

Reduced Cost

\$100+ /tonne



~50% Reduction

Reduced Energy Penalty

30+% Penalty



~20% Penalty

Program Activity

180+ Projects



15 Technologies Tested at Pilot Scale

Technologies Tested at Pilot Scale

TECHNOLOGY HIGHLIGHTS	Innovation Pathways			PRINCIPAL DEVELOPER
POST-COMBUSTION	Materials	Processes	Equipment	
Imbedded Amine Sorbent*	■	■		ADA-ES
Water-lean Amine Solvent	■	■		Fluor
Hybrid Solvent/Membrane*	■	■	■	Gas Technology Institute
Amino-silicone Solvent*	■			General Electric Company
Water-lean Amine/Organic Solvent Mixture*†	■			ION Clean Energy
Advanced Amine Solvent Process*	■	■		Linde/BASF
Advanced Membrane Process*	■	■		MTR
Nozzle-based Solvent Contactor*			■	Neumann Systems Group
Mixed Salt Solvent Process	■	■		SRI International
Carbon-based Sorbent*	■			SRI International
Alkalized Alumina Sorbent*	■	■		TDA Research
Optimized Amine Solvent Process*	■	■	■	University of Kentucky
Piperazine Solvent/Flash Stripper*	■		■	URS/University of Texas
PRE-COMBUSTION	Materials	Processes	Equipment	
Ammonium Carbonate/Bicarbonate Solvent*	■			SRI International
Integrated Sorbent Process*	■			TDA Research

* Project Completed

† Large Pilot