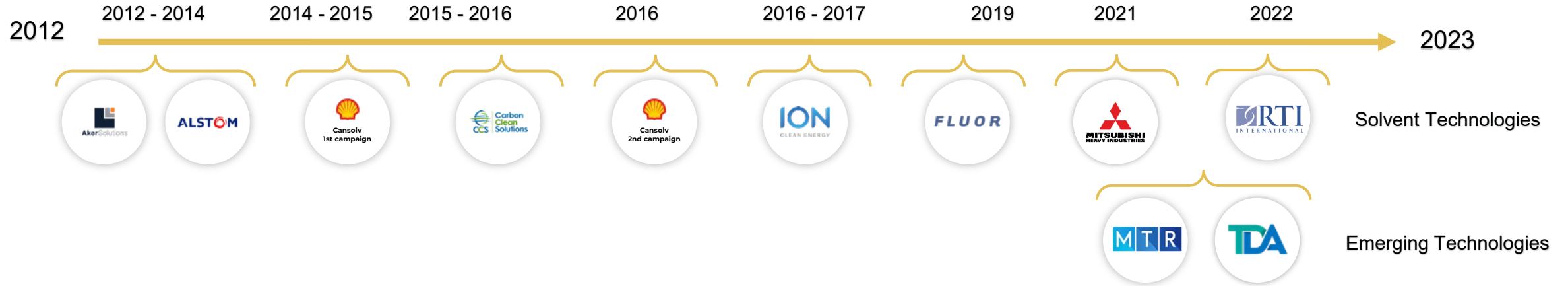
Open testing
> 14 000 hours



Advisory services

Conducted Test Campaigns

Proprietary Campaigns > 28,000 hrs



Open and Public Campaigns > 20, 000 hrs &
