

Bellona has evolved from field activist to active accelerator of solutions





Environmental solutions partner



Bellona 3.0

Solutions accelerator

Bellona 1.0

Finding the barrels of toxic/ radioactive waste



The global warming clock is ticking – Do not let 'perfect' be the enemy of 'good enough'

AVAILABLE TODAY Commercial solutions for CO2 capture, transport and storage

THE TECHNOLOGIES will improve, but not enough to wait until it is almost too late to use them

PUBLIC ACCEPTANCE HAS EVOLVED. Urgency is now a deciding factor, while just a few years ago it was not. Pragmatism has caught up with perfectionism.





The CCS Public Debate 2005 - 2014

- 2005: CCS Technology promoted for decarbonizing fossil power plants
- 2006-2010: critics say CCS does not exist, geological storage is not safe or secure, cross-border offshore storage is forbidden, trace releases of amines will degrade local environment and health



2010: CCS is expensive. How can society pay for it?

• **2012-14:** EU NER300 evaluates **14 proposals** for full-scale CCS projects aiming to store a total of 100+ million tons of CO2



NER300: Lessons learnt in attempting to secure CCS projects in Europe Monica Lupion*, Howard J. Herzog

Massachusetts Institute of Technology, Cambridge, MA 02139-04307, USA



The CCS Public Debate 2014 - 2020

- 2016: CCS proposals for industry emissions instead of power plants
- 2017: US extends tax credits for CCS projects, 35 50
 USD/ton CO2
- 2018: California Low Carbon Fuel Standard includes eligibility for CCS projects. Effective CO2 price of 240+ USD/ton for LCFS+CCS
- **2019:** CCS included in the EU Sustainable Finance Taxonomy of Solutions, X-border storage is now legally achievable, pilot plant proves amine trace releases can be eliminated
- 2020: EU Innovation Fund allocates 10 billion Euros available for inter alia CCS projects





The Bellona Environmental Foundation – From pollution to solution





- Established 1986
- Began advocacy for CCS in 1995
- Currently have CCS specialists in Oslo and Brussels
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