Projects selected to receive DOE funding to develop pre-combustion carbon capture technologies:

- **University of Minnesota - $793,775 (Minneapolis, MN)**—This project aims to develop molecular sieve membrane films for diffusion of hydrogen molecules from synthesis gas mixtures.

- **Pall Corp. - $1.2M (Cortland, NY)** —Pall Corporation will leverage its proprietary membrane fabrication technology to screen a large number of palladium (Pd)-alloys for use in membranes for separating hydrogen from synthesis gas mixtures.

- **Arizona State University - $656,316 (Tempe, AZ**) —Researchers at Arizona State will integrate the water-gas-shift reaction with a CO_2 selective membrane to separate CO_2 from shifted synthesis gas.

- **SRI International - $1.9M (Menlo Park, CA)**—SRI will use solvents to capture high-pressure CO_2 at lower solvent cost and with an efficient regeneration process.

- **TDA Research, Inc. - $2M (Wheat Ridge, CO)**—TDA will develop novel mesoporous carbon to remove CO_2 via physical absorption.

- **URS Group – $1.9M (Austin, TX)** —URS Group will combine modeling and experiments to tailor sorbents for optimum CO_2 capture.

- **Gas Technology Institute - $999,607 (Des Plaines, IL)**—GTI will couple an engineered plastic contactor with a solvent to potentially achieve 70% capital cost reduction in CO2 capture.

- **Membrane and Technology and Research, Inc. - $952,764 (Menlo Park, CA)** —Membrane and Technology Research will develop a novel polymer membrane for the separation of H_2 from synthesis gas.

- **New Jersey Institute of Technology - $805,819** (**Newark, NJ)**— Researchers propose a pressure swing absorption approach to capture CO_2.