

IPU RESEARCH NOTE

MICHIGAN STATE UNIVERSITY ■ INSTITUTE OF PUBLIC UTILITIES REGULATORY RESEARCH AND EDUCATION

ENERGY INFORMATION ADMINISTRATION ELECTRICITY GENERATION ESTIMATES (2011)

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The following graphs are based on data reported in the Energy Information Administration (EIA) report, *Annual Energy Outlook 2011* (December 2010, <http://www.eia.gov/forecasts/aeo/index.cfm>), along with details provided in "Updated Capital Cost Estimates for Electricity Generation Plants" (http://www.eia.doe.gov/oiaf/beck_plantcosts/index.html) and "Levelized Cost of New Generation Resources in the Annual Energy Outlook 2011" (http://www.eia.doe.gov/oiaf/aeo/electricity_generation.html).

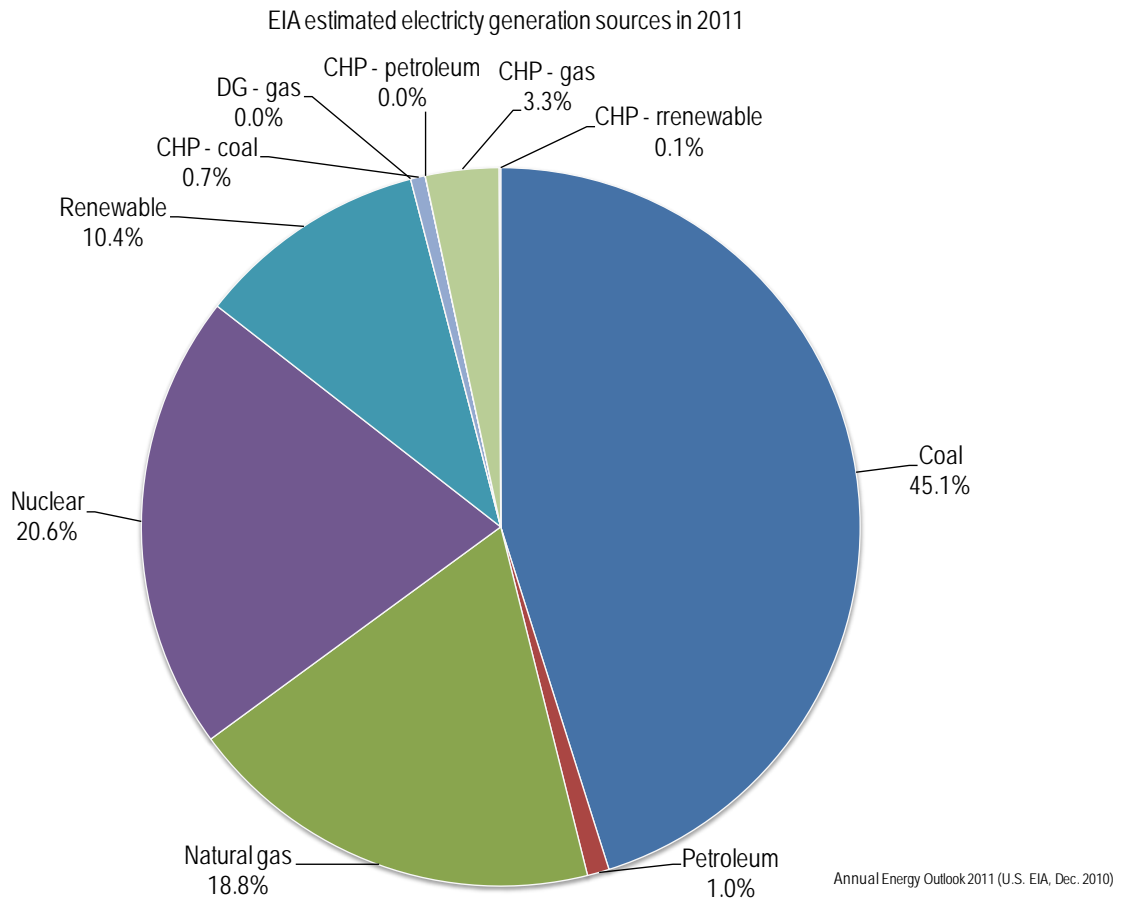


Exhibit 1. EIA estimated electricity generation sources in 2011.

