Pacific Northwest
NATIONAL LABORATORY
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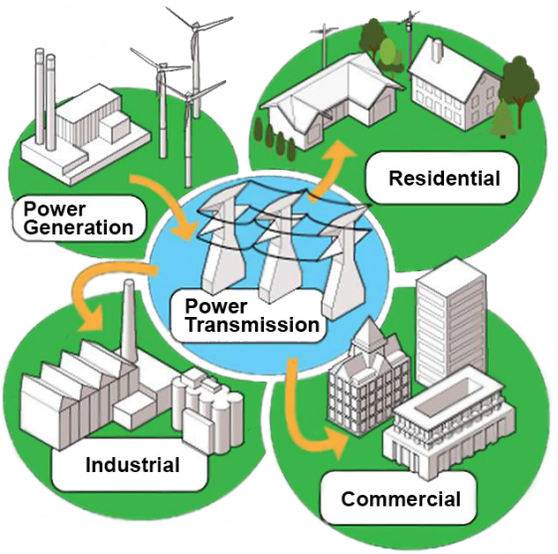
PNNL Energy Economics

OVERVIEW

Our team brings a diverse set of capabilities and tools to bear on the questions of market identification, technology characterization, market impacts of new technology, related environmental, economic, and demographic impacts. A sampling of the general areas the team supports include:

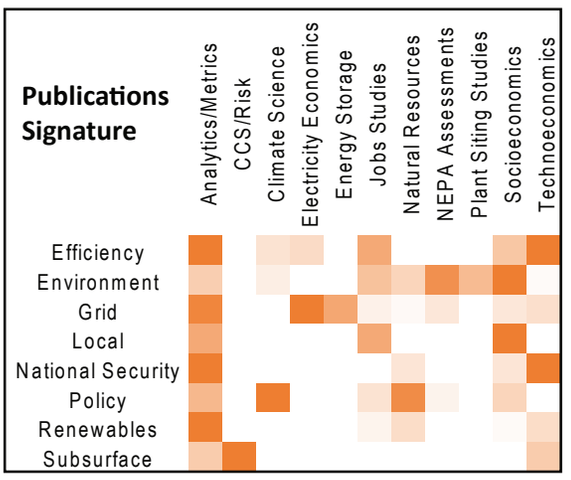
- Economic valuation of emerging grid services.
- Economic and energy impacts of energy policy and regulation.
- Buildings and industrial sector energy efficiency metrics and analysis.
- Economics of alternative electricity generation technologies.
- Employment and macroeconomic impacts of new energy policy and technology.
- New technology business case development.
- Tracking and reporting commercialization success of federal technology R&D.

Our team stewards the wide-ranging analytical capabilities necessary to deliver products in the above areas. Staff also manages multi-disciplinary projects requiring the integration of engineering and economic analysis capabilities.



PNNL is well-positioned to research key emerging environmental questions of the coming 50 years:

- What are the economic impacts of a transformedelectric grid and future power infrastructure development?
- What are the costs, benefits, and impacts of new energy efficiency technologies and policies?
- What are the economic impacts of infrastructure disruption?
- What are the socioeconomic impacts of a transformed built environment?



U.S. DEPARTMENT OF
ENERGY

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THE TEAM APPROACH

PNNL's Energy Economics Team is part of the Energy Policy & Economics Group. We help sponsors characterize and measure markets for new technology, and provide related economic and energy impact assessments of those markets. The team's professionals including economists and engineers that navigate the frontier between technology market assessment and systems engineering analysis. Our work results in national and regional impact analyses and other forms of strategic studies to quantify the potential impacts new technologies can have on the economy and the environment. To achieve market success for clients investing in R&D, the impacts of these investments must be understood and barriers to market success need to be identified. This provides clients with the knowledge to develop strategies to overcome impediments to market success.

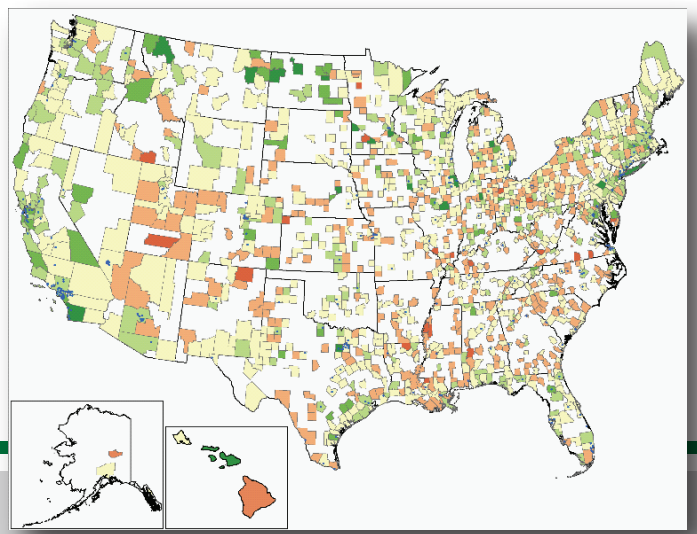
Costs, benefits, metrics, and economic impacts of alternative energy development.

Costs of power plant siting, licensing, and environmental regulation.

Economic benefit cost analysis of Federal installation energy modernization.

Building energy efficiency technology impacts and metrics.

Economic geography of energy efficiency technology and policy decisions.



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