Cross-Cutting Strategic Research Areas

Goal 6: Basic Rearch		Goal 1: Energy End Use				Goal 2: Energy Supply					Goal 3: Capture & Sequestration				Goal 5
Fundamental Research Area	Strategic Research Area	Transportation	Buildings	Industry	Grid	Fossil	Hydrogen	Renewable	Nuclear	Fusion	Capture	Geo-Storage	Terrestrial Sequestration	Non-CO ₂ Gases	Measurement and Monitoring
Physical Sciences	Materials: High Temperature														
	Materials: Tailored Mechanical Chemical Properties														
	Materials: Tailored Electrical Magnetic Properties														
	Heat Transfer & Fluid Dynamics														
	Combustion				1										
	Chemistry (Electro, Thermo)														
	Chemistry (Photo, Radiation)														
	Membranes & Separations														
	Condensed Matter Physics														
	Nanosciences			_											
	Geosciences & Hydrology														
	Chemical Catalysis														
Biological Sciences	Bio-Catalysis		_												
	Plant and Microbial Genomics (Biotechnology)														
	Bio-Based & Bio Inspired Processing														
Environmental Sciences	Environmental Science														
	Atmospheric Science														
Advanced Scientific Computing	Computational Sciences (Models & Simulations)														
Fusion Sciences	Plasma Sciences														
Enabling Research	Strategic Research for Sensors & Instrumentation														

A strategic research area that is central to advancing the technology approach.

A strategic research area that is expected to contribute significantly to the technology approach.

A strategic research area that has the potential to contribute significantly to the technology approach.

A strategic research area that is not expected to contribute significantly to the technology approach.

Table 9-1. Cross-Cutting Strategic Research Areas