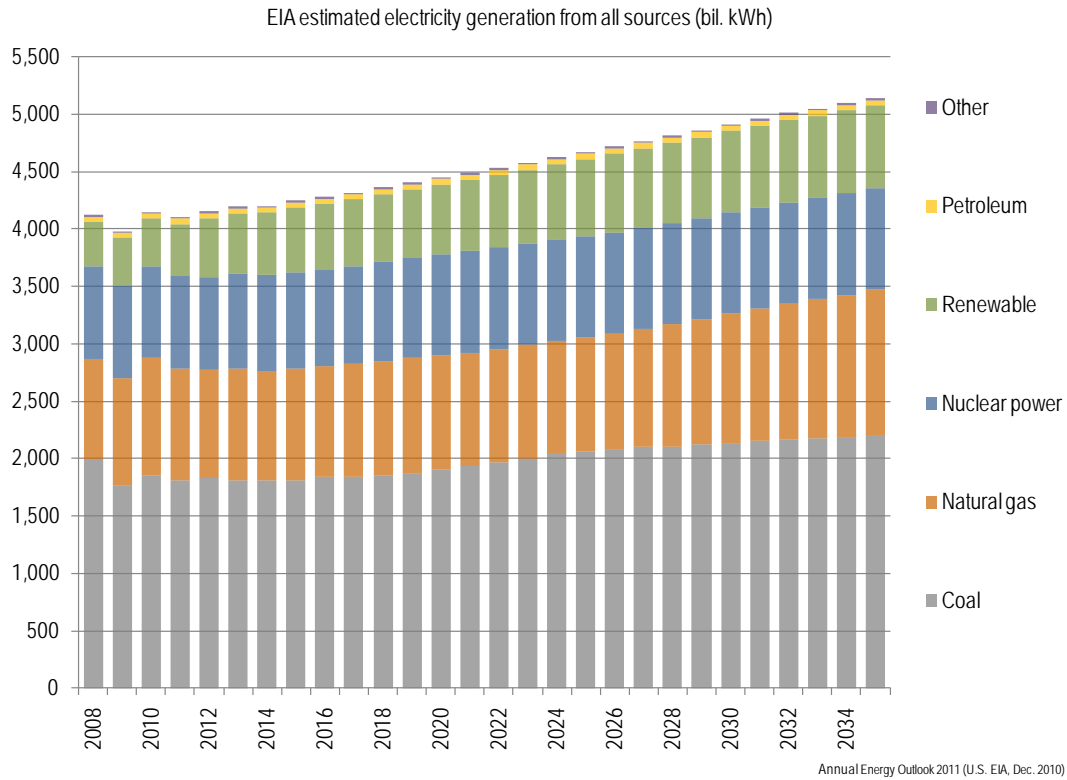


Exhibit 2. EIA estimated electricity generation from all sources.

