

## Preface

The *Fuel Cell Technologies Program Multi-Year Research, Development, and Demonstration Plan (MYRD&D Plan)* describes the goals, objectives, technical targets, tasks, and schedules for all activities within the Fuel Cell Technologies Program (FCT Program), which is part of U.S. Department of Energy’s (DOE’s) Office of Energy Efficiency and Renewable Energy (EERE). The Fuel Cell Technologies Program (FCT Program) is also part of the DOE Hydrogen and Fuel Cells Program (the Program), which integrates hydrogen and fuel cell–related activities in the offices of Science, Fossil Energy, and Nuclear Energy. Detailed plans for hydrogen and fuel cell–related activities in the offices of Science and Fossil Energy can be found at [http://hydrogen.energy.gov/roadmaps\\_vision.html](http://hydrogen.energy.gov/roadmaps_vision.html); and an integrated plan for the DOE-wide hydrogen and fuel cell activities can be found at [http://hydrogen.energy.gov/pdfs/program\\_plan2011.pdf](http://hydrogen.energy.gov/pdfs/program_plan2011.pdf). Details on every project funded by the FCT Program can be found in the Program’s annual progress reports, which are available at: [http://www.hydrogen.energy.gov/annual\\_progress.html](http://www.hydrogen.energy.gov/annual_progress.html).

This edition of the *MYRD&D Plan* reflects a number of changes in the Department’s overall strategy for hydrogen and fuel cells, which have evolved since the previous edition, including:

- Reducing emphasis on a single “technology-readiness” milestone for light-duty vehicles and pursuing a vision of technology advancement that involves continuous improvement in many technology areas and for many applications, with new applications reaching technology readiness at different times. Technology and market success in several applications can enable a domestic supply base and pave the way for fuel cell electric vehicles in the longer term
- Adopting a technology-neutral approach toward fuel cell RD&D, with efforts focused on the most appropriate fuel cell technology for a given application
- Adopting a more comprehensive approach to market transformation—including expanded efforts to leverage the work of other DOE activities, state programs, and other federal agencies—to ensure that the early market successes of certain applications can have the most beneficial impact on the advancement of all hydrogen and fuel cell technologies and the industry as a whole

## Document Revision History

The *MYRD&D Plan* is a living document, which is revised periodically to reflect progress in the technologies, revisions to developmental timelines and targets, updates based on external reviews, and changes in the scope of the FCT Program. An initial draft was released in June 2003 and was reviewed by the National Research Council and the National Academy of Engineering, leading to the first edition, published in January 2005. Subsequent revisions to the *MYRD&D Plan* were made in 2007, 2009, and 2012. All revisions were conducted through a rigorous Change Control process as documented in the Systems Integration section.