JEDI II: JOBS AND ECONOMIC DEVELOPMENT IMPACTS FROM COAL, NATURAL GAS, AND WIND POWER

Suzanne Tegen
National Renewable Energy Laboratory
Golden, Colorado

Marshall Goldberg
MRG & Associates
Nevada City, California

Michael Milligan, Consultant
National Renewable Energy Laboratory
Golden, Colorado

How does JEDI II work?

The user enters data specific to the new coal, gas, or wind plant:

- Year of installation
- Size of the project
- Location
- Cost ($/kW)
- Any other site-specific information

The more information the user provides, the more localized the results will be. When specific data are not available, the model uses default values.

Features

- JEDI II is for all levels of users — no experience with economic modeling or spreadsheets is necessary.
- JEDI II comes with on-line instructions.
- Default data is available if users do not have area-specific information.
- The output from JEDI II provides detailed construction and O&M expenditure information, as well as the regional analyses require additional specific analyses. County or regional analyses require additional multipliers.

Approach

- Using economic multipliers, JEDI II measures the potential employment (jobs and earnings) and economic development impacts (output) from new power plants by calculating the dollar flow from construction and annual operations.
- In its default form, JEDI II conducts state-specific analyses. County or regional analyses require additional multipliers.

Sample Input Screen

This is just one example of the input screens JEDI II calculates for new power plants.

Sample Output Screen

This poster is intended for AWEA

Please see the paper accompanying this poster in the AWEA conference proceedings for more information and sample results.

To download this user-friendly free tool, go to www.windpoweringamerica.gov

Statewide Economic Impacts from New Electricity Generation in Colorado
Construction + 20 years of operation ($2005)
Inputs: 40% Gas from CO, 0% coal from CO

Statewide Economic Impacts from New Electricity Generation in Michigan
Construction + 20 years of operation ($2005)
Inputs: 25% Gas from MI, 0% coal from MI

The JEDI model does not factor in costs to consumers. Fluctuations in different technologies (e.g., natural gas prices) may make construction of a new power plant price prohibitive.