

THE PRESIDENT'S HYDROGEN FUEL INITIATIVE

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In his 2003 State of the Union address, President Bush launched the Hydrogen Fuel Initiative, "so that America can lead the world in developing clean hydrogen-powered automobiles". The elements of this Initiative involve research, development and demonstration activities on hydrogen production and delivery, hydrogen storage, fuel cells, technology validation, safety, codes/standards, and education. The DOE-OHFCIT goals and objectives for each of these aspects will be described. Research and development needs and opportunities in chemistry and materials science related to hydrogen production, storage, and fuel cells will be highlighted. The Hydrogen Fuel Initiative will provide the RD&D necessary or a decision in 2015 by U.S. industry to commercialize fuel-cell-powered vehicles.