> 50 scientific publications



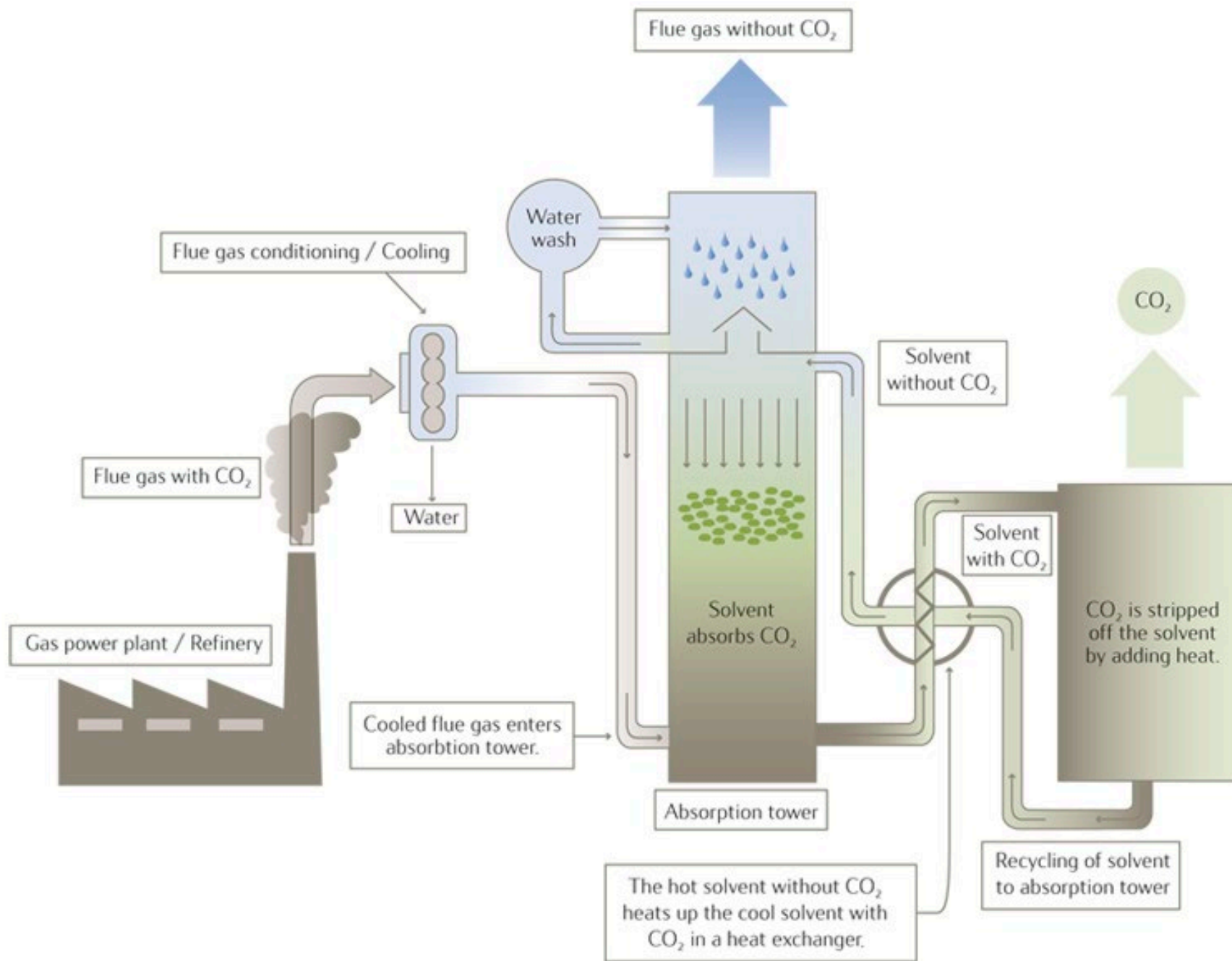
Our Advisory Services Clients



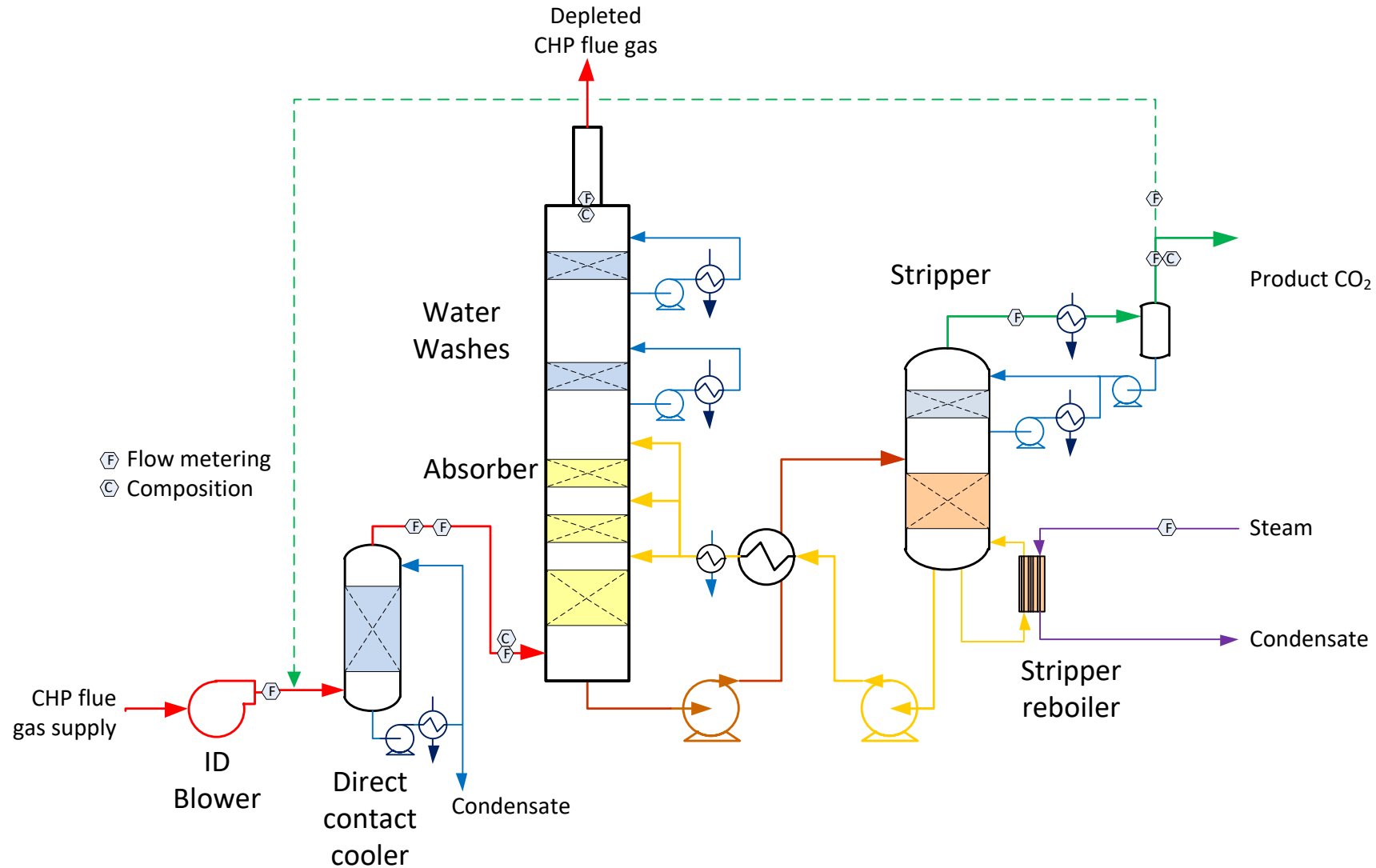
STIFTUNG ZENTRUM FÜR NACHHALTIGE
ABFALL- UND RESSOURCENNUTZUNG



