

# 2019 Sustainable Energy in America Factbook

## POWERING THE U.S. ECONOMY

The **energy productivity** of the U.S. economy has **GROWN 14%** since 2009.

Clean energy and energy efficiency support over **3 MILLION JOBS** (2017).

\$64 **BILLION** in total new clean energy investment in 2018, **up 11% since 2017**.

The U.S. **OUTCOMPETED** other countries in 2017 with low industrial power prices.

## ENERGY EFFICIENCY PAYS DIVIDENDS, STRENGTHENS ECONOMY

U.S. spending on energy efficiency through formal frameworks - utilities, ESPCs and PACE - climbed to a record **\$15 BILLION IN 2017**.

Connecticut, Florida, Pennsylvania and Virginia **strengthened their state building energy codes** in 2018.

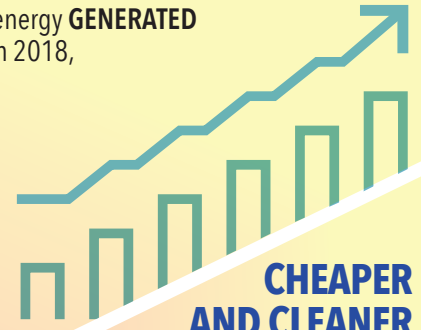
**Combined heat and power (CHP)** represented **8.5%** of U.S. power generation in 2018.



## SUSTAINABLE ENERGY PROVIDES MAJORITY OF U.S. ELECTRICITY

Natural gas and renewable energy **GENERATED 53% OF U.S. ELECTRICITY** in 2018, up from 35% in 2009.

Corporations are **investing in renewable energy and energy efficiency**. Renewables contracts totaled **8.6 GW IN 2018, THE HIGHEST AMOUNT EVER**.



## CHEAPER AND CLEANER ENERGY

In 2018, the **carbon intensity of the power sector DECLINED 0.7%**.

Consumers dedicated a **RECORD LOW share of their household spending** to electricity (1.3%) and natural gas (0.4%) in 2018.

Electric vehicle **SALES ROSE NEARLY 80%** in 2018.



## NATURAL GAS USE AND INVESTMENT SURGE

**NATURAL GAS IS THE #1 SOURCE OF POWER** in the U.S., contributing 35% of the electricity mix in 2018, up from 24% in 2009.

Total gas utility investment across transmission, storage and distribution surged to **\$27.5 billion in 2017**, a 9.4% increase from 2016.

Natural gas use in vehicles has seen an annual **GROWTH RATE OF 5.3%** since 2008.

There were **2,240** operational biogas systems in the U.S. in 2018, with **\$316 MILLION OF NEW** investment in biogas systems that year.



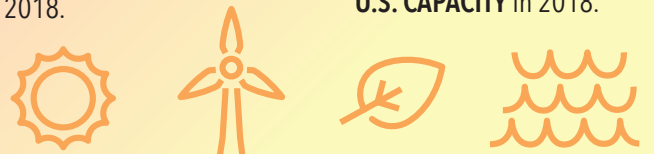
## RENEWABLE ENERGY EXPANDS IN 2018

Renewable energy **provides 18%** of total U.S. power generation, up from 11% in 2009.

Hydropower was the **LARGEST SOURCE** of zero-carbon, renewable generation in 2018.

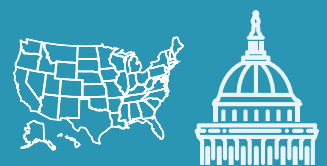
Wind and solar capacity has more than **QUADRUPLED** since 2009 (from 36.2 GW to 164.6 GW).

Biogas, biomass, waste to energy and geothermal represented **16.5 GW OF U.S. CAPACITY** in 2018.



## THE POLICY LANDSCAPE

Moving forward, smart policies that leverage business investment in energy efficiency, natural gas and renewable energy are critical to accelerate deployment and emissions reductions in all sectors of the economy. Federal, state and local governments, in partnership with the business community, should align initiatives to send strong and enduring market signals for economy-wide clean energy investment.



## WHY THE FACTBOOK MATTERS

The Business Council for Sustainable Energy and BloombergNEF created the Factbook to arm policymