

2018

Sustainable Energy in America

FACTBOOK

Clean energy delivers for America – more jobs, increased economic growth, greater energy productivity, and fewer emissions.

POWERING THE U.S. ECONOMY



Clean energy and energy efficiency support

OVER 3 MILLION JOBS (2016).

THE U.S. OUTCOMPETES OTHER COUNTRIES in 2016 with low industrial power prices.



\$57 BILLION IN TOTAL NEW INVESTMENT in 2017, **2ND** in the world.

The energy productivity of the U.S. economy **HAS GROWN 17.3%** since 2008.

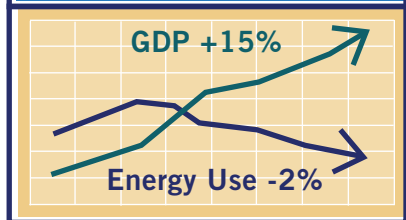


THE TRANSFORMATION KICKS INTO HIGHER GEAR



Natural gas and renewable energy generated **50%** OF U.S. ELECTRICITY in 2017, up from 31% in 2008.

U.S. GDP and Energy Use (2008-2017)



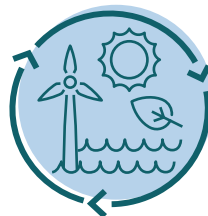
For the first time, the U.S. became a **NET EXPORTER OF NATURAL GAS** every month in 2017.

Corporations are investing in renewable energy and energy efficiency. Off-site renewables contracts totaled **2.9 GW** in 2017, **2ND HIGHEST LEVEL ON RECORD.**



RENEWABLE ENERGY SOARS IN 2017

RENEWABLE ENERGY PROVIDES **18%** OF TOTAL U.S. power generation, **DOUBLE** its contribution in 2008.



HYDROPOWER generation – excluding pumped storage – **ROSE 13.3%**.



Wind and solar capacity has **INCREASED OVER 471%** since 2008 (from 25 GW to 143 GW).

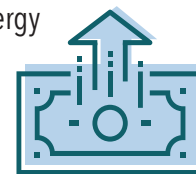


Biogas, biomass, geothermal, and waste-to-energy represented **16.7 GW** of U.S. capacity in 2017 and can **PROVIDE POWER 24/7.**



ENERGY EFFICIENCY PAYS DIVIDENDS, STRENGTHENS ECONOMY

Total U.S. spending on energy efficiency through formal frameworks climbed in 2016 to a record level of **\$14.5 BILLION.**



Electric utilities spent **\$6.3 BILLION** and natural gas utilities spent **\$1.3 BILLION** on energy efficiency programs in 2016.

Combined heat and power (CHP) represented **8.5%** of U.S. power generation in 2017.



NATURAL GAS CONSUMPTION AND INVESTMENT SURGE

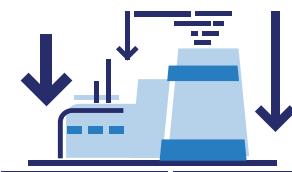
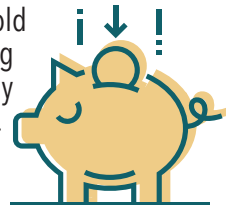
NATURAL GAS IS THE **#1 SOURCE OF POWER IN THE U.S.**, contributing 32% of the electricity mix in 2017, up from 22% in 2008.



Total gas utility investment across transmission, storage, and distribution surged to **\$25 BILLION** in 2016, a **19% INCREASE** FROM 2015.

MORE MONEY IN YOUR POCKET AND CLEANER AIR

Consumers devoted **LESS THAN 4%** of their total annual household spending to energy in 2017.



In 2017, U.S. power sector **GHG emissions fell 4.2%** to the lowest annual level since at least 1990.

Average national retail electricity prices have **DECLINED 5.8%** on average since their peak in 2008.



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