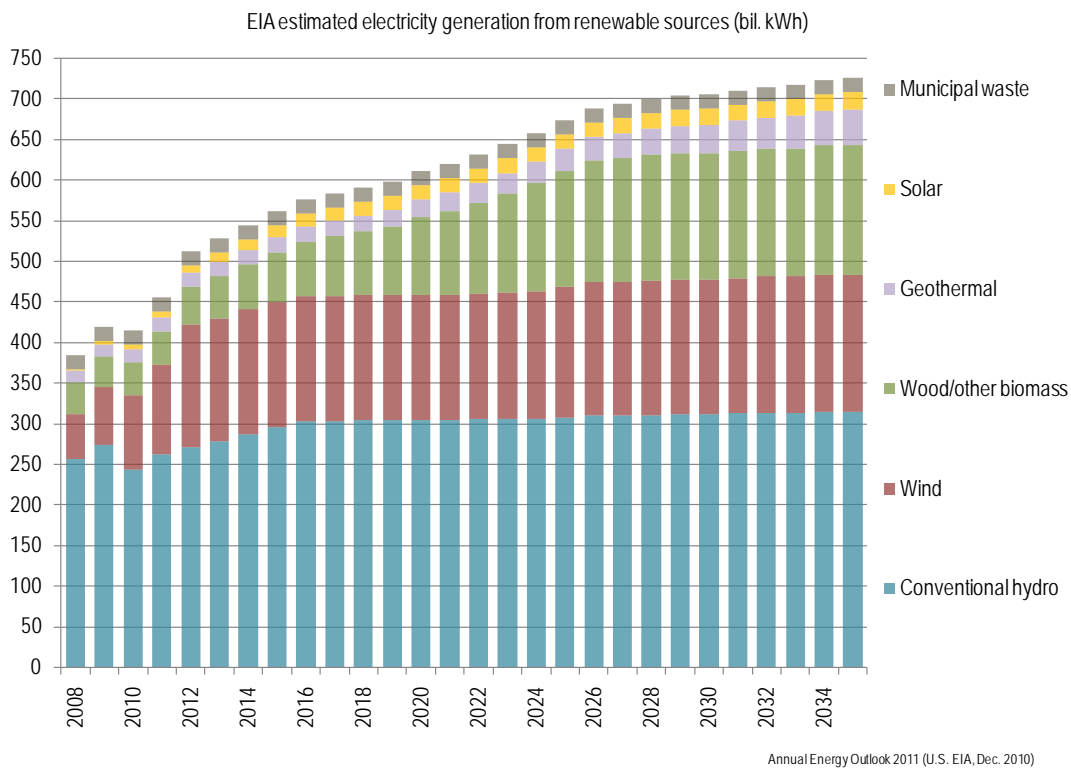
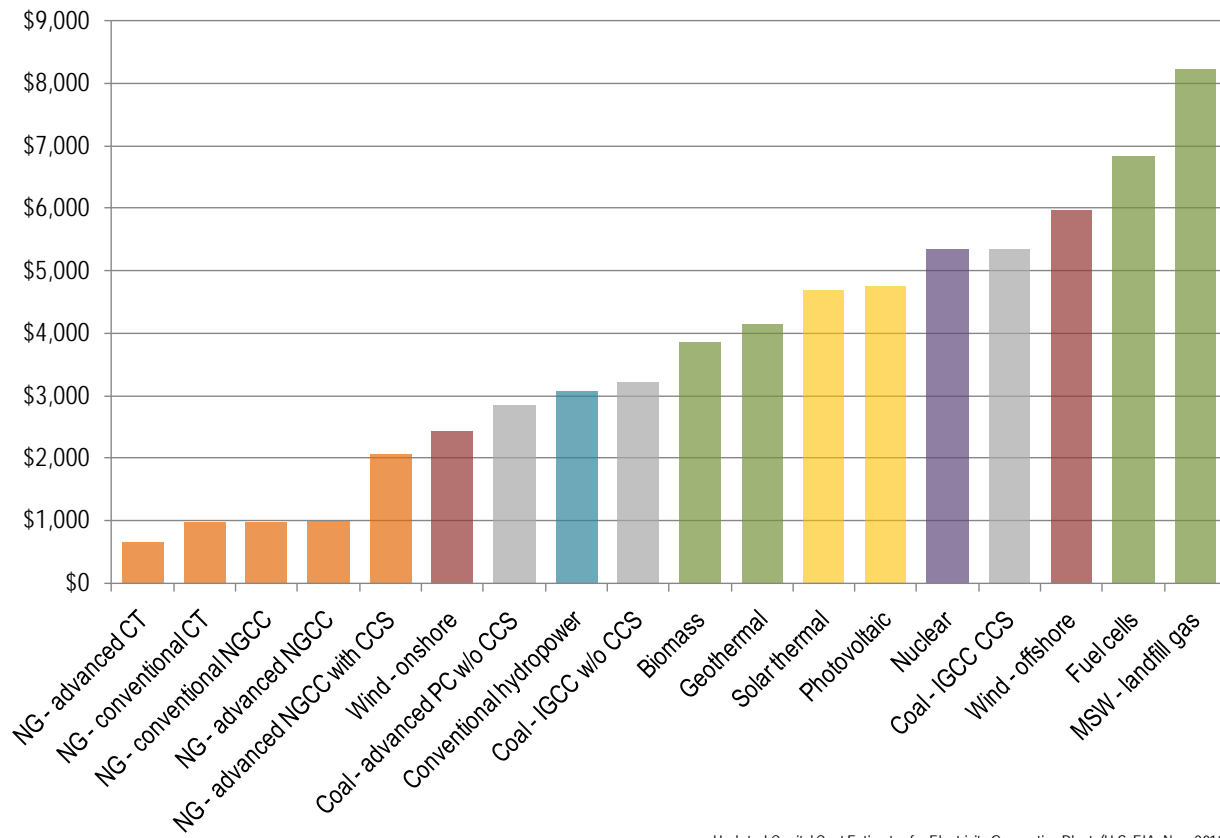


Exhibit 3. EIA estimated electricity generation from renewable sources.

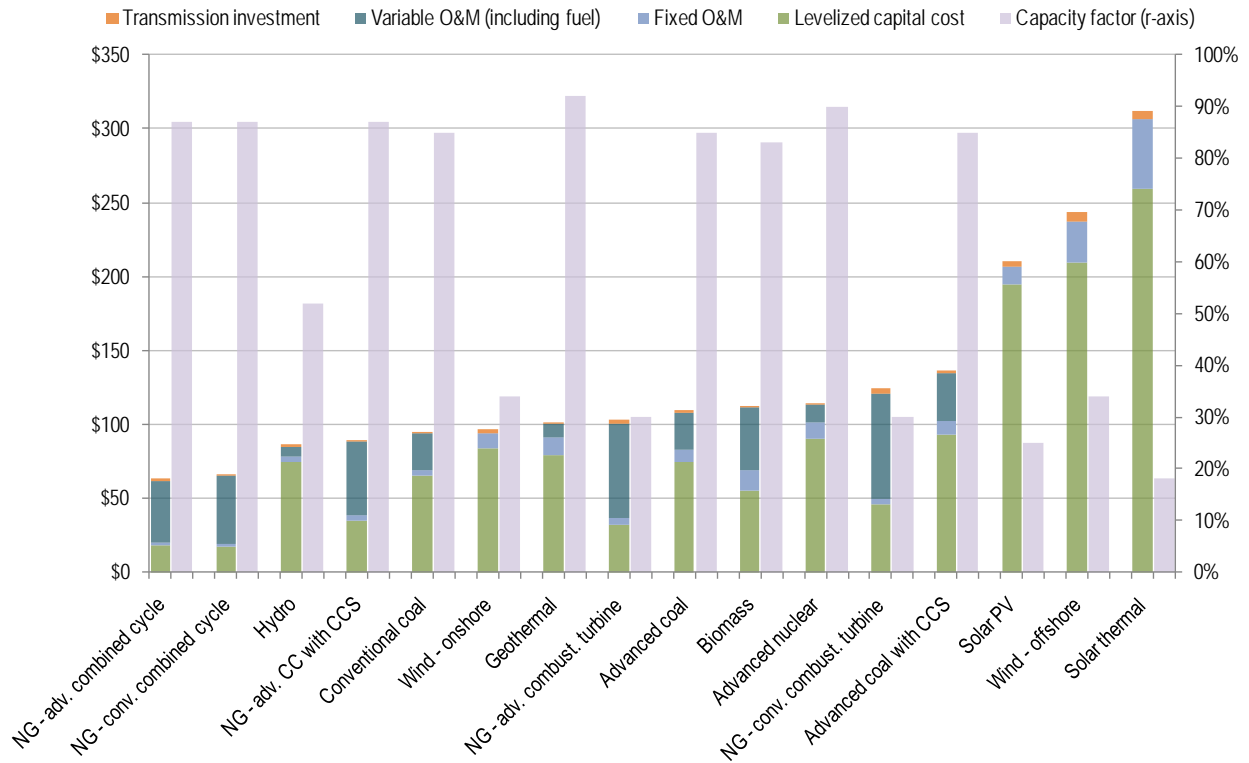
Overnight capital costs (\$/kW) for generation plant alternatives



