

## [NFPA Activities \(50, 853, 70\)](#)

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### Brief Synopsis of Presentation:

#### **Russell Hewett (NREL): NFPA Activities (NFPA 50, 853, 70)**

NREL participates in various NFPA code development efforts. Codes are developed through the consensus process, and current codes include:

- NFPA 50A Bulk Gaseous Hydrogen Systems
- NFPA 50B Bulk Liquid Hydrogen Systems
- NFPA 853 Stationary Fuel Cell Systems over 50kW
- NFPA 52 Compressed Natural Gas (CNG) Vehicular Fuel Systems

NFPA 52 applies to the design and installation of compressed natural gas (CNG) engine fuel systems on vehicles of all types, and is being expanded to include hydrogen for vehicles. NFPA 853 is to be expanded to cover small fuel cell applications (residential usage under 50 kW). Also, the 2002 edition of the National Electrical Code includes a new article, Article 692, that covers the electrical installation requirements for fuel cell systems, and NFPA is looking to develop a training program in NFPA hydrogen standards. NREL is working with NFPA to document hydrogen refueling facilities and providing technical support to NFPA within their hydrogen-related codes and standards development.