

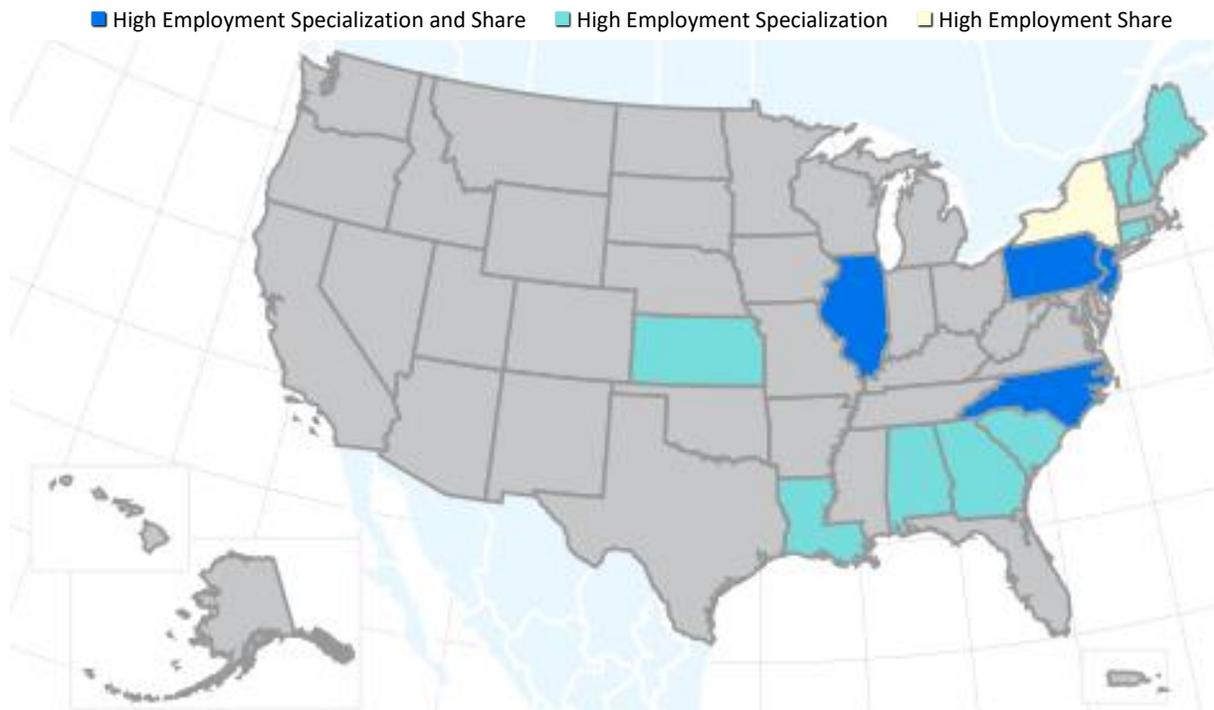
U.S. Industry Report

Alternative Electric Power Subcluster

The Alternative Electric Power subcluster includes the Hydroelectric Power Generation (NAICS 221111), Solar Electric Power Generation (NAICS 221114), and Biomass Electric Power Generation (NAICS 221117) industries and is part of the broader Electric Power Generation and Transmission cluster. As of 2016, there are **1,491 establishments** across the United States that employ **67,272 professionals**, earning an **average annual wage of \$115,854**. The following four states offer high employment specialization *and* share.

