



Here's what the EPA's **Clean Power Plan** means to America: **More jobs, less carbon pollution.**

We all know that shifting to more clean energy and less carbon pollution at a steady, sustainable pace is good for our environment and good for our children's future.

We should also realize that the Clean Power Plan — our nation's biggest breakthrough yet in the fight against climate change — **is good for our economy.**

## MORE JOBS

- **250,000:** Number of clean energy and transportation jobs that have been announced across the country the past three years alone.<sup>i</sup>
- **100,000+:** Number of new clean energy jobs the Clean Power Plan alone is expected to help create over the next 15 years.<sup>ii</sup>
- **13 percent:** That's how much higher wages are for jobs in the clean economy compared to median U.S. wages.<sup>iii</sup>

## LESS CARBON

- **32 percent:** That's how much the Clean Power Plan will cut the U.S. electric sector's carbon pollution by 2030 relative to 2005 levels.<sup>iv</sup>
- **870 million:** That's how many fewer tons of carbon will be emitted in 2030 alone under the Clean Power Plan. That's like canceling out the annual carbon emissions from 70 percent of our nation's cars, or from the annual electricity use of all U.S. homes.<sup>v</sup>
- **37 percent:** That's how much carbon pollution in America comes from power plants.<sup>vi</sup>

### Environmental Entrepreneurs

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**Good for the Economy.  
Good for the Environment.**

# CLEAN POWER PLAN SENDS A MARKET SIGNAL

The Clean Power Plan sends **a strong, clear, long-term market signal** that gives the private sector the certainty it needs to expand investment in innovative clean energy technologies, help grow small businesses and create good jobs.

- **\$35 billion-\$65 billion:** Growth in annual investment in the U.S. clean energy sector since 2007. Carbon pollution limits will expand that.<sup>vii</sup>
- **57 percent:** Percentage of new electric generation capacity installed in the first seven months of 2015 from **wind and solar**.<sup>viii</sup>
- **23 percent less:** How much less it will soon cost to produce electricity from a wind turbine, on average, than producing it from coal. In more than **14 states**, it's now as **cheap, or cheaper, to make electricity from the sun** as it is to buy it from your local power company. A year from now, that will be the case in about **47 states**, according to Deutsche Bank.<sup>ix</sup>

Economic expansion resulting from long-term market signals is something **we've seen work in multiple industries**.

- **340,000:** Number of jobs accounted for in 2010 from energy efficiency standards for appliances and equipment that were put in place in 1987.<sup>x</sup>
- **570,000:** Number of jobs fuel efficiency standards for cars and light-duty trucks are expected to create — including 50,000 jobs manufacturing light-duty vehicle parts and assembling new vehicles by 2030.<sup>xi</sup>

## GOOD JOBS FOR VETERANS

- **The Dept. of Defense's** own commitment to **clean, renewable energy** means our veterans are entering the workforce with the skills that clean energy employers demand.
- From **Colorado's Fort Carson to Virginia's Naval Station Norfolk**, the Dept. of Defense and the Dept. of Energy are partnering in a program called **"Solar Ready Vets."** This helps military personnel transition from active-duty service to jobs as solar installers, sales representatives, system inspectors, and other solar-related occupations.<sup>xii</sup>
- Already, veterans make up a **disproportionately large percentage of the clean energy workforce** in states like **Florida, Pennsylvania, Missouri, and Ohio**.<sup>xiii</sup>

## BUSINESSES SUPPORT CLIMATE ACTION

Support for clean energy is broad and wide.

- **A survey of 800 small and large business leaders** in the Midwest and West found that **seven in 10 business leaders** support federal regulations that would significantly **reduce carbon emissions from coal-fired power plants**.<sup>xiv</sup>
- **In Michigan, that number is even higher:** About **90 percent of Michigan business leaders** favor state-based action to reduce carbon emissions to help meet the standards in **the federal Clean Power Plan**.<sup>xv</sup>
- **In the Southeast, there's strong support** in places like Virginia, where **57 percent of small business owners favor limiting carbon pollution from power plants**.<sup>xvi</sup> In North Carolina, **54 percent of small businesses said they think it would be good for the state's economy to reduce industrial carbon pollution from fossil fuels and increase renewable energy sources**.<sup>xvii</sup>
- **From General Mills and Staples, to Unilever and VF Corporation, 365 of America's biggest businesses and investors** have voiced support for the Clean Power Plan.<sup>xviii</sup> In fact, **60 percent of Fortune 100 companies** have already set their own clean energy targets, **saving \$1 billion** in energy costs.<sup>xix</sup>

