Early Fuel Cell Market Deployments: ARRA and Combined (IAA, DLA, ARRA)

Quarter 1 2013
Composite Data Products – Deployment

May 09, 2013
Jennifer Kurtz, Sam Sprik, Chris Ainscough, Genevieve Saur, Matt Post, Mike Peters
CDP ARRA#02: Fuel Cell Units in Operation
Current and Projected Quantities

DOE ARRA¹ Funded Early Fuel Cell Markets: Units in Operation

- Stationary
- Material Handling Equipment
- Material Handling Equipment Retired
- Backup Power
- APU

1) American Recovery and Reinvestment Act
CDP ARRA#03: Early Fuel Cell Market Deployment Sites

Material Handling Equipment (8 Sites and 504 FC Units)
Backup Power (398 Sites and 820 FC Units)
Stationary (1 Sites and 2 FC Units)
APU (0 Sites and 0 FC Units)
DOE ARRA, DOE IAA, & DoD

Early Fuel Cell Market Deployments
Government/Industry Fuel Cell Units in Operation

Government Funded Early Fuel Cell Markets: Units In Operation

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Fund Sources Include: DOE ARRA, DOE IAA, DoD
Government/Industry Early Fuel Cell Market Deployment Sites

FC Unit Locations - Early Market Applications

- Material Handling Equipment (13 Sites and 618 FC Units)
- Backup Power (412 Sites and 847 FC Units)
- Stationary (1 Sites and 2 FC Units)
- APU (0 Sites and 0 FC Units)
- Bus (1 Sites and 1 FC Units)

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DOE ARRA & Combined Operation Quantities
List Quantities - FYI
ARRA Fuel Cell Units in Operation
Current and Projected Quantities

DOE ARRA¹ Funded Early Fuel Cell Markets: Units in Operation

1) American Recovery and Reinvestment Act

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Government Funded Fuel Cell Units in Operation: Current and Projected Quantities

Fund Sources Include: DOE ARRA, DOE IAA, DoD
CDP ARRA#03: Early Fuel Cell Market Deployment Sites with Numbers

State | Sites | Units
--- | --- | ---
Arizona | 16 | 42
California | 123 | 269
Colorado | 5 | 12
Connecticut | 28 | 45
Florida | 1 | 3
Georgia | 1 | 10
Illinois | 2 | 2
Indiana | 16 | 25
Kentucky | 4 | 11
Louisiana | 8 | 16
Maryland | 1 | 61
Massachusetts | 1 | 2
Michigan | 41 | 84
Mississippi | 2 | 4
Missouri | 1 | 35
New Jersey | 38 | 80
New York | 55 | 99
North Carolina | 3 | 44
Pennsylvania | 2 | 231
South Carolina | 1 | 25
Texas | 49 | 208
Utah | 9 | 18
Total | 407 | 1326

- **Material Handling Equipment** (8 Sites and 504 FC Units)
- **Backup Power** (398 Sites and 820 FC Units)
- **Stationary** (1 Sites and 2 FC Units)
- **APU** (0 Sites and 0 FC Units)
Combined Early Fuel Cell Market Deployment Sites with Numbers

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<tr>
<th>State</th>
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<th>Units</th>
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<td><strong>Total</strong></td>
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</table>

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- **Backup Power (412 Sites and 847 FC Units)**
- **Stationary (1 Sites and 2 FC Units)**
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