

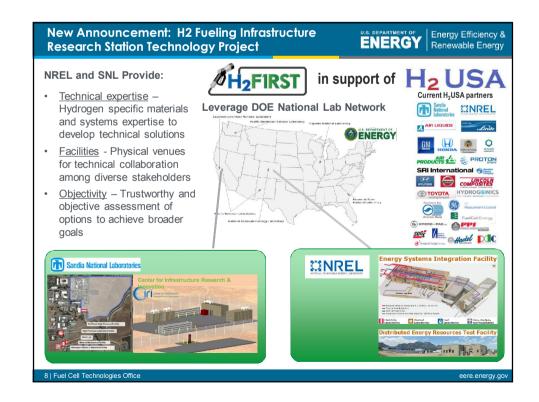
\$7M in New DOE-Funded Selections



- Demonstrate and Deploy Fuel Cell Hybrid Electric Medium-Duty Trucks
 - FedEx Express
 - Center for Transportation-Environment with United Parcel Service
- Demonstrate Hydrogen Bulk Delivery
 - Air Products & Chemicals with Structural Composites Industries
- Demonstrate Rooftop Fuel Cell Back-up Power Installations
 - Sprint Corporation

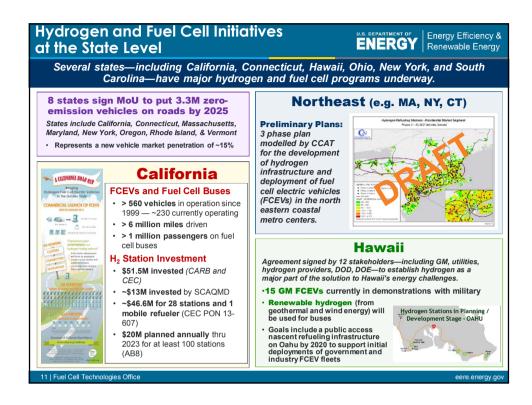
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Federal Policies Promoting Fuel ENERGY | Energy Efficiency & Renewable Energy Cells Some tax credits affecting fuel cells were expanded and a new act was proposed that can help facilitate federal deployments. 30% for qualified fuel cell property or \$3,000/kW of the fuel cell nameplate capacity (i.e., expected Investment Tax system output), whichever is less. Credit Equipment must be installed by Dec. 31, 2016. 10% credit for combined heat-and-power-system property Hydrogen Fuel 30% of cost, not to exceed \$30,000 Infrastructure Tax Consumers who purchase qualified residential Credit fueling equipment may receive a tax credit of up to \$1,000 Cash prizes to advance the commercial application of hydrogen energy technologies H-Prize \$1M, \$4M, and \$10M categories. Topic: Hydrogen Refueler (residential & commercial)

(Dollars in Thousands)	FY 2014	FY 2015 Request	(Dollars in Thousands)	FY 2014
Fuel Cell R&D	33,383	33,000	Basic Science	~\$25M
Hydrogen Fuel R&D	36,545	36,283	Fossil Energy,	~\$25M
Manufacturing R&D	3,000	3,000	SECA ARPA-E	~\$30M
Systems Analysis	3,000	3,000	Total	~\$80M
Technology Validation	6,000	6,000	iotai	ŞOUIVI
Safety, Codes and Standards	7,000	7,000	Total EV	l4 Budget:
Market Transformation	3,000	3,000	>\$172M	
NREL Site Wide Facility Support	1,000	1,700		
Total, Fuel Cell Technologies	92,928	92,983		



Future Plans - Summary



Continue to promote and strengthen R&D activities

- Hydrogen, fuel cells, safety, manufacturing, etc.
- Cost, performance, durability need to be addressed

Conduct strategic, selective demonstrations of innovative technologies

Industry cost share and potential to accelerate market transformation

Continue to conduct key analyses to guide RD&D and path forward

Life cycle cost; economic & environmental analyses, etc.

Leverage activities to maximize impact

- U.S. and global partnerships
- H2USA: Public-Private partnership to enable widespread commercialization of hydrogen vehicles in the United States
- NHTSA preparing to adopt Global Technical Regulation for FCEVs. Co-sponsors planning Phase 2 activities.

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Global Collaboration is Critical

ENERGY Energy Efficiency & Renewable Energy

To meet global fuel needs and reduce emissions, sustained and effective worldwide collaboration is critical.

"It is literally true that you can succeed best and quickest by helping others to succeed."

- Napoleon Hill, American Author 1883-1970



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Thank You

Sunita.Satyapal@ee.doe.gov

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