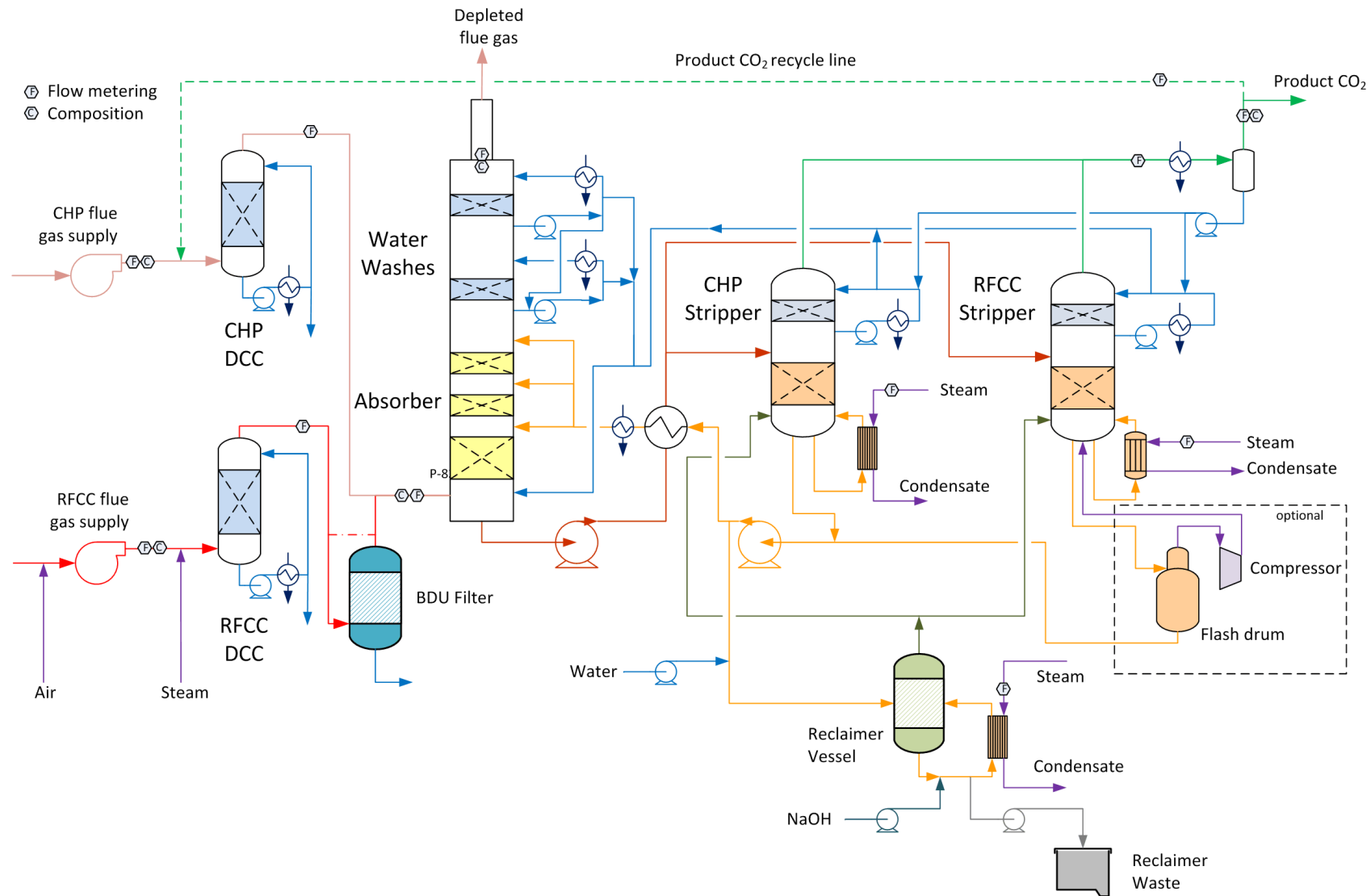


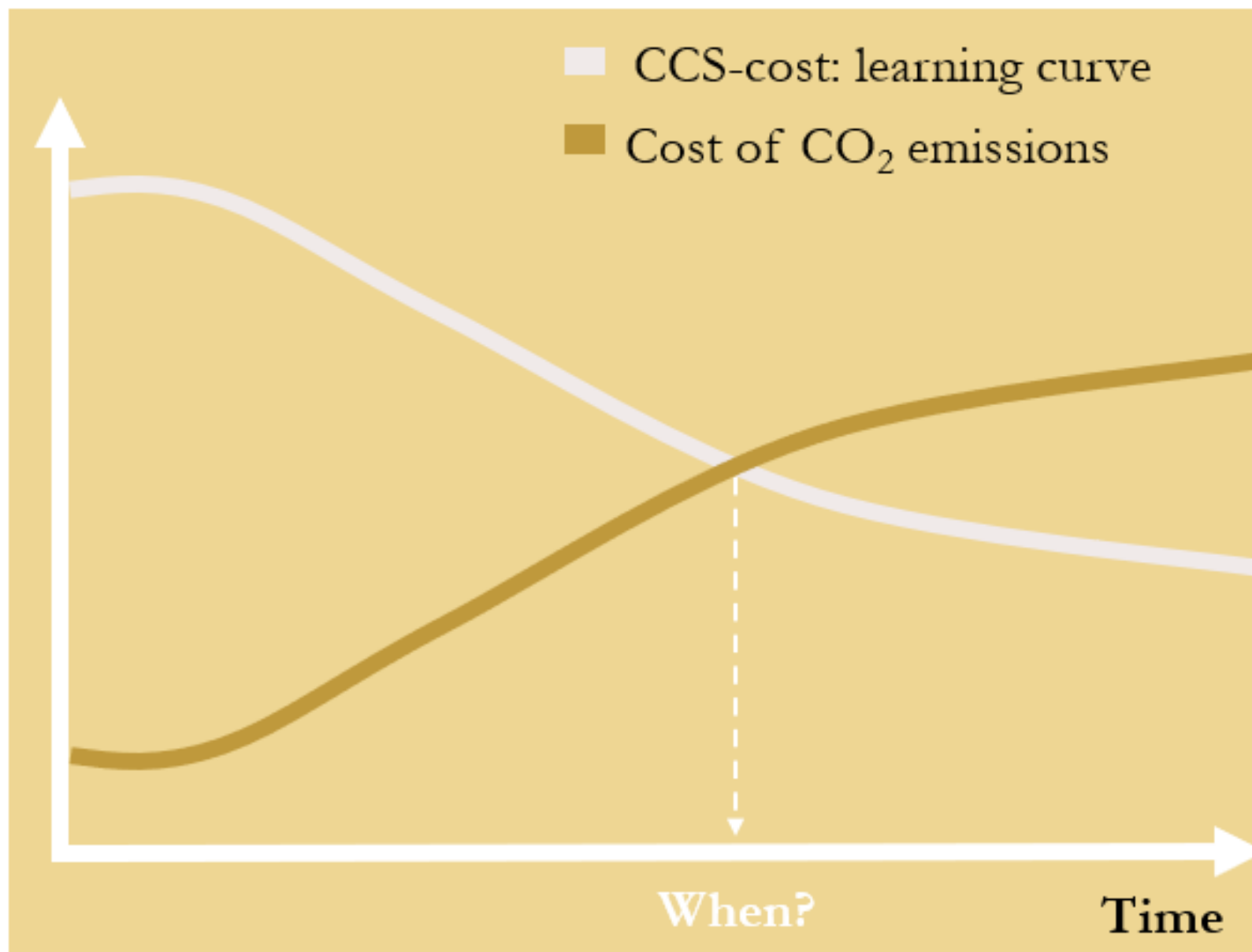


