

Carbon Sequestration Leadership Forum

www.cslforum.org



**Messages and Recommendations
from the
CSLF Technical Group**

Trygve U. Riis

Technical Group Chairman

Messages from the Technical Group



Key Technical Group Program driver

Ministerial Communiqué of 2013 from the 5th CSLF Ministerial noted:

“The Ministers also stressed that the next seven years are critically important for creating the conditions for CCS to be ready for large-scale deployment by the end of the decade.”

Two years later, barriers are still in place that inhibit the accomplishment of this goal.

Messages from the Technical Group



Actions and response of TG

TG developed a Technology Roadmap Interim Report to assess technology readiness and current progress towards commercial implementation

What are the key factors affecting implementation: Technology, Policy, Economics?

Messages from the Technical Group



General observations from interim report

- 1st generation technology is ready.
- Barriers are economic and policy-related. Creates uncertainty for investment decisions not just for demos but R&D as well.
- 2nd generation technologies will drive down costs, increase reliability and operational performance. AM1
- Operational scale remains an issue – 1GT by 2030 is required

Slide 4

AM1

This should be referenced.

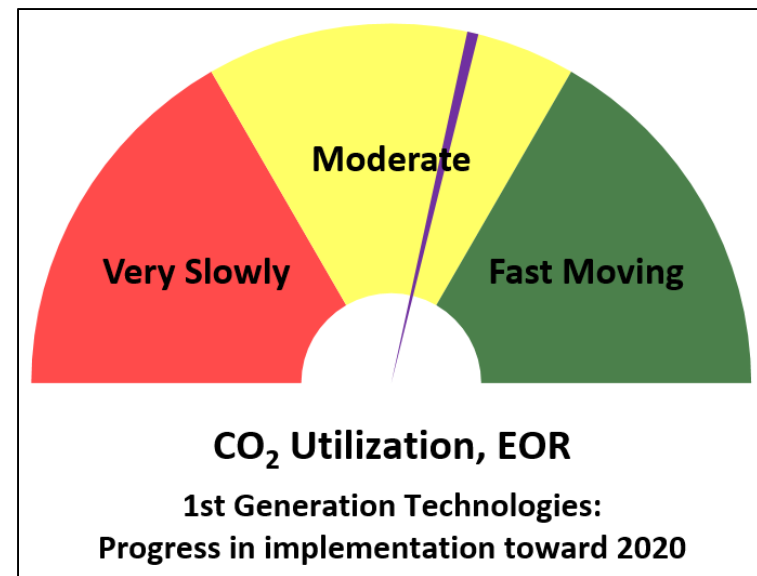
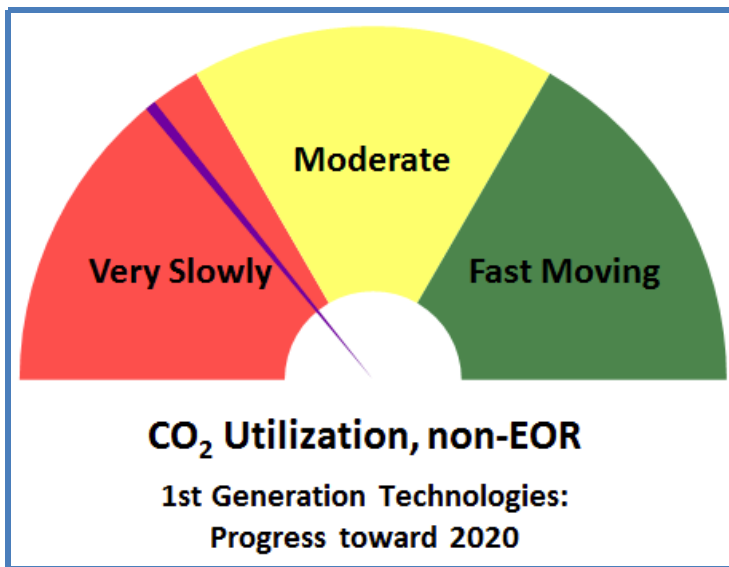
Ackiewicz, Mark, 10/22/2015

Messages from the Technical Group

Progress of technology needs



‘Slow to moderate’ progress toward implementation was perceived, in general, mainly because of existing policy and economic barriers.



Messages from the Technical Group



Recommendations from interim report

- **Technology**: Share best practices, encourage public-private partnerships, and *need more demonstration projects!*
- **Economics**: Need to work with stakeholders to drive down costs; government plays a critical role in incentivizing early projects.
- **Policy**: Needs to mature to meet goals and address barriers. Regulatory and policy frameworks must be in place.

Messages from the Technical Group



Recommended Actions

- CO₂ Utilization: For enhanced oil recovery (EOR): clarify policies and regulatory frameworks. Non-EOR options: Technical development and analyses to understand potential.
- Offshore Sub-Seabed Storage: Need to evaluate and assess capacity. Financial incentives to speed development. Knowledge-sharing.
- Reduce Cost of CO₂ Capture: Continue and sustain support, particularly pilot and demos. Continuity is critical.
- Emerging Economies: Engage in technical capacity building. This is a necessary precursor for large-scale CCS.

Technical Group Documents for 6th CSLF Ministerial Conference



- Technology Roadmap (TRM) Interim Report
- Report on Development of 2nd and 3rd Generation CO₂ Capture Technologies
- Key Messages from the CSLF “Lessons Learned from Large-Scale CCS” Workshop
- Messages and Recommendations from CSLF Technical Group



Carbon Sequestration Leadership Forum

www.cslforum.org



**Messages and Recommendations
from the
CSLF Technical Group**

Trygve Riis

Technical Group Chairman