FUEL CELLS 2000/BTI

- U.S. nonprofit organization
- Leading non-aligned source for fuel cell information since 1993
- Award-winning services
- Education through outreach/publications/website
- [www.fuelcells.org](http://www.fuelcells.org)
- [www.fuelcellinsider.org](http://www.fuelcellinsider.org) (blog)
STATE OF THE STATES 2011 REPORT

- Released June 2011 - follows up on state activity since last report (published April 2010)

- Provides detailed entries on recent policies/legislation, current and planned installations, deployments and projects, and recent funding/news made by industry and universities in state.

- Very powerful foreword by CT Governor Dannel Malloy

- Introduction and Appendices provide more information on state of industry in U.S.

http://www.fuelcells.org/statereport.html
TOP 5 STATES AND UP AND COMERS

- In last report, we chose CA, CT, NY, OH and SC as Top 5 Fuel Cell States
- This report finds these 5 still leaders in U.S.
- We also chose DE, FL, HI, MD and TX as Up and Coming states

- Each state chosen for a different reason – supportive policies, multiple installations and/or deployments, project funding, university research, business attraction
SINCE LAST REPORT...

- More than 50 MW of stationary fuel cells were either installed or purchased, most in CA but also NY, CT
- 1,500 fuel cell forklifts deployed or ordered, both repeat and new customers
- 30 fuel cell or hydrogen-powered buses either on the road or in numerous states, including AL, CA, CT, DE, IL, MA, MI, OH, SC, TN and TX.
- Big job growth with companies such as Bloom, ClearEdge, Bing Energy
- Supply chain growing!
NEW POLICIES

• Ohio implemented a Qualified Energy Project Tax Exemption for which fuel cell installations are eligible.

• California created the CAEATFA (California Alternative Energy and Advanced Transportation Financing Authority) program to finance alternatively-powered facilities and facilities used to develop and commercialize advanced transportation technologies. Fuel cell technology is eligible for funding.

• Louisiana initiated a renewable energy pilot program for which fuel cells are eligible.
MORE POLICIES

- Oklahoma instituted alternative fuel vehicle and infrastructure tax credits, and a renewable energy goal, that includes fuel cells and hydrogen.

- Maryland made fuel cell technology eligible for the state’s net metering policies.

- Hawaii’s state government, in partnership with 10 companies, agencies and universities, as well as GM, DOE and DOD, initiated the Hawaii Hydrogen Initiative (H2I) to make hydrogen-powered vehicles and a fueling infrastructure a reality in Hawaii by 2015.
FUNDING INITIATIVES

- CA’s **SGIP** – major factor in many of the CA installations and purchases – many use ADG from wastewater treatment plants and food/beverage processing. Bloom’s unit using redirected biogas also counts.

- CCEF has two programs - **On-Site Distributed Generation (OSDG) Program** ($12.86 million) and **Alpha Program**. CCEF’s **Project 150 program**, an initiative aimed at increasing renewable energy supply in CT by at least 150 MWs also funding numerous fuel cell installations in state.

- **NYSERDA** - $21.6 million was made available to **Renewable Portfolio Standard Customer-Sited Tier Fuel Cell Program**
LOTS OF REPEAT CUSTOMERS

Stationary fuel cells
- Coca-Cola
- Cox Communications
- Whole Foods
- Price Chopper

Forklifts
- Coca-Cola (CA, NC)
- Walmart
- Sysco (PA, TX, VA)
- Martin-Brower
OTHER FUEL CELLS 2000 RESOURCES

- Jobs Estimate (current U.S. ~3,600, supply chain ~7,000; total worldwide ~13,000, supply chain ~36,000 and growing!)
- Searchable State Fuel Cell and Hydrogen Database
BUSINESS CASE FOR FUEL CELLS

Profiles 38 nationally-recognized companies, including Coca-Cola, Staples, Walmart, Whole Foods, Hilton Hotels, Sysco and many more!

Companies in report have ordered, installed or deployed:

• more than 1,000 fuel cell forklifts;
• 58 stationary fuel cell systems totaling almost 15 MW of power;
• more than 600 fuel cell units at telecom sites.
• Another coming in Fall

THANK YOU

Fuel Cells 2000
1100 H Street, NW
Washington, DC 20005

www.fuelcells.org
www.fuelcellinsider.org
jennifer@fuelcells.org