Amine plant – CHP flue gas

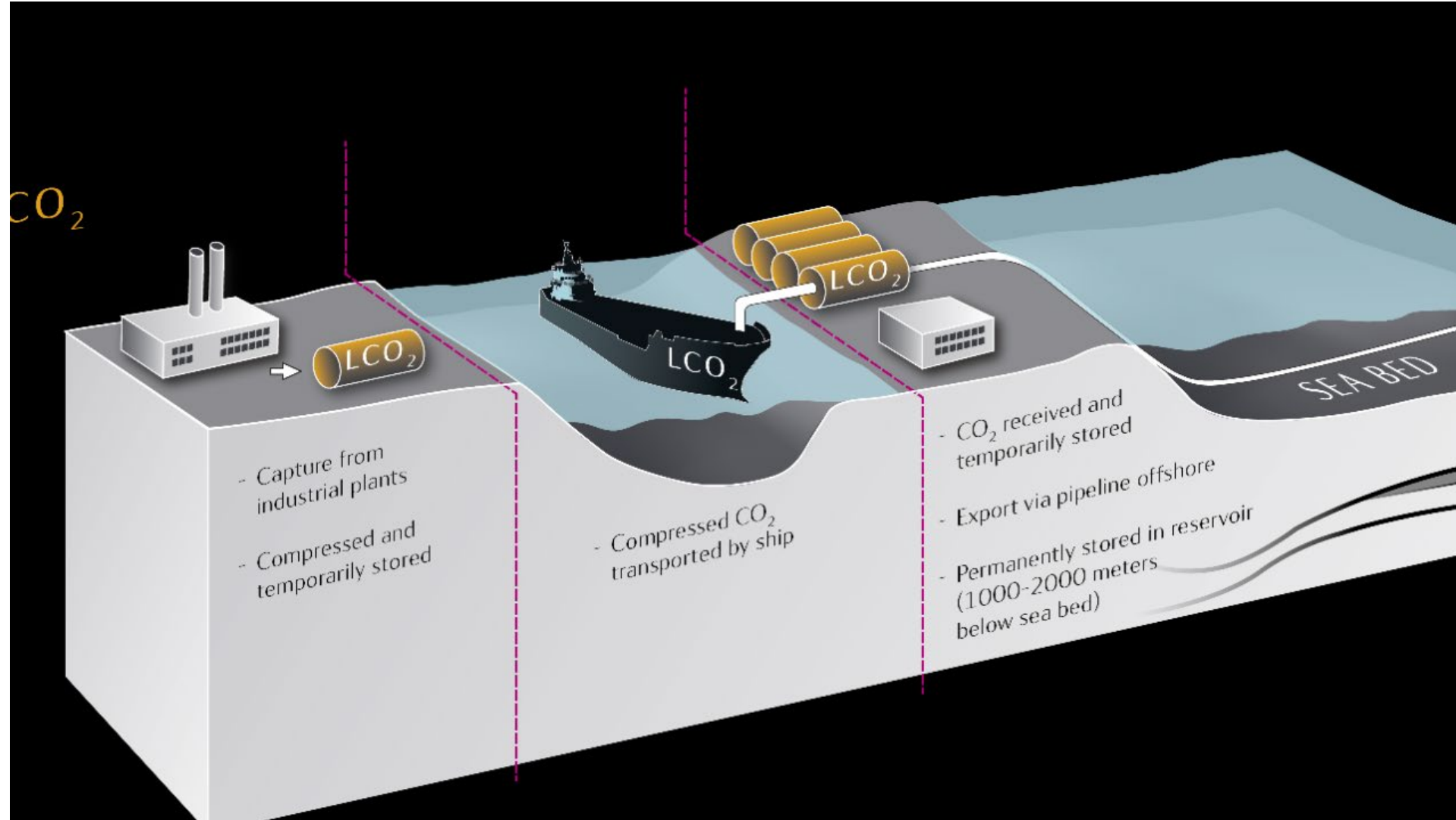


Amine plant – CHP and RFCC flue gas





Capture, transport and storage





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