

REFERENCE	
Title:	DOE/NETL Carbon Dioxide Capture and Storage RD&D Roadmap
Date:	Dec 2010
Author:	US Department of Energy/National Energy Technology Laboratory
Funded by:	US Department of Energy
Hard copy reference:	
URL:	http://www.netl.doe.gov/File%20Library/Research/Carbon%20Seq/Reference%20Shelf/CCSRoadmap.pdf
Date accessed:	
Web Format:	pdf
IEA topics covered	CCS
Geographical focus:	United States
Brief Abstract:	Explores the use of CCS technologies in the US as means for carbon emission reduction.

OUTPUTS	
Short Report?	
Major report?	yes
Visualisations?	
Information held on dedicated software?	
- which package?	

ARCHITECTURE	
Timescales used:	Current-2030
Trends and drivers?	yes
- list	International research collaboration; stakeholder participation; cost reduction; monitoring practices
Enablers?	yes
- list	Need for collaborative research, especially with neighbouring countries; more engagement with community and range of stakeholders;
Performance measures/targets?	yes
- list areas	Innovations for existing plants; advanced integrated gasification combined cycle; advanced turbines; carbon sequestration; fuels; SECA fuel cells; advanced research; clean coal power initiative
Mapping of RD&D activities?	yes
Critical assessment of capabilities?	

PROCESS	
Methods used:	
- Desk study?	yes

- Consultation	
- Interviews?	
- Facilitated workshop(s)	
- Working groups/task force	yes
- Integrated Process	
Stakeholders engaged:	
- University based researchers	
- Other public sector researchers	
- Business – technology	
- Business – other	
- Government - energy	yes
- Government – SET	
- Government - other	
- NGOs	
No of people engaged:	
Budget (if known):	
Commitment to re-visit?	yes

ACTIONS IDENTIFIED	
List of actions?	yes
Actions listed according to timescale?	yes
Actions prioritised?	no
Sequencing/dependencies identified?	no
Responsibility for actions identified?	no
Types of actions identified:	
- Basic research?	yes
- list areas	Best practices manual for site selection, characterisation, operational and closure practices; computational methods
- Applied research?	yes
- list areas	Coal/biomass co-feed pump assessment and testing;
- Development & demonstration	yes
- list areas?	Carbon sequestration; proof-of-concept tests of warm gas cleanup integrated with advanced CC technology at commercial scale; full-scale demonstration of advanced oxy-combo and post-combo capture technologies;
- Other types of action?	Clean Coal Power Initiative
- list other types	

This Roadmap Characterisation was compiled by Samantha Quinn of the University of Edinburgh in April 2014

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