

2017

Sustainable Energy in America

FACTBOOK

Clean energy wins for America by lowering costs, spurring economic growth, and fostering job creation.

CONSUMER SPENDING ON ENERGY PLUMMETS

Consumers devoted **LESS THAN 4%** of their total annual household spending to energy in 2016, the smallest share ever recorded.

PRICES FOR NATURAL GAS commercial consumers **PLUNGED TO THEIR LOWEST LEVELS SINCE 1977**, in real terms.



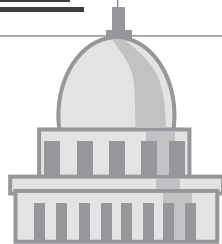
Average national retail electricity prices have **DROPPED 3.9%** in real terms since 2011. Prices fell 15% in Texas and 11% in Florida.

AMERICA IS A CLEAN ENERGY LEADER

Clean energy is **CREATING JOBS** and **GROWING THE U.S. ECONOMY.**



States like Illinois, Michigan, New York, and Ohio **ADVANCED CLEAN ENERGY POLICIES IN 2016.**



\$59 BILLION in total new investment in 2016, **2ND IN THE WORLD.**

Major corporations contracted for **2.5 GW of renewable energy capacity in 2016.** Many are also investing in energy efficiency management programs, such as ISO50001.

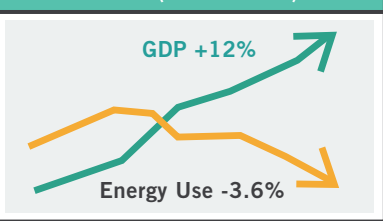


THE SUSTAINABLE ENERGY TRANSFORMATION



The energy productivity of the U.S. economy has **INCREASED BY 10%** from 2011 to 2016.

U.S. energy use declined and GDP increased (2007—2016)

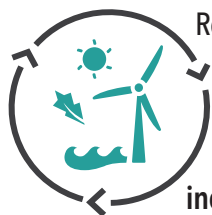


Natural gas and renewable energy generated nearly **50% OF U.S. ELECTRICITY** IN 2016, **UP FROM ONLY 38%** in 2011.

In 2016, U.S. power sector **CARBON EMISSIONS FELL** to their lowest annual level since at least 1990.



RENEWABLE ENERGY POWERS MORE OF THE U.S. GRID



Renewable energy is **22%** of the U.S. 2016 power fleet, with 244 GW of installed capacity across the country, an **83% increase over 2007 levels.**

Hydropower provided **80 GW** OF U.S. RENEWABLE CAPACITY (excluding pumped storage).



Wind and solar capacity has **INCREASED OVER 600%** since 2007 (from 16 GW to 123 GW).

Biogas, biomass, geothermal, and waste-to-energy represent **18 GW** of U.S. capacity and can **PROVIDE POWER 24/7.**



ENERGY EFFICIENCY PAYS DIVIDENDS



Electric utilities spent **\$6.3 BILLION** and natural gas utilities **\$1.4 BILLION** on energy efficiency programs in 2015, **TOGETHER TRIPLING THE AMOUNT SPENT IN 2007.**

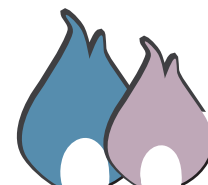
COMBINED HEAT AND POWER (CHP) represents **9%** of U.S. power generation.



Commercial Property Assessed Clean Energy (PACE) financing topped **\$45 million** in Q3 2016, up **380%** from Q3 2015 levels.

NATURAL GAS CONSUMPTION & INVESTMENT SURGE

NATURAL GAS IS THE **#1 SOURCE** of power in the U.S., contributing 34% of the electricity mix in 2016, up from 22% in 2007.



Total gas utility investment across transmission, storage, and distribution surged to **\$21.1 BILLION** in 2015.

Why the Factbook Matters

The Business Council for Sustainable Energy and Bloomberg New Energy Finance created the Factbook to arm policymakers, journalists, and industry professionals with up-to-date, accurate market information about the U.S. energy landscape. #Factbook

www.bcse.org/sustainableenergyfactbook