

The Resources of the South: Hydrogen and Fuel Cells

GenerationFC2006
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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



State Fuel Cell and Hydrogen Policy and Demonstration Database

Find Activity :: Fuel Cell States Web - Microsoft Internet Explorer

Address: <http://www.fuelcells.org/dbs/>

State Fuel Cell and Hydrogen Policy and Demonstration Database


Brought to you by: www.fuelcells.org DOE Hydrogen Program

Oct. 25, 2006

Find Activities View

Activity Search:


Step 1. Select a State:



Instructions
Make a selection by clicking the state on the map (selected states will turn yellow).
You can select more than one state for a search.
To de-select a state, click the state a second time.
If you do not select any states, search will include all of the United States.

Find Activity :: Fuel Cell States Web - Microsoft Internet Explorer

Address: <http://www.fuelcells.org/dbs/>



Select All

Step 2. I want to view information on:

Demonstrations Policies (to search for both, leave blank)

For

H2/FC Vehicles
 Stationary Fuel Cells/Power Generation
 H2 Fueling Stations

Search Clear

Advanced Search Options

Title:

Project:

Total Power:

Fuel Source:

Fuel Cell Type:

Fuel Cell Manufacturer:

Text Search:

Search Clear

State Fuel Cell and Hydrogen Policy and Demonstration Database

Includes:

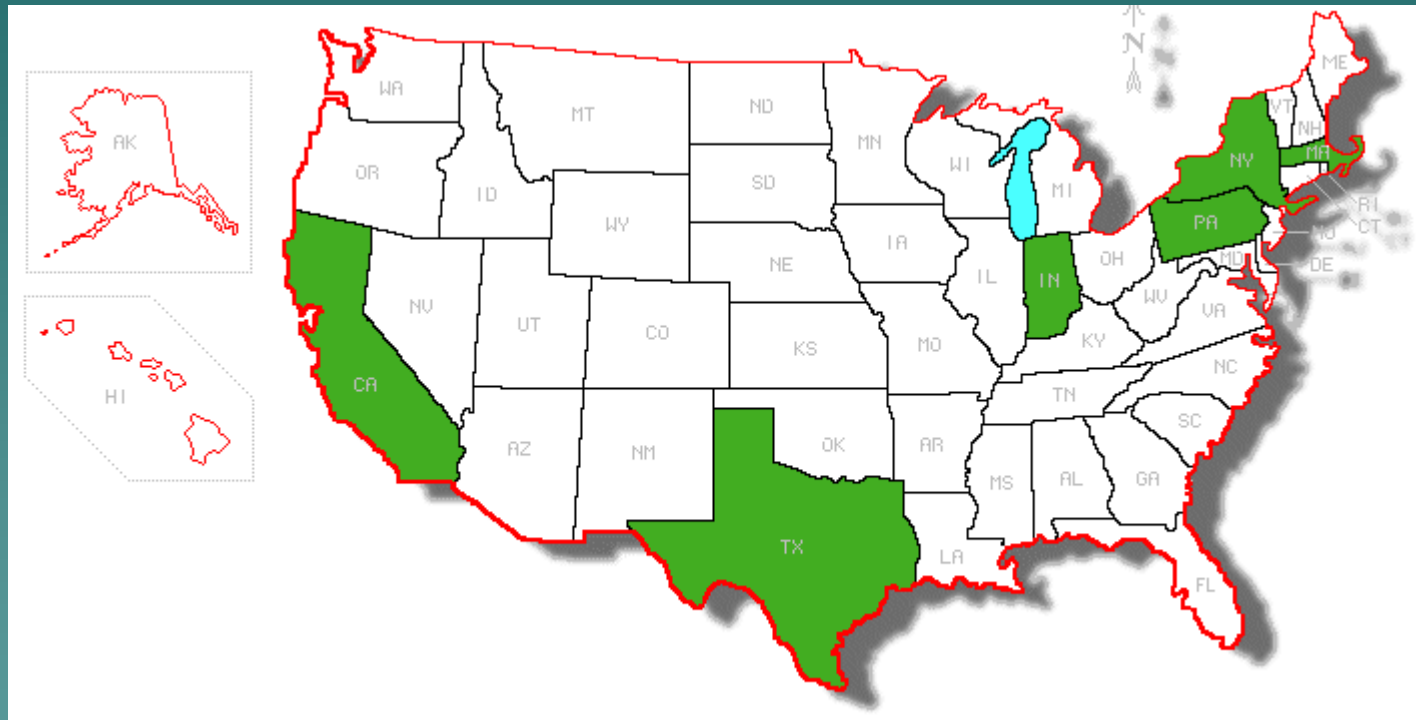
- All state policy, incentives, tax credits, grants, RPS, interconnection standards
- Stationary fuel cell installations
- Hydrogen fueling stations
- Vehicle demonstrations
- Based on recent comprehensive 240-page report but is searchable

