The Next CSLF Technology Roadmap (TRM)

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Why a Technology Roadmap (TRM)?

• A TRM will contribute to a common understanding among CSLF and CEM CCUS (and Missions Innovation IC3?) members of:
  • The role of CCUS in decarbonizing society
  • The status of CCUS
  • Important and necessary developments to speed up implementation of CCUS

• A TRM will
  • Reach the wide membership of CSLF
  • Help countries developing national strategies on CCUS
  • Be an important tool in communicating the need and role of CCUS
Why update the 2017 CSLF TRM now?

• We are not on track to achieve targets from 2017 TRM

• Several new important reports, some with new scenarios, since 2017, including IPCC 1.5 °C, IEA Energy Technology Perspective 2020, IEA ETP Special Report on CCUS, World Energy Outlook
  • May need to re-visit targets

• The interest in CCUS has shifted from pure technology development to integration and utilisation issues
Possible content of the TRM revision

• Summary and recommendations (Targets may have to be revisited due new scenarios and reports, e.g. IEA ETP 2020 and IEA Special report on CCUS)
• Introduction (much as in 2017 TRM)
• Brief summary of the role of CCUS (e.g. from new scenarios)
• Brief status of CCUS
• Sections on issues (some touched upon in 2017 TRM but need strengthening)
  • Hydrogen and CCUS (blue hydrogen)
  • CCUS for industrial clusters and needed transport and storage infrastructure
  • Utilisation options, including techno-economic-environmental assessments
  • Negative emissions, including Direct Air Capture (DAC) and bio-energy w/CCUS (BECCS) and techno-economic-environmental assessments
  • Emerging and enabling technologies (robotis/autonomus systems, manufacturing, digital, VR/AR, sensors, manufacturing, materials)
Sources and organisation

• 2021 TRM will, as earlier versions, be based on existing knowledge

• Sources
  • The referenced new reports slide 3
  • Relevant national CCUS strategies
  • Other input from members
    • WE WILL BE ASKING FOR VOLUNTEERS FOR SECTIONS
  • Published papers, grey literature, webinars, web sites, etc

• Organisation:
  • Editorial committee: CSLF ExCo
  • Chief editor: Norway
Timeline

• 1\textsuperscript{st} list of content: 30 October 2020
• 2\textsuperscript{nd} list of content: 20 November 2020
  • Assign responsibilities
• 1\textsuperscript{st} draft: 12 March 2021
• 2\textsuperscript{nd} draft: 26 March 2021
• Final: 16 April 2021, for Clean Energy Ministerial