

# ***Job and Output Benefits of Stationary Fuel Cells (JOBS FC): An Economic Impact Tool Developed for USDOE***

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# ***What is JOBS FC?***

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- ▶ JOBS FC is a user friendly model that can be used to show the economic benefits of near- to mid-term fuel cell deployment for a variety of fuel cell applications and markets
  
- ▶ These estimates will enable your organization to quantify the economic advantages of fuel cells and communicate those benefits to community leaders, local policymakers and potential customers

# Example Scenarios

## ACME Fuel Cell Co.

- ▶ Wants to build a new facility capable of producing 20,000 fuel cells (5kW) per year
- ▶ Knowing employment is important to communities and local purchasing will help lower costs, wants to site the facility where local employment will be maximized

*Tool tells ACME how many jobs will be created*

## Green State Economic Development Corp.

- ▶ Wants to promote high tech industries in Green State
- ▶ Has already decided to bring in a fuel cell company, but wants to know which “type” will be best for Green State

***Tool permits analyst to compare effects of different “types” to determine which is best for Green State***

## U.S. Department of Energy

- ▶ Wants to compare alternative clean energy investments
- ▶ Already supporting R&D and deployment of different types of fuel cells in different markets, but wants to know which are likely to generate the most jobs

***Tool permits analyst to compare effects of different fuel cell types on state, regional and national economy***

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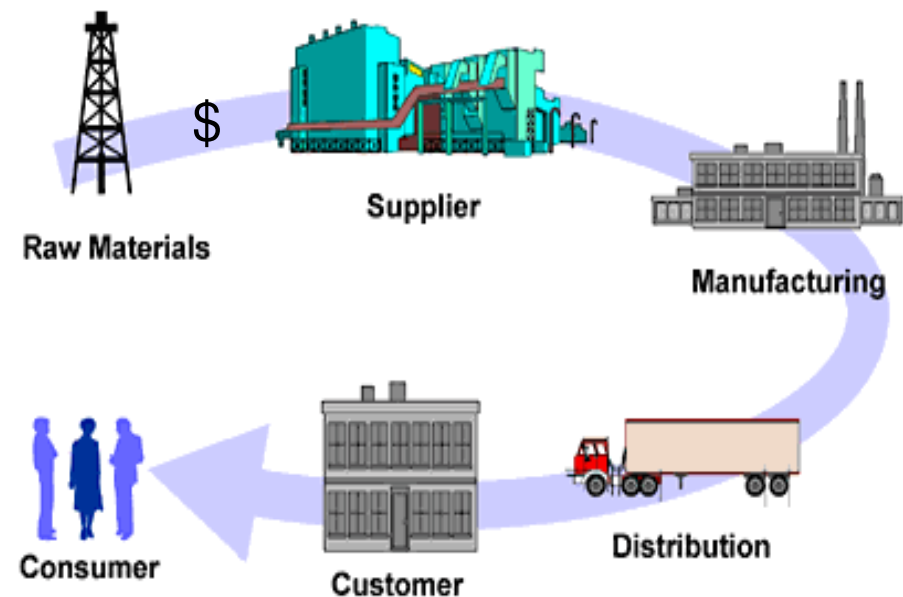
# ***Fuel Cell Applications and Markets***

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- ▶ JOBS FC supports analysis of several applications and markets:
  - Materials handling (Class 1, 2 and 3 forklifts)
  - Mission critical back-up power
    - Telecommunications towers, and
    - State and local emergency responders
  - Distributed prime power and combined heat & power (CHP)
    - Installations at hotels or data centers