Available at www.fuelcells.org

State Activities that Support Fuel Cell and Hydrogen Infrastructure Development

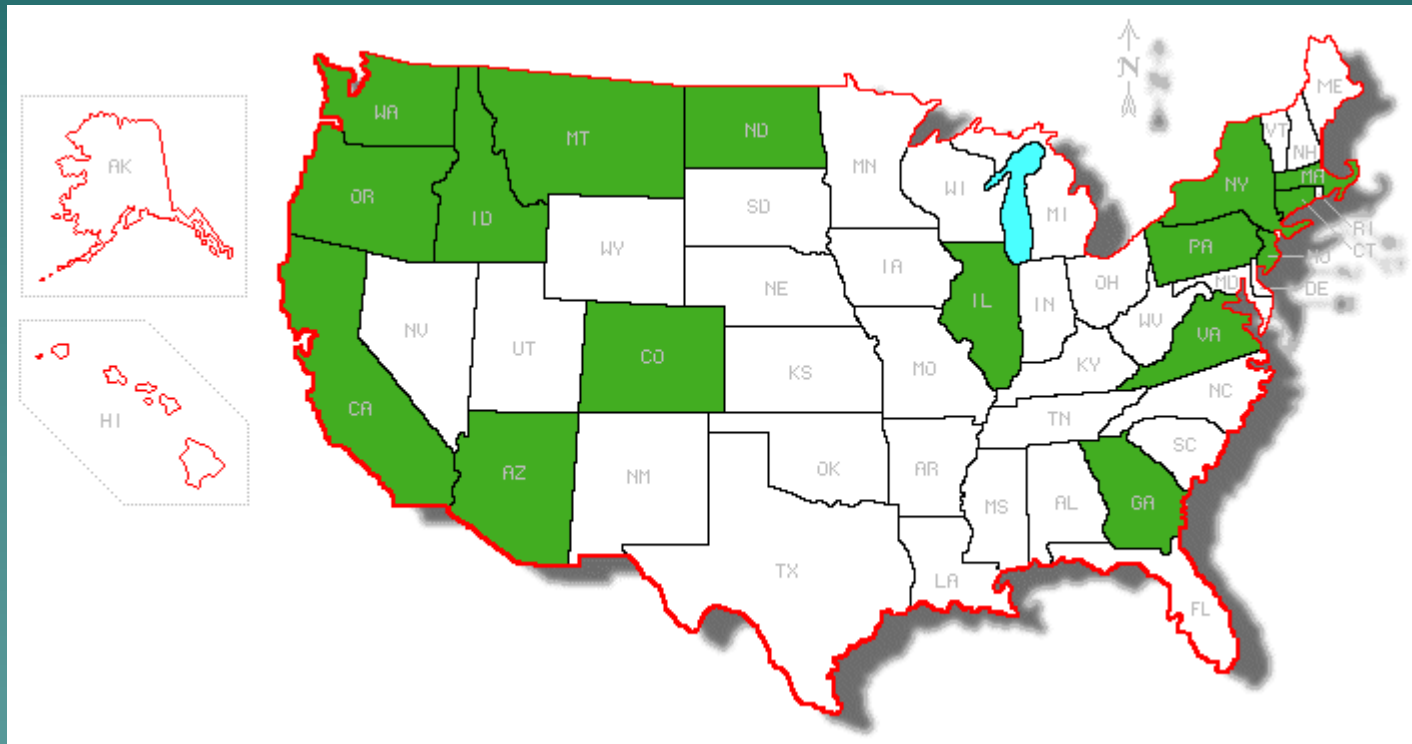
- ◆ 47 states plus D.C. have something going on in fuel cell/hydrogen arena
- ◆ Critical support for industry
- ◆ Financing demonstrations and innovation
- ◆ Addressing planning and installation requirements
- ◆ Educating decision makers & public
- ◆ Leading where federal government can't, hasn't, won't

