Fuel Cells in the States

State and Regional Initiatives Working Group
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Fuel Cells 2000
Fuel Cells 2000 / BTI

- U.S. nonprofit organization
- Established in 1993
- Promotes fuel cells from public interest perspective.
- Supported by foundations, grants and contracts
- [www.fuelcells.org](http://www.fuelcells.org)
State and Regional Activism

- Critical support for industry
- Financing demonstrations and innovation
- Addressing planning and installation requirements
- Educating decision makers & public
- Leading where federal government can’t, hasn’t, won’t

Where the action is!
State Activities Report

- Activities in 47 states
- 234 pages
- Available on-line at www.fuelcells.org
- Searchable database in development
- Updated since April release – lots of positive feedback

State Activities That Promote Fuel Cells and Hydrogen Infrastructure Development

Breakthrough Technologies Institute, Inc.
Washington, DC

Updated June 2006
14 states have roadmaps, plans, reports or legislation.
3 states are developing roadmaps or plans.
18 states and DC have established standards for interconnection of fuel cells to the power grid.
18 states and DC allow net metering of fuel cells connected to the power grid.
15 states and D.C. allow the use of H2/fuel cells in meeting RPS requirement.
Public Agency Policies To Promote H2 Vehicles/Fuel Cells

13 states have rules that promote the use of government H2/fuel cell fleet vehicles or fuel cell power generation at state/municipal facilities.
16 states provide grants or loans for stationary fuel cells.
Tax Incentives and Rebates for Power Generation

13 states provide tax incentives or rebates for stationary fuel cells.
6 states offer grants/loans for H2 and fuel cell vehicles, 3 (NY, PA, MA) for H2 infrastructure.
15 states offer tax incentives for H2 and fuel cell vehicles, 5 (CO, CT, NJ, ND, VA) for H2 infrastructure.
27 states and D.C. support research parks/institutes, provide incubators/business assistance (marketing, legal, etc.), or offer grants/loans/tax incentives.
Regional Partnerships

ARRC/H2 Alliance
- Objective is to design and build the first viable prototype Hydrogen Fueling Station/Information Center in key locations worldwide.

FuelCell South
- Formed as an outgrowth of collaborative work between industry and researchers. Goal is to foster awareness and create a marketplace for fuel cells in the southeastern U.S.

Hydrogen Energy Center
- All-volunteer nonprofit working for renewable H2 economy through public education, advocacy, technology demonstration and job creation. Members primarily from New England area.
Regional Partnerships

**H2TEC**
- Effort to establish/expand H2 education (grade school through graduate level) and develop presentations/demonstrations for professional/non-technical audiences. Members include state agencies and universities from MD and VA.

**H2USA Centers**
- 4 H2USA Centers will be located in 3 states to educate students/govt. officials/public about H2 and fuel cells. Project partners are California Energy Commission, NYSERDA and University of Central Fla.

**HyTEC**
- Formed by the U of SC, U of Fla, U of Ga and NC A&T State University to produce curriculum materials/offer technology demonstrations about H2 and fuel cells.
Regional Partnerships

**Mid-Atlantic Hydrogen Coalition**
- Formed to promote deployment of H2 energy/fuel cell technologies in the Mid-Atlantic region. Facilitating network of H2 refueling stations along highway I-95 between Richmond and NYC.

**Northeast Hydrogen Alliance**
- Project of the Center for Economic and Environmental Partnership. Mission to advance collaborative development and deployment of H2 energy infrastructure in the northeast U.S.

**Public Fuel Cell Alliance**
Regional Partnerships

Southern Fuel Cell Coalition
- Nonprofit, member-based consortium formed to supplement individual southern states’ initiatives to develop H2/fuel cell technologies.

Upper Midwest Hydrogen Initiative
- Regional, public-private H2 partnership serving IA, Manitoba, MN, ND, SD and WI. Emphasis on renewable and carbon-neutral hydrogen production and delivery, including development of Upper Midwest H2 refueling network.
In process of converting state report (and other Fuel Cells 2000/DOE resources) into searchable database

Will include all state activity – policy, regulations, incentives, and stationary, vehicle and hydrogen fueling station demonstrations

Target date – July 20, 2006 (USFCC Congressional Expo)