

## A CLEANER, MORE EFFICIENT POWER SECTOR IN WYOMING

We have a moral obligation to leave our children a planet that's not polluted or damaged. By taking action now to combat climate change, including developing homegrown clean energy and cutting energy waste, we can help protect our kids' health, cut carbon pollution, and begin to slow the effects of climate change so we leave a cleaner, safer environment for future generations.

We are already feeling the dangerous and costly effects of a changing climate across the nation. In the past three decades, the percentage of Americans with asthma has more than doubled, and climate change is putting those Americans at greater risk of landing in the hospital. And extreme weather events – from more severe droughts and wildfires in the west to more powerful hurricanes and record heat waves – are affecting communities across the country. Now is the time to act. We have already made progress by moving to cleaner sources of energy and improving the energy efficiency of our cars, trucks, and buildings.

The Clean Power Plan, a key part of the President's Climate Action Plan, cuts harmful carbon pollution from the power sector that's fueling climate change. By setting the first-ever national standards to limit carbon pollution from power plants, the largest single source of U.S. carbon pollution, it will improve the health of Americans across the country, create clean energy jobs, and help households and businesses save on their energy bills. The final plan takes into account the more than 4 million comments received from states and stakeholders across the country, creating strong but achievable standards for power plants that provide flexibility and choices for states and utilities on how to achieve their clean energy future.

### The Clean Power Plan Will Improve the Health of Wyoming Residents

We know climate change will put vulnerable populations at greater risk – including the elderly, our kids, and people already suffering from burdensome allergies, asthma, and other illnesses. According to the Centers for Disease Control and Prevention, 9.1 percent of Wyoming's adult population suffers from asthma. The sooner we act, by taking responsible steps to cut carbon pollution from existing power plants, the more we can do to prevent impacts that affect all Americans – especially the most vulnerable.

In 2013, 51 million metric tons of carbon pollution were emitted from power plants in Wyoming — equal to the yearly pollution from over 10 million cars. In addition to reducing a portion of this carbon pollution, EPA's guidelines will also cut other forms of air pollution like soot and smog. Overall, these reductions will provide significant health benefits.

Since the Clean Air Act was implemented more than 40 years ago, the EPA has continued to protect the health of communities, in particular those vulnerable to the impacts of harmful pollution, while growing the economy. In fact, since 1970, air pollution has decreased by nearly 70 percent while the economy has tripled in size. The Clean Power Plan builds on this progress, while providing states the flexibility to have clean, reliable, and affordable electricity.

### Reducing Carbon Pollution Lowers Risks and Costs for Wyoming

Wyoming is part of the U.S. National Climate Assessment's Great Plains Region. The findings in the National Climate Assessment underscore the need for urgent action to combat the threats from climate change, protect American citizens and communities today, and build a sustainable future for our kids and grandkids. According to the third U.S. National Climate Assessment Highlights report, regional and state-specific impacts include:

- *Climate:* Temperatures increased across the region from 1895 to 2011, with a regionally averaged warming of about 1.3°F.
- *Water:* Changes in the timing of streamflow related to changing snowmelt are already observed and will continue, reducing the supply of water for many competing demands and causing far-reaching ecological and socioeconomic consequences. The largest responses are expected to occur in basins with significant snow accumulation, where warming increases winter flows and advances the timing of spring melt. By 2050, snowmelt is projected to shift three to four weeks earlier than the 20th century average, and summer flows are projected to be substantially lower, even for an emissions scenario that assumes substantial emissions reductions. Region-wide summer temperature increases and, in certain basins, increased river flooding and winter flows and decreased summer flows, will threaten many freshwater species, particularly salmon, steelhead, and trout.
- *Forests:* Climate change will alter forests by increasing wildfire risk and insect and tree disease outbreaks, and by forcing longer-term shifts in forest types and species. Many impacts will be driven by water deficits, which increase tree stress and mortality, tree vulnerability to insects, and fuel flammability. Projected climate changes suggest that western forests in the United States will be increasingly affected by large and intense fires that occur more frequently. The cumulative effects of disturbance – and possibly interactions between insects and fires – will cause the greatest changes in forests.
- *Tribes:* Observed and future impacts from climate change threaten Native Peoples' access to traditional foods such as fish, game, and wild and cultivated crops, which have provided sustenance as well as cultural, economic, medicinal, and community health for generations. Native communities' vulnerabilities and limited capacity to adapt to water-related challenges are exacerbated by historical and contemporary government policies and poor socioeconomic conditions.