Grants and Loans for Vehicles and Infrastructure



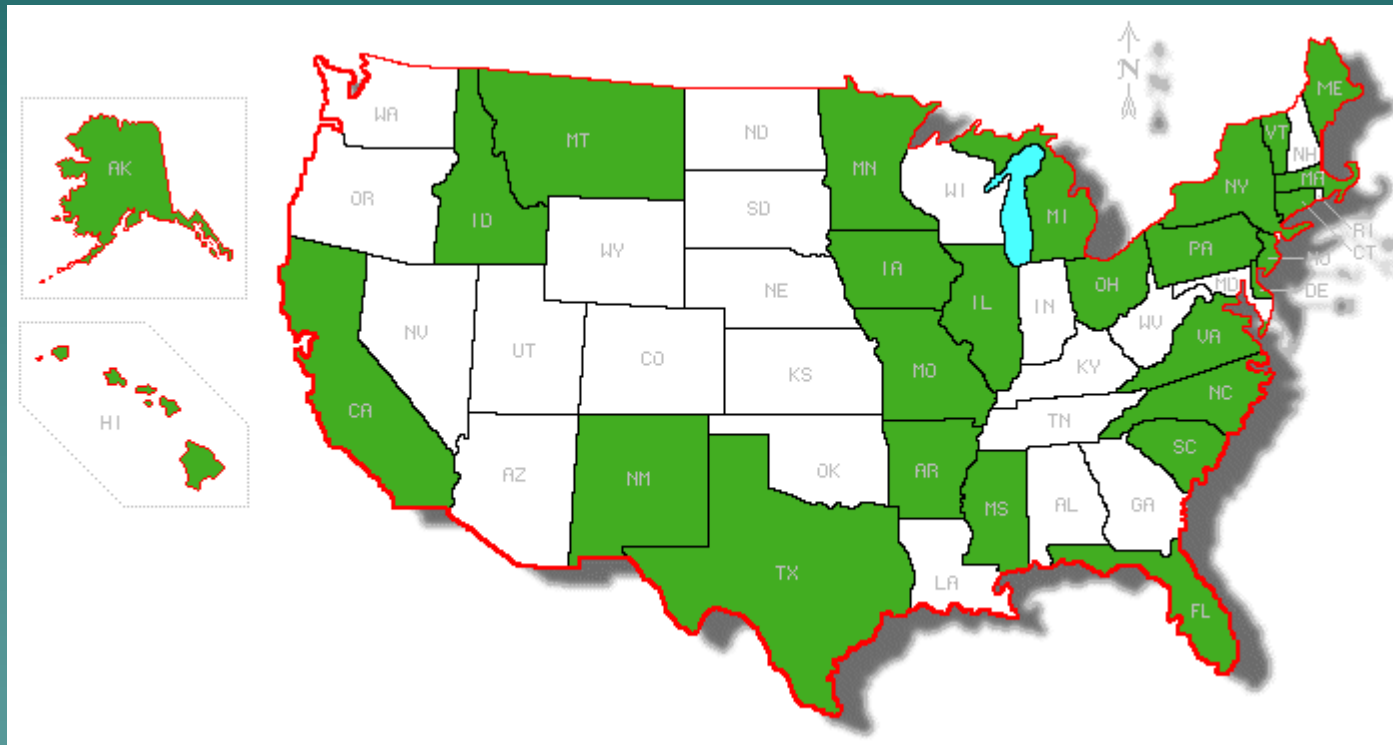
6 states offer grants/loans for H2 and fuel cell vehicles, 3 (NY, PA, MA) for H2 infrastructure.

