

<b>REFERENCE</b>	
<b>Title:</b>	Canada's CO <sub>2</sub> Capture and Storage Technology Roadmap
<b>Date:</b>	March 2006
<b>Author:</b>	Mitchell, B & Van Ham, J.
<b>Funded by:</b>	Industry Canada & Natural Resources Canada, also 17 others
<b>Hard copy reference:</b>	
<b>URL:</b>	<a href="http://www.nrcan.gc.ca/es/etb/cetc/combustion/co2trm/">http://www.nrcan.gc.ca/es/etb/cetc/combustion/co2trm/</a>
<b>Date accessed:</b>	11 August 2006
<b>Web Format:</b>	pdf
<b>IEA topics covered</b>	
<b>Geographical focus:</b>	Canada
<b>Brief Abstract:</b>	CCS enables increased energy usage with decreased emissions for Canada and world. Current technology is reviewed, with global and Canadian applications. Specific technological needs are identified with critical next steps and champions identified. Action is required today.

<b>OUTPUTS</b>	
<b>Short Report?</b>	No
<b>Major report?</b>	Yes
<b>Visualisations?</b>	No, text-heavy.
<b>Information held on dedicated software?</b>	No
<b>- which package?</b>	NA

<b>ARCHITECTURE</b>	
<b>Timescales used:</b>	<ul style="list-style-type: none"> <li>• Short term to 2010</li> <li>• Medium-term to 2015</li> <li>• Long-term to 2020+</li> </ul>
<b>Trends and drivers?</b>	
<b>- list</b>	
<b>Enablers?</b>	
<b>- list</b>	
<b>Performance measures/targets?</b>	Yes
<b>- list areas</b>	<ul style="list-style-type: none"> <li>• Pre-combustion systems</li> <li>• Solvent extraction</li> <li>• Novel sorbants</li> <li>• Membranes</li> <li>• Integrated gasification</li> <li>• Oxy-fuel combustion</li> </ul>

	<ul style="list-style-type: none"> <li>• Hybrid power cycles</li> <li>• Reservoir characterisation</li> <li>• Leakage paths</li> <li>• CO<sub>2</sub> properties</li> <li>• Leakage monitoring</li> <li>• Storage optimisation</li> <li>• Well integrity</li> <li>• Migration models</li> <li>• Cap-rock geochemistry and integrity</li> <li>• Seismic and non-seismic monitoring</li> <li>• Geochemical monitoring, soil CO<sub>2</sub></li> </ul>
Mapping of RD&D activities?	No
Critical assessment of capabilities?	No

<b>PROCESS</b>	
<b>Methods used:</b>	
- Desk study?	Yes
- Consultation	Yes
- Interviews?	Unknown
- Facilitated workshop(s)	Yes, 2
- Working groups/task force	
- Integrated Process	Yes
<b>Stakeholders engaged:</b>	
University based researchers	Yes
Other public sector researchers	Yes
Business – technology	Yes
Business – other	Yes
Government - energy	Yes
Government – SET	Yes
Government - other	
NGOs	Yes
No of people engaged:	180
Budget (if known):	
Commitment to re-visit?	Yes, no time scale given

<b>ACTIONS IDENTIFIED</b>	
List of actions?	Yes
Actions listed according to timescale?	Yes
Actions prioritised?	No
Sequencing/dependencies identified?	No
Responsibility for actions identified?	No
<b>Types of actions identified:</b>	
- Basic research?	
- list areas	
- Applied research?	
- list areas	
- Development & demonstration	Yes
- list areas?	<ul style="list-style-type: none"> <li>• Pre-combustion systems</li> <li>• Solvent extraction</li> <li>• Novel sorbants</li> </ul>

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<p><b>- Other types of action?</b></p>	
<p><b>- list other types</b></p>	