## ECONOMIC COSTS OF CLIMATE CHANGE

**\$140 billion:** That's how much crop losses, flood damage, wildfires and other **climate-related disasters** cost our country in 2012.<sup>xx</sup>

**\$1,100:** That's how much cleaning up those disasters cost **each and every American taxpayer** in 2012.<sup>xxi</sup>

**\$20 billion:** That's the value economists put on the Clean Power Plan's **climate benefits** in 2030, with another **\$14 billion-\$34 billion** on the lives saved and other **health benefits**.<sup>xxii</sup>

**10+ percent:** Without adaptation, that's the **rate of decline in corn, wheat, soy and cotton yields** Midwestern and Southern farmers could experience over the next 5-25 years.<sup>xxiii</sup>

**One in four:** The number of small businesses that **do not re-open** following a major disaster.<sup>xxiv</sup>

**What do insurance companies say?** In its 2014 10-K filing with the Securities and Exchange Commission, Iowa-based Principal Financial Group, an S&P 500 company with a market cap of \$14 billion, echoed sentiments shared across a **massive industry positioned on the front lines of climate change**:

"Atmospheric concentrations of carbon dioxide and other greenhouse gases have increased dramatically since the Industrial Revolution, resulting in a gradual increase in global average temperatures and an increase in the frequency and severity of natural disasters. These trends... have the potential to impact nearly all sectors of the economy..." (PFG's 2014 10-K filing)





# INDUSTRIAL GROWTH BY CUTTING CARBON



## Solar Energy

- **174,000:** Americans work in the solar industry.<sup>xxv</sup>
- **20x:** The solar is adding jobs 20-times faster than the overall economy, accounting for 1.3 percent of all new jobs added in the U.S. in 2014.<sup>xxvi</sup>
- **87 percent:** Growth rate of solar jobs the past five years.<sup>xxvii</sup>



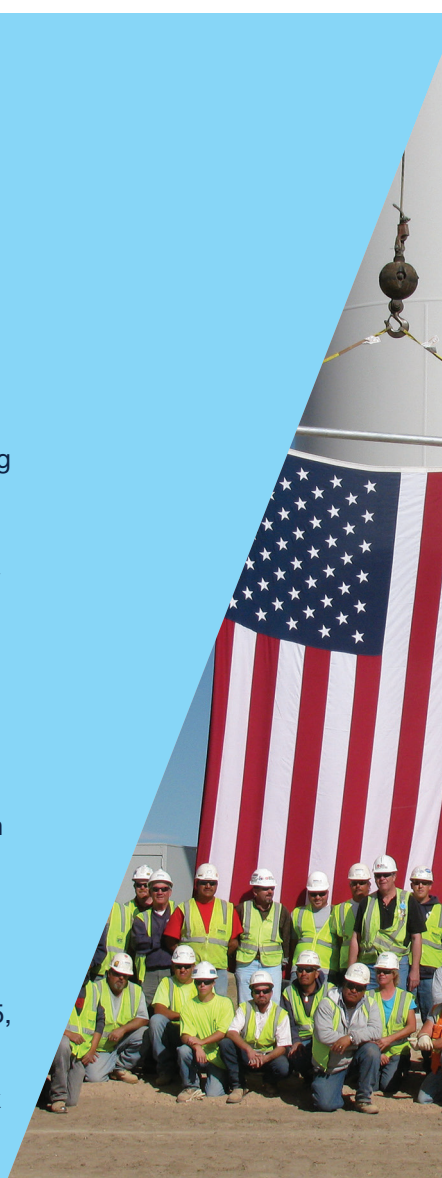
## Wind Energy

- **73,000:** Americans work in the wind industry.<sup>xxviii</sup>
- **1,100:** Every major American wind farm creates more than 1,100 jobs along the supply chain, ranging from blade makers to ball-bearing manufacturers to trucking companies.<sup>xxix</sup>
- **98 percent:** Ratio of wind farms located on private land, generating nearly \$200 million in lease payments to landowners.<sup>xxx</sup>



## Energy Efficiency

- **Energy efficiency** remains one of the best — and often it's the **easiest, cheapest, cleanest, and fastest** — options for states and power companies to cut emissions from energy production to help meet the Clean Power Plan's standards while continuing to provide affordable, reliable, and seamless electricity to everyone.
- **83,000:** Number of jobs that due to the Clean Power Plan can be created in the energy efficiency sector alone by 2030. This will be in addition to the 2.3 million Americans who already work in the green building sector in 2015, according to USGBC and Booz Allen Hamilton.<sup>xxxi</sup>
- **7.7 percent:** That's how much the typical electric bill is expected to shrink thanks to increased energy efficiency under the Clean Power Plan.<sup>xxxii</sup>