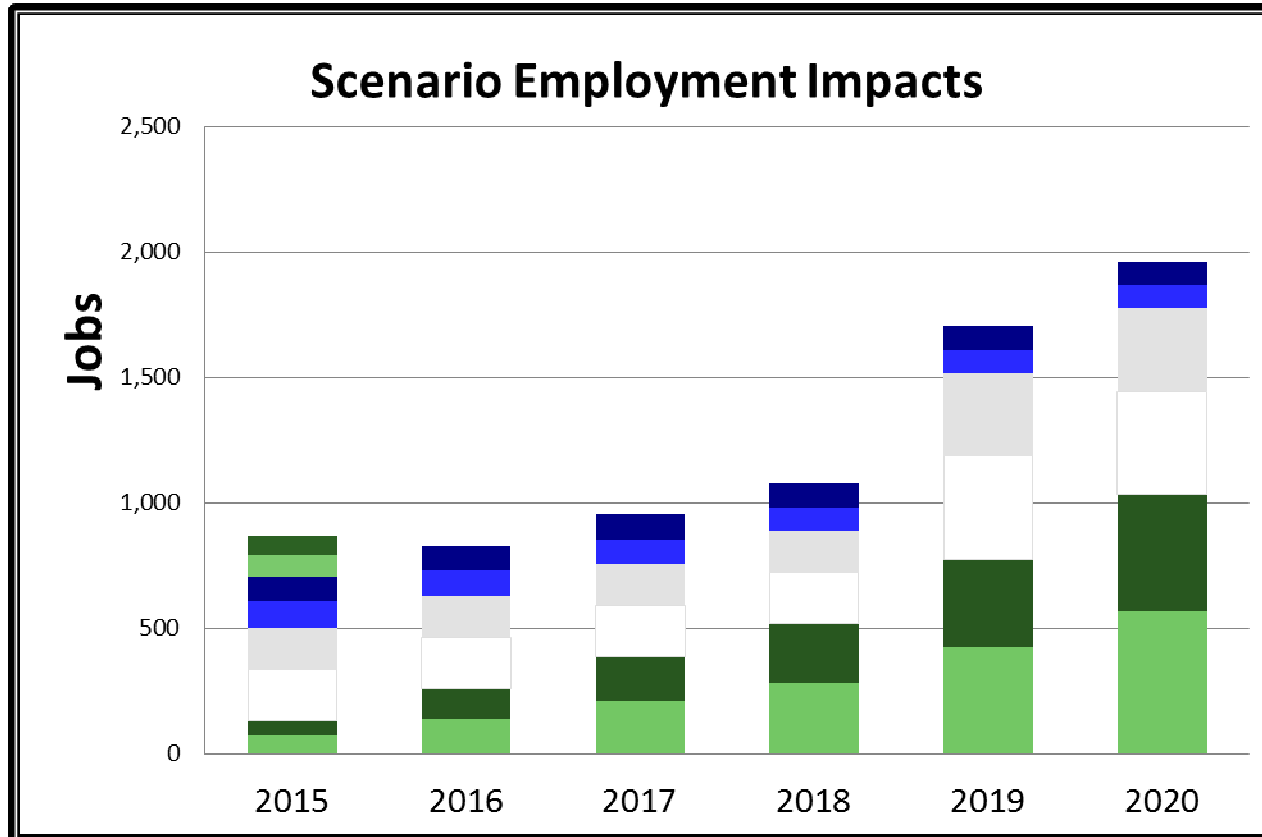
# How Does JOBS FC Work?

- ▶ The user specifies assumptions like application, market, fuel cell size, and a target number of fuel cells to be produced, imported and exported.\*
- ▶ The model calculates direct and indirect jobs created, wages and sales resulting from those assumptions

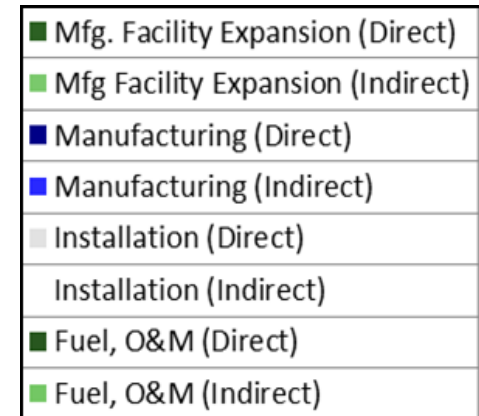


\*Advanced options are also available

# Example Results



- ▶ Indirect jobs typically exceed direct jobs
- ▶ Jobs for fuel cell installation, fueling and O&M exceed FC manufacturing jobs



# Questions?

- ▶ For more information, feel free to contact:  
Marianne Mintz at [mmintz@anl.gov](mailto:mmintz@anl.gov) or  
David Jarvis at [djarvis@rcfecon.com](mailto:djarvis@rcfecon.com)
- ▶ We hope to have an initial version available in Oct. and to add more functionality in 2012

Thank You!

