



# UTAH ENERGY & NATURAL RESOURCES CLUSTER



Utah Energy & Natural Resources Cluster seeks to connect businesses in the generation, production, transmission, consumption and manufacturing of traditional and alternative energy resources. Responsible energy development and management enables Utah to continue as a leader in low cost energy prices, resource export and technological innovation.



Utah Governor's Office of  
Economic Development  
BUSINESS • TOURISM • FILM

**UTAH**  
LIFE ELEVATED

## Economic Development Statistics

Total Employees	19,451
Percent Represented of Utah's Workforce	3.4%
Total Wages	\$1,381,142,470
Average Monthly Wage	165% of State's average wage
Number of Companies/Firms	1,142
Total Patents (2005-2009)	162
Venture Capital Deals (2000-2008)	20
Public Deals (2000-2008)	11

## Activities

### Utah Energy Working Groups (EWG)

- To organize state agencies in the areas of economic development and energy in order to best serve energy businesses in Utah by limiting duplication, creating synergies and to identify gaps in services.

### Military Installation Energy Collaborative (MIEC)

- Camp Williams
- Dugway Proving Ground
- Fort Douglas
- Hill Air Force Base
- Tooele Army Depot

### Utah Building Energy Efficiency Strategies (UBEES)

- Create the market and workforce to position Utah at the forefront for social and economic prosperity through leadership in high performance homes and buildings.

### Utah Renewable Energy Zones (UREZ)

- Wind:** 9,145MW capacity over 1,838 square miles.
- Solar:** 826GW capacity over 6,371 square miles .
- Geothermal:** 1,330 MW capacity over 5,053 square miles.

Utah is 1 of 4 states generating power from geothermal sources.

### Transmission

- Pacificorp's Energy Gateway Transmission Expansion: an ambitious multi-year \$6 billion plus investment that will add approximately 2,000 miles of new transmission lines across the West.

### Utah Mining Association

- Established in 1915, the UMA helps to promote and protect the mining industry, providing professional industry representation and education about mining and minerals.

### Utah Manufacturing Association

- With 800 members strong, UMA has been the voice of industry for 101 years, with a mission to enhance the business climate in Utah.



Utah is the 8th largest producer of natural gas in the United States.



Utah currently has 224MW of wind generation and 105MW under construction.

## Academia & Technology

- Utah Science Technology and Research Initiative (USTAR) (CO2 Sequestration, Biofuels/BioMass, Intuitive/Solar Buildings, Alternative Energy)
- Ongoing research at University of Utah, Utah State University and Brigham Young University in nano-solar materials, geothermal, hybrid energy, new battery technology
- Numerous projects and training programs at regional higher education institutions, including a renewable energy business incubator at Dixie State College
- Active collaborations with Idaho National Laboratory
- Green Academy established to train new energy economy workforce

## Utah's Energy Goals

- Reduce to 2005 levels by 2020
- Energy Efficiency: 20% by 2020
- Renewable Energy: 20% by 2025

ACEEE 2010 State Energy Efficiency Scorecard ranked Utah 12th in the nation, improving 11 spots over 2009.

## Incentives

- Renewable & Alternative Development Incentive (REDI)
- Economic Development Tax Increment Financing (EDTIF)
- Custom Fit Training

## Objectives

### ✓ Connect

- Link organizations to advance synergistic resources, opportunities, capabilities
- Recognize and promote Utah's advantages

### ✓ Industry

- Facilitate industry supply chains
- Promote achieving Utah's energy goals

### ✓ Education

- Support advancement of workforce development and training efforts
- Create an understanding of the energy sectors through outreach

### ✓ Infrastructure

- Assist with electricity transmission initiatives
- Champion planning and technological advancements in transportation