Research Opportunities for Application of Carbon Capture Technologies to California Natural Gas Power Plants

Thursday, April 16, 2015
10:00 a.m.
CALIFORNIA ENERGY COMMISSION
1516 Ninth Street
Hearing Room A
Sacramento, California

Purpose: California Energy Commission staff will conduct a workshop to discuss the research opportunities for carbon capture with emerging technologies on natural gas power plants (California's largest category of point source emissions of carbon dioxide) and its potential role in meeting the state's greenhouse gas reduction goals.

Agenda

WESTCARB I Evaluation S	A INTRODUCTION NGCC-CCS Engineering-Economic	Mike Gravely, California Energy Commission
Evaluation S	NGCC-CCS Engineering-Economic	California Energy Commission
Evaluation S	NGCC-CCS Engineering-Economic	
l l		CB&I Speaker Team
	tudy Review (Post-Combustion Advanced	
Amine Captu		
	Capture Technology Screening	
I	gn Parameters	
	and Performance Impacts	
	ways for a Pilot-Scale Demonstration	
☐ Stud	y Q&A	
5001 11000 1	200 Fundamenton Francisco Final Call	Des Dillon, EPRI
	CCS Engineering-Economic Evaluation	Des Billott, Et Ki
Review (Pos	t-Combustion Advanced Amine Capture)	
II S Departs	nent of Energy, Office of Fossil Energy,	John Litynski, DOE
CO ₂ Capture		, ,
CO ₂ capture	Trogram	
Internationa	Il Activities on NGCC-CCS	Elizabeth Burton, Global CCS
		Institute
12:30 p.m. –	LUNCH	
1:30 p.m.		_
Types of Em	erging CO ₂ Capture Technologies	Brice Freeman, Membrane
		Technology Research, Inc.
Bairrad Calk 7	Tank mala must four CO2 Countries from Pourse	Indian Investor CDI
Plants	echnology for CO2 Capture from Power	Indira Jayaweera, SRI International
Flairts		International
Membrane-	Based CO ₂ Capture System with Selective	Tim Merkel, Brice Freeman,
	Recirculation	Membrane Technology
		Research, Inc.
Post-Combu	stion CO ₂ Capture using PEEK Hollow	Shiguang Li, GTI
	rane Contactor Process	
NET Power S	Semi-Closed Brayton Cycle Oxy-	Walker Dimmig, NET Power

	Combustion Technology Using a Supercritical CO₂ Working Fluid	
	Open Discussion and Presentations from attendees on emerging CO ₂ capture technologies that are not on the agenda	All Participants
	(Note: anyone desiring to provide a presentation must contact Bryan Lee at (916) 327-1414 or by email at Bryan.Lee@energy.ca.gov by noon April 15, 2015 to be added to the agenda in this time period)	
	Options for Future Research Efforts with CEC and CO ₂	Mike Gravely,
	Capture Technology Providers	California Energy Commission
4:30 p.m.	CLOSING	Mike Gravely,
	 Next Steps and Closing Remarks 	California Energy Commission