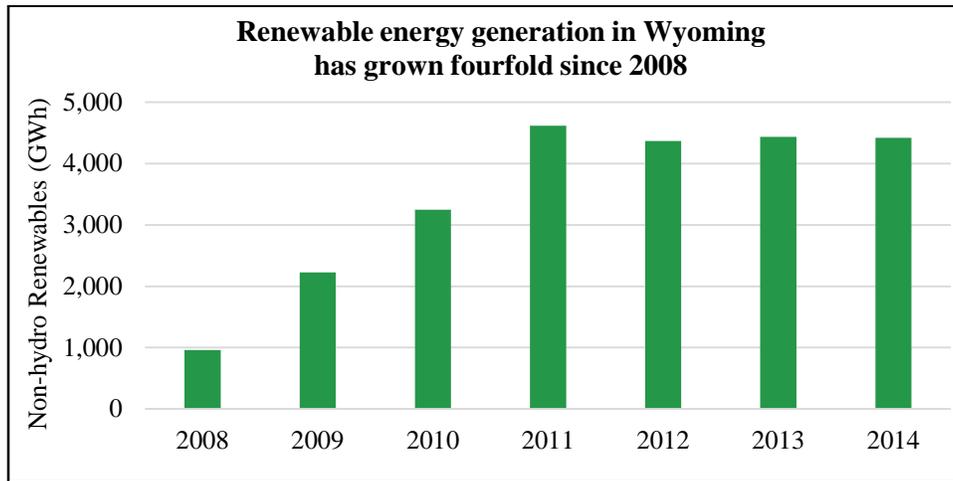
### **Wyoming has Many Tools to Meet its Clean Power Plan Goals**

Wyoming, like all states, will have flexibility to meet EPA's goal by using the energy sources that work best for it and by cutting energy waste. To date, all 50 states have demand-side energy efficiency programs, 37 have implemented renewable portfolio standards or goals, and 10 have adopted market-based greenhouse gas emissions programs. The mayor of Jackson, Wyoming has joined the Mayors Climate Protection Agreement, committing to take action in the community to reduce greenhouse gas emissions. EPA's rule builds on progress already underway in each state and provides guidelines for states to develop plans to meet their carbon pollution reduction goals. It lets states work alone to develop plans or work together with neighboring states to develop multi-state plans, creating thousands of good jobs for Americans who are making our electricity system cleaner and our homes and businesses more energy efficient. In 2014, there were approximately 750 people employed in the wind and solar industries in Wyoming.

### **Cutting Carbon Pollution and Saving on Energy Bills in Wyoming**

Through the President's leadership, and the initiative of the state of Wyoming, local communities, and the private sector, a number of common sense measures to combat carbon pollution in Wyoming are already in place. EPA's flexible guidelines for power plants will continue driving cost-effective measures to reduce carbon pollution in Wyoming, building off of recent progress:

- **Increasing the Deployment of Clean Energy:** Since President Obama took office, the United States has more than doubled its use of renewable energy from wind, solar, and geothermal sources, including tripling wind energy generation and increasing solar generation by more than twenty times. In Wyoming, renewable energy generation from these sources increased more than fourfold since 2008. The Administration has supported tens of thousands of renewable energy projects throughout the country, including three in Wyoming, generating enough energy to power over 48,000 homes. Furthermore, the U.S. produces more natural gas than ever before - and nearly everyone's energy bill is lower because of it.



- **Improving Energy Efficiency:** Using less energy to power our homes and businesses is critical to building a clean and secure energy future. President Obama has made essential investments in research and development to advance energy efficiency, and set new standards to make the things we use every day more efficient. Since October 2009, the Department of Energy and the Department of Housing and Urban Development have jointly completed energy upgrades for more than 1.5 million homes across the country, saving many families more than \$400 on their heating and cooling bills in the first year alone. Already, local communities are taking initiative. Through the President's Better Buildings Challenge, the city of Gillette committed to reducing energy intensity 20 percent by 2020 in 190 thousand square feet of city buildings.