




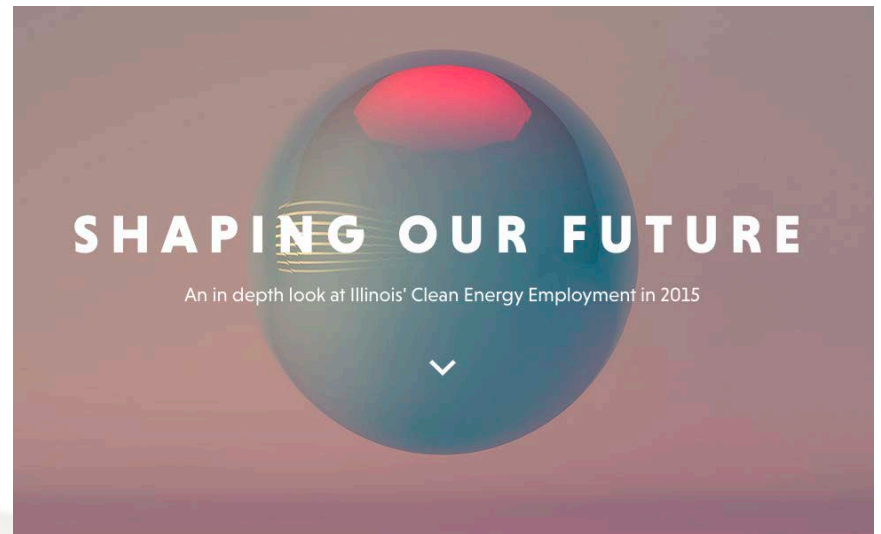
clean
energy
trust



Clean Energy Trust works at
the intersection of startup
investment, technology
commercialization, and
energy policy

- Clean Jobs Illinois

- Background
- Survey Findings
- Methodology
- Q&A



- Clean Power Plan Compliance Model

Background

- Clean Jobs Illinois
 - Fielded late 2013, Published early 2014
 - Fielded early 2015, Published May 2015
 - Interactive website: cleanjobsIL.com
 - Survey Results
 - Profiles of Clean Energy Workers
 - Illinois Clean Energy Market Context
 - Published by CET, support from E2, ELPC, NRDC, Joyce Foundation, Energy Foundation



2015 Findings: Overall

- 2013: Nearly 97,000 clean energy workers
- 2015: **104,449** clean energy workers
 - A growth of 7,574 (7.8%) over 15 months
 - Projected increase of 7,860 (7.5%) over next 12 months
- Small Business activity: nearly 60% employed 10 or fewer employees
- Areas of employment:
 - **Energy Efficiency: 66%, 14% growth**
 - Renewables: 20.6%, 6.8% growth
 - Alternative Transportation: 4.4%, 4.4% growth
 - Remainder: GHG Accounting & Management (0.6%), Other (8.4%)

2015 Findings: Energy Efficiency

- Energy Efficiency: 68,901 workers, made of:
 - Energy Efficiency Upgrades: 29,704 (43.1%)
 - HVAC: 24,761 (35.9%)
 - Water, wastewater and conservation: 9,140 (13.3%)
 - Demand Response: 1,775 (2.6%)
 - Energy Storage: 1,700 (2.3%)
 - Smart Grid: 1,599 (2.3%)
 - Other: 222 (0.3%)

Methodology

- Conducted by BW research partnership, national leader in workforce and economic development research
 - BW Spoke with 1,314 businesses to quantify activities, Used response data, together with data collected by the Bureau of Labor Statistics and the Illinois Department of Employment Security to determine the size and breadth of clean energy establishments across the state
 - State job number margin of error of +/-2.65% at a 95% confidence interval (other employment-related questions have a margin of error in this study of +/-4.9%)
- Measure of clean energy jobs across the value chain:
 - *Companies involved with an activity related to the clean energy industry - We define this as being **directly involved with researching, developing, producing, manufacturing, distributing or implementing components, goods or services related to renewable energy, energy efficiency or conservation, smart grid, energy storage, carbon management, and/or electric or hybrid vehicles, including supporting services such as consulting, finance, tax, and legal services related to clean energy.***

Methodology Continued

- Survey approach to count clean energy workers – not an economic model
- Quantified clean energy activity in research and development, manufacturing, sales and distribution, installation and maintenance, and professional services.
- Methodology has been peer reviewed by:
 - Cornell School of Industrial and Labor Market Relations,
 - National Renewable Energy Laboratory (NREL)
 - Solar components have been verified by the Congressional Research Office as the most definitive available.
- Utilized in 12 states - official clean jobs counting methodology for 2 states in New England
- Inherently conservative – doesn't include:
 - Utility employees, bus drivers, farmers, Professors at a community or technical college teaching a course on EE to contractors, Salesperson at Home Depot selling LEDs

CPP Model & Questions

- Clean Power Plan Compliance Model
 - Interactive excel based tool to model least-cost compliance options for Clean Power Plan Compliance in Illinois
 - Supported by Advanced Energy Economy; Modeling developed by 5 Lakes Energy
 - Available later this summer
- Questions?

Help Us Build The Future

Ian Adams
ian@cleanenergytrust.org
630-921-7459