Updated Capital Cost Estimates for Electricity Generation Plants (U.S. EIA, Nov. 2010).

Exhibit 4. EIA estimated overnight capital costs for generation plant alternatives.

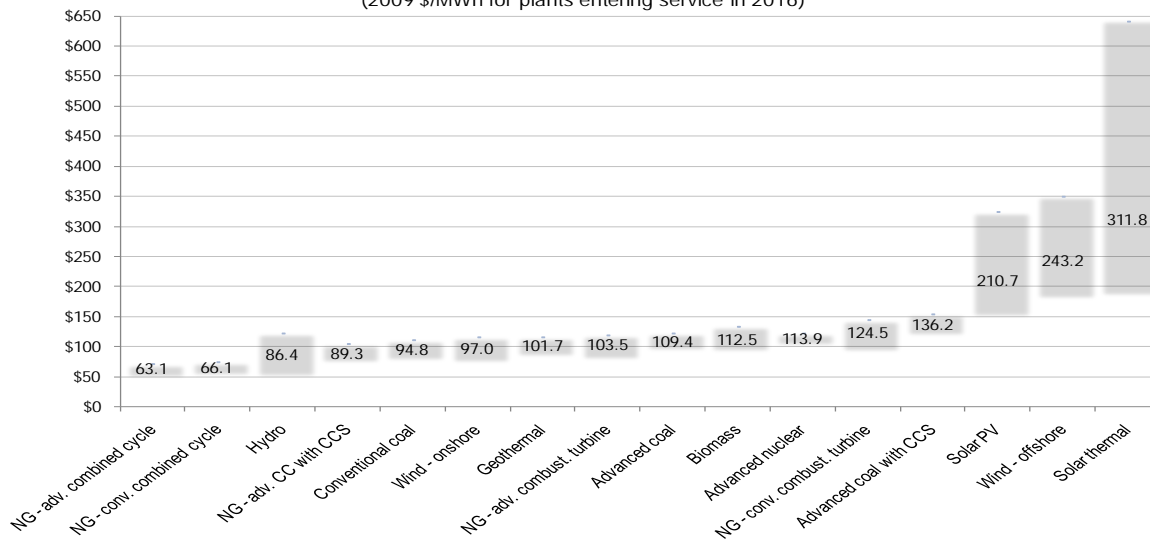
Average levelized cost of generation alternatives
(2009 \$/MWh for plants entering service in 2016)



Estimated Levelized Cost of New Generation Resources, 2016 from Annual Energy Outlook 2011 (U.S. EIA, Dec. 2010).

Exhibit 5. EIA estimated levelized cost of generation alternatives (2009 \$/MWh for plants entering service in 2016).

Average and range of levelized cost for generation alternatives
(2009 \$/MWh for plants entering service in 2016)



Estimated Levelized Cost of New Generation Resources, 2016 from Annual Energy Outlook 2011 (U.S. EIA, Dec. 2010).

Exhibit 6. Range of levelized cost for generation alternatives (2009 \$/MWh for plants entering service in 2016).