

The Comprehensive Electricity Competition Act: A Comparison of Model Results

Table 2. Differences Between NEMS and POEMS

Area	NEMS	POEMS
Non-Electricity Modules		
Integration	NEMS Integrating Module	NEMS Integrating Module
Macroeconomic Behavior	NEMS Macro Activity Module	NEMS Macro Activity Module
International Energy	NEMS International Energy Module	NEMS International Energy Module
Residential Energy Demand	NEMS Residential Demand Module	NEMS Residential Demand Module
Commercial Energy Demand	NEMS Commercial Demand Module	NEMS Commercial Demand Module
Industrial Energy Demand	NEMS Industrial Demand Module	NEMS Industrial Demand Module
Transportation Energy Demand	NEMS Transportation Demand Module	NEMS Transportation Demand Module
Refinery Operations	NEMS Refinery Module	NEMS Refinery Module
Oil and Gas Supply and Demand	NEMS Oil and Gas Supply Module	NEMS Oil and Gas Supply Module
Renewable Fuels	NEMS Renewable Fuels Module	NEMS Renewable Fuels Module
Electricity Module Components		
Capacity Planning	NEMS Electricity Capacity Planning Module	Similar, but with slightly different load representation
Load	NEMS Load and Demand Side Management Module	Similar, but with slightly different load shape representation built up from more disaggregated regions.
Dispatch and Trade	NEMS Electricity Fuel Dispatch Module	TRADELEC™
Pricing	NEMS Electricity Finance and Pricing Module	TRADELEC™

Sources: **NEMS:** National Energy Modeling System Documentation, <http://www.eia.doe.gov/bookshelf/docs/html>. **POEMS:** U.S. Department of Energy, *Supporting Analysis for the Comprehensive Electricity Competition Act*, DOE/PO-0059 (Washington, DC, May 1999).