Tax Incentives and Rebates for Vehicles and Infrastructure



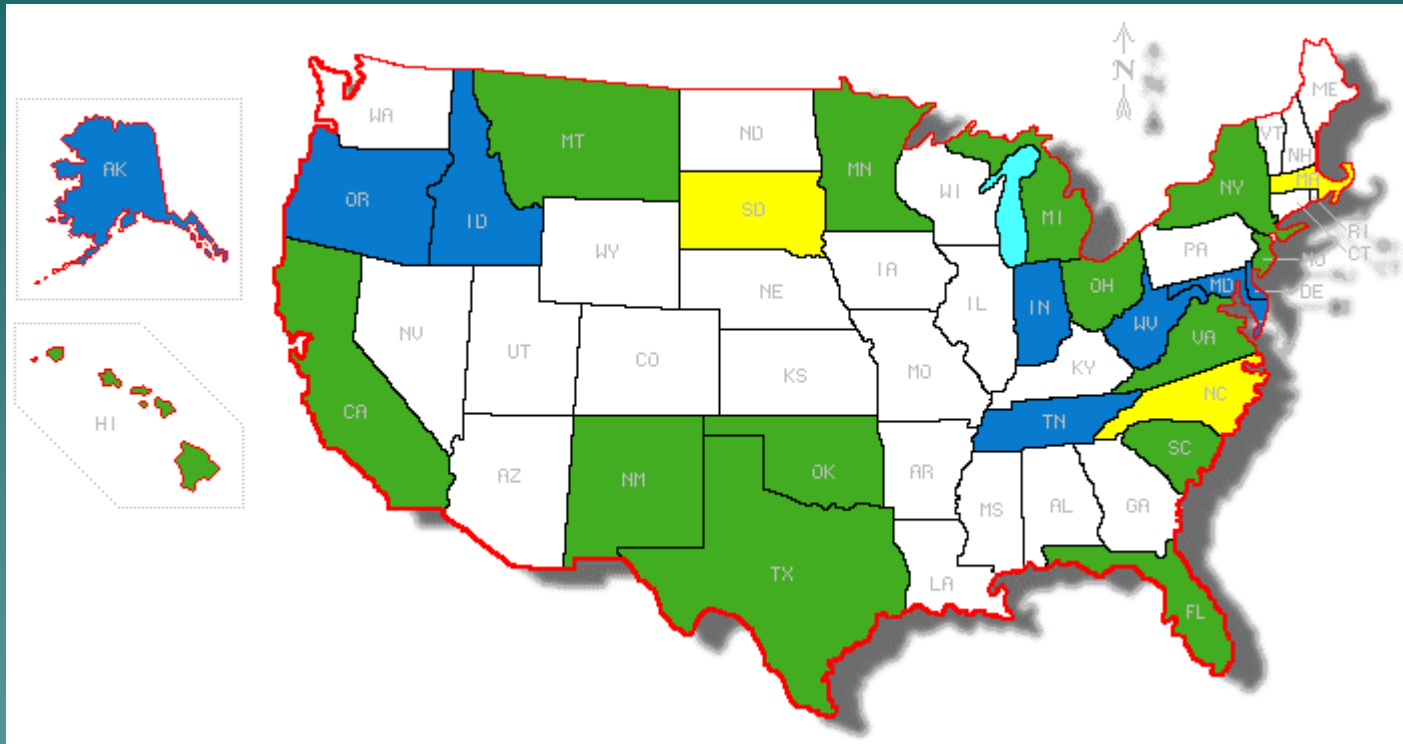
15 states offer tax incentives for H2 and fuel cell vehicles,
5 (CO, CT, NJ, ND, VA) for H2 infrastructure.