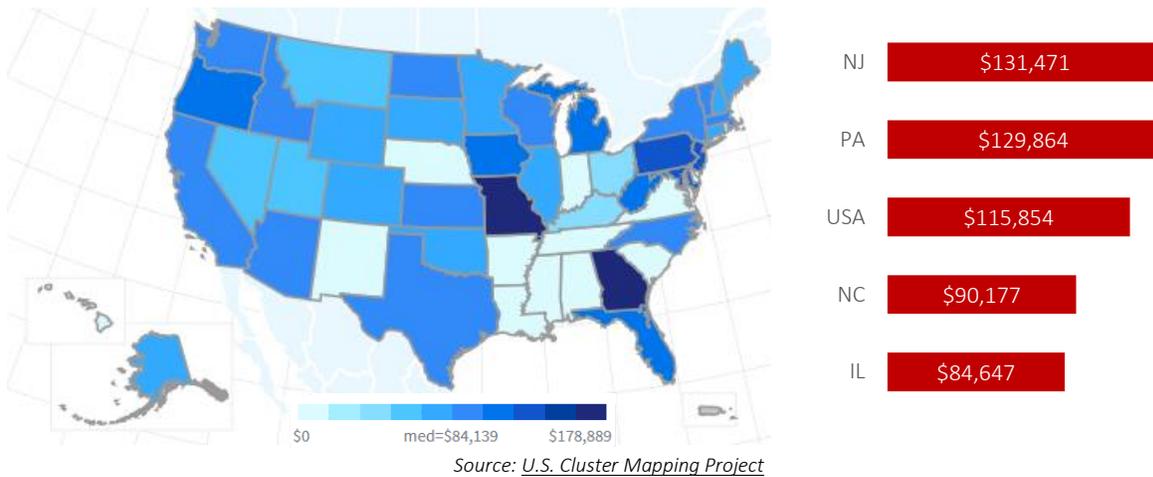
ILLINOIS	NEW JERSEY	NORTH CAROLINA	PENNSYLVANIA
Location Quotient 2.9	Location Quotient 2.3	Location Quotient 2.2	Location Quotient 2.0
Establishments 42	Establishments 32	Establishments 62	Establishments 38
Employment 7,878	Employment 3,990	Employment 3,908	Employment 5,017

Top States by Specialization & Share

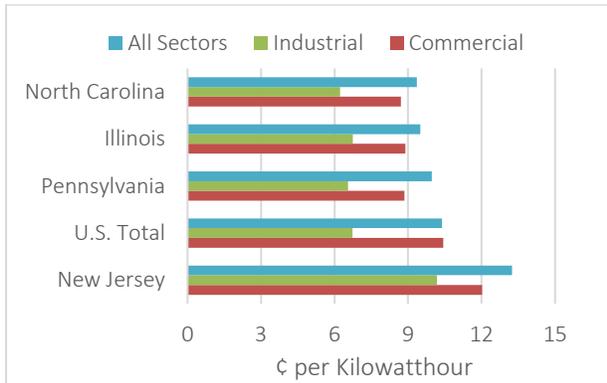


Source: U.S. Cluster Mapping Project

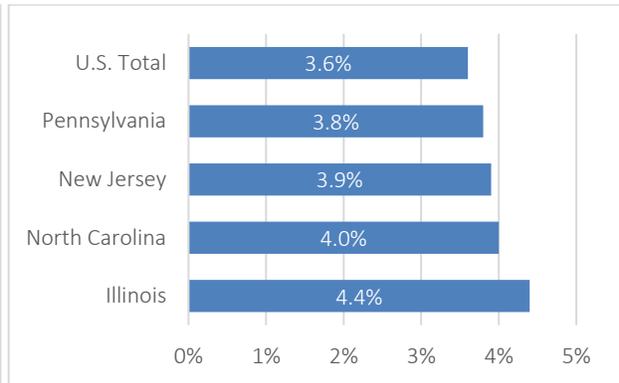
2016 Average Annual Subcluster Wages



Energy Costs (March 2019)



Unemployment Rates (April 2019)



State Subcluster Trends (2011-2016)

Highest % ↑ in Employment	HAWAII	MISSOURI	UTAH	NEW MEXICO	NEBRASKA
	70%	60%	41%	40%	35%
2016 Employment	140	840	111	80	90

Most New Establishments	CALIFORNIA	NORTH CAROLINA	WISCONSIN	TEXAS	MAINE
	+49	+33	+32	+31	+19
2016 Establishments	184	62	59	94	45

Highest ↑ in Location Quotient	NEW JERSEY	WEST VIRGINIA	MISSOURI	HAWAII	IDAHO
	+1.35	+0.91	+0.65	+0.62	+0.59
2016 LQ	2.30	1.34	0.71	0.66	1.29

Source: *U.S. Cluster Mapping Project*

Definitions

Cluster – A cluster is a regional concentration of related industries that arise out of the various types of linkages or externalities that span across industries in a particular location.

Establishment – An establishment is a single physical location at which business is conducted or services or industrial operations are performed. It is not necessarily identical with a company or enterprise, which may consist of one or more establishments. When two or more activities are carried on at a single location under a single ownership, all activities generally are grouped together as a single establishment.

Location Quotient – A location quotient greater than 1 indicates a higher than average cluster concentration in a location.

NAICS – The North American Industry Classification System is the standard used by Federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the U.S. business economy.

High Employment Share – States with high employment *share* rank among the top 10 percent of states with employment information by number of employees in an industry.

High Employment Specialization – States with high employment *specialization* have a location quotient ranking among the top 25 percent of states with employment information for an industry.

U.S. States and Territories



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