<sup>i</sup> <https://www.e2.org/jsp/controller?docId=36268>

<sup>ii</sup> <http://www2.epa.gov/sites/production/files/2015-08/documents/cpp-final-rule-ria.pdf> (Chapter 6)

<sup>iii</sup> <http://www.brookings.edu/research/reports/2011/07/13-clean-economy>

<sup>iv</sup> <https://blog.epa.gov/blog/2015/08/6-things-clean-power-plan/>

<sup>v</sup> <http://www.nrdc.org/climate/files/cpp-national-compliance-IB.pdf>

<sup>vi</sup> <http://www3.epa.gov/climatechange/ghgemissions/gases/co2.html>

<sup>vii</sup> <http://www.bcse.org/wp-content/uploads/2015-Sustainable-Energy-in-America-Factbook.pdf>

<sup>viii</sup> <http://www.ferc.gov/legal/staff-reports/2015/july-infrastructure.pdf>

<sup>ix</sup> [https://www.db.com/cr/en/docs/solar\\_report\\_full\\_length.pdf](https://www.db.com/cr/en/docs/solar_report_full_length.pdf)

<sup>x</sup> <http://aceee.org/press/2011/01/appliance-and-equipment-standards-money-maker-and-job-cr>

<sup>xi</sup> <http://www.bluegreenalliance.org/news/publications/gearing-up>

<sup>xii</sup> <http://energy.gov/eere/sunshot/solar-ready-vets>

<sup>xiii</sup> [www.cleanjobspa.com](http://www.cleanjobspa.com)

<sup>xiv</sup> [http://www.acore.org/images/documents/ACORE\\_Business\\_Leader\\_Survey\\_memo.pdf](http://www.acore.org/images/documents/ACORE_Business_Leader_Survey_memo.pdf)

<sup>xv</sup> <https://www.e2.org/jsp/controller?docId=37723>

<sup>xvi</sup> [http://cleanenergyworksforus.org/wp-content/uploads/2014/09/VA\\_Business\\_Poll.pdf](http://cleanenergyworksforus.org/wp-content/uploads/2014/09/VA_Business_Poll.pdf)

<sup>xvii</sup> <https://www.e2.org/jsp/controller?docId=34116>

<sup>xviii</sup> <http://www.ceres.org/press/press-releases/365-companies-and-investors-announce-support-for-epa2019s-clean-power-plan>

<sup>xxv</sup> <https://www.ceres.org/resources/reports/power-forward-2.0-how-american-companies-are-setting-clean-energy-targets-and-capturing-greater-business-value/view>

<sup>xxvi</sup> <http://www.nrdc.org/globalwarming/files/taxpayer-climate-costs-IP.pdf>

<sup>xxvii</sup> <http://www.nrdc.org/globalwarming/files/taxpayer-climate-costs-IP.pdf>

<sup>xxviii</sup> <http://www.nrdc.org/climate/files/cpp-national-compliance-IB.pdf>

<sup>xxix</sup> <http://riskybusiness.org/index.php?p=reports/national-report/executive-summary>

<sup>xxx</sup> <http://www.smallbusinessmajority.org/small-business-research/downloads/030414-Extreme-Weather-policy-paper.pdf>

<sup>xxxi</sup> <http://www.thesolarfoundation.org/solar-jobs-census/national/>

<sup>xxxii</sup> <http://www.thesolarfoundation.org/solar-jobs-census/national/>

<sup>xxxiii</sup> <http://www.thesolarfoundation.org/solar-jobs-census/national/>

<sup>xxxiv</sup> <http://www.awea.org/Resources/Content.aspx?ItemNumber=5059>

<sup>xxxv</sup> <http://www.nrdc.org/energy/files/american-wind-farms-ip.pdf>

<sup>xxxvi</sup> <http://www.awea.org/Advocacy/Content.aspx?ItemNumber=797>

<sup>xxxvii</sup> <http://www.epa.gov/airquality/cpp/cpp-final-rule.pdf>

<sup>xxxviii</sup> <http://www2.epa.gov/sites/production/files/2015-08/documents/cpp-final-rule-ria.pdf> (Pages 3-40); <http://www2.epa.gov/cleanpowerplan/fact-sheet-energy-efficiency-clean-power-plan>



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