RD&D and Emerging Business Support for H2/Fuel Cell



27 states and D.C. support research parks/institutes, provide incubators/business assistance (marketing, legal, etc.), or offer grants/loans/tax incentives.

H2/FC Cell Strategies

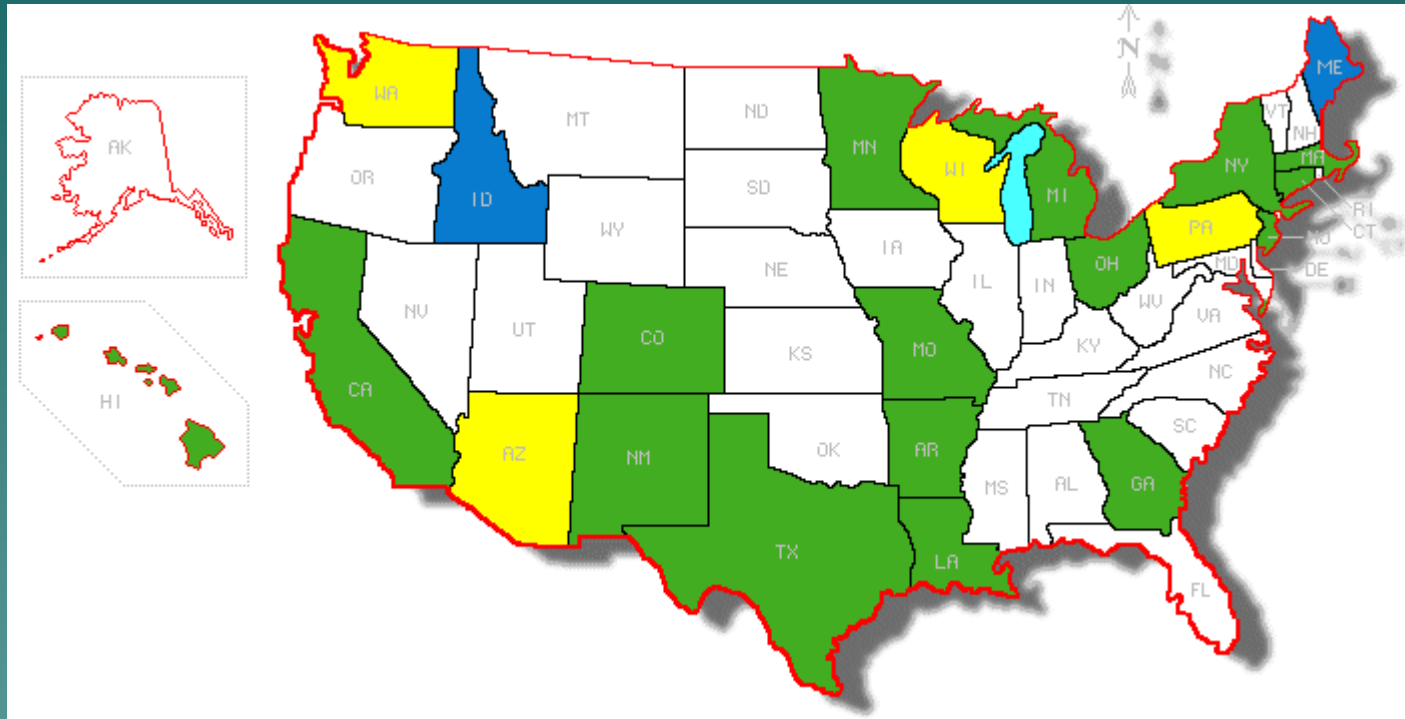


14 states (green) have H2/FC roadmaps, plans, reports or legislation.

3 states (yellow) are developing H2/FC plans.

8 other states and DC (blue) have alt. energy plans that include H2.

