



MINNESOTA

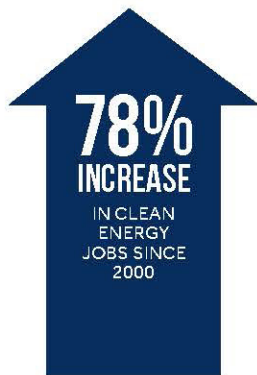
# CLEAN ENERGY OVERVIEW

HIGHLIGHTS FROM MINNESOTA'S CLEAN ENERGY ECONOMY PROFILE

Clean energy businesses employ workers and generate revenue directly from products or services that use less energy to provide the same service, or produce heat, power or fuel from renewable sources of energy. The MN Clean Energy Economy Profile focuses on five clean energy sectors: Energy Efficiency, Bioenergy, Wind Power, Solar Energy, and Smart Grid.



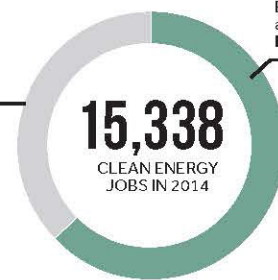
## EMPLOYMENT



**+11%**

OVERALL STATE EMPLOYMENT GREW ONLY 11% DURING SAME TIME PERIOD

Bioenergy (12%)  
Wind Power (11%)  
Solar Energy (8%)  
Smart Grid (6%)



63% Of Clean Energy jobs are in Energy Efficiency

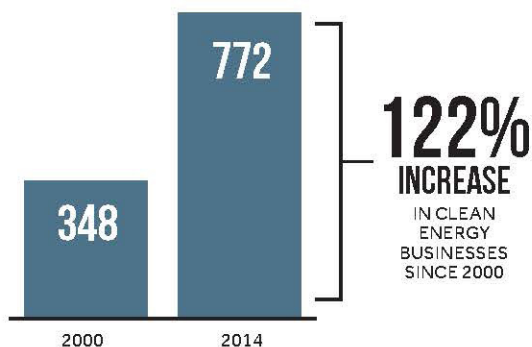


**22%**

OF THESE JOBS ARE IN INSTALLATION AND MAINTENANCE OF CLEAN ENERGY TECHNOLOGIES



## BUSINESSES



## AVERAGE ANNUAL WAGE



CLEAN ENERGY WAGES ARE 42% HIGHER THAN THE STATEWIDE AVERAGE (2013)

OVER \$1 BILLION IN TOTAL WAGES IN THE CLEAN ENERGY ECONOMY IN 2013



## PATENTS



**8<sup>TH</sup>**

MINNESOTA RANKS EIGHTH IN THE NATION FOR REGISTERED CLEAN ENERGY PATENTS IN 2013, UP FROM TWENTIETH IN 2003



## INVESTMENTS



**\$11 BILLION**

NEARLY \$11 BILLION INVESTED IN MINNESOTA CLEAN ENERGY PROJECTS, \$452 MILLION IN EARLY STAGE INVESTMENT (2004-2013)



## BIOFUEL CAPACITY



**1.7 MILLION**

BIOFUEL PRODUCTION CAPACITY IN MINNESOTA IS ENOUGH TO REPLACE TRADITIONAL FUEL FOR 1.7 MILLION VEHICLES FOR ONE YEAR (2012)



## ENERGY SAVINGS



**1.4 MILLION**

EFFICIENCY SAVINGS AND RENEWABLE ELECTRICITY GENERATION IN MINNESOTA IS EQUAL TO ENOUGH ENERGY TO POWER OVER 1.4 MILLION HOMES IN THE STATE FOR ONE YEAR (2012)

To download the full report, please visit: [www.mn.gov/deed/clean](http://www.mn.gov/deed/clean).

Data Source: Minnesota Department of Commerce, National Establishment Time Series Database (NETS), Institute for Exceptional Growth Companies, MN DEED Economic Analysis Unit Survey-July 2014, MN Unemployment Database, 1790 Analytics, Patents by Technology; USPTO Patent File, CB Insights, Bloomberg New Energy Finance

Analysis and Design: Collaborative Economics