FC Interconnection Standards

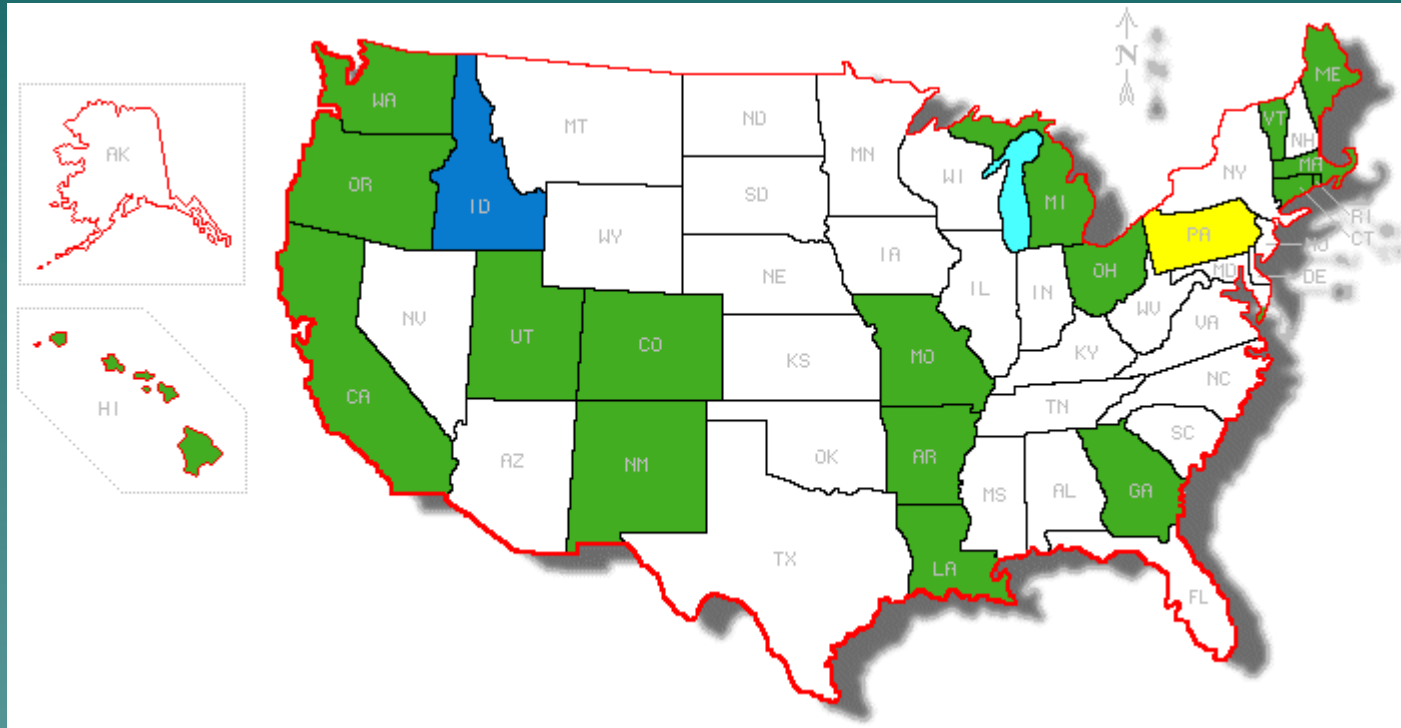


16 states and DC have standards to connect FC to the power grid.

FC interconnection standards pending in 4 states.

Utilities in 2 other states permit FC interconnection.

Net Metering of Fuel Cells

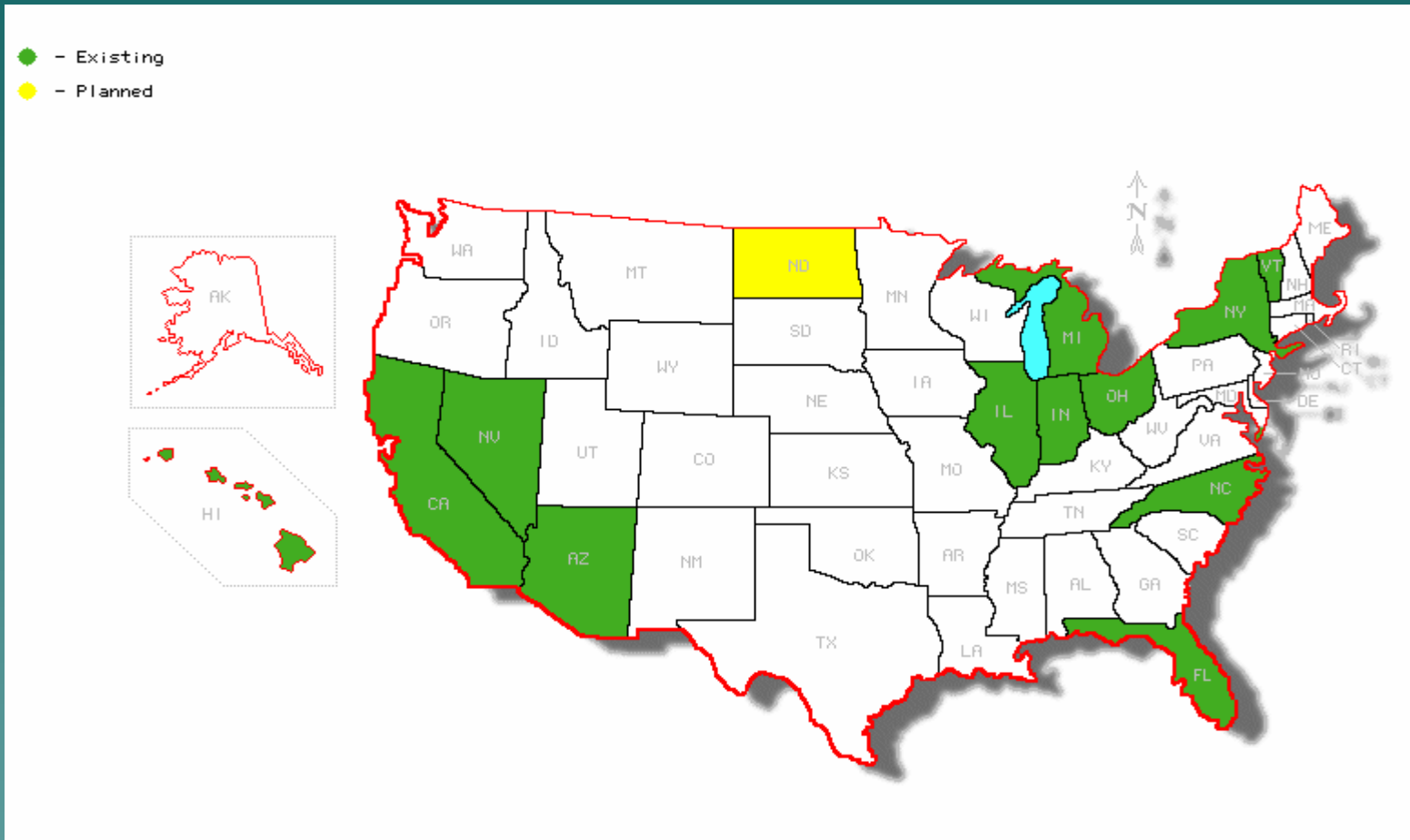


18 states and DC allow net metering of FCs connected to the power grid.

Rules are pending in PA.

Utilities in ID have net metering protocols.

H2 Refueling Stations



11 states and D.C. have H2 refueling stations.
CA, NY, FL, MI, ND and OH have more planned.

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

- ◆ Project of Clean Energy States Alliance. Mission to accelerate widespread adoption/ commercialization of fuel cells/H2 infrastructure through cooperation among North American/ European public funding agencies.

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.

More sprouting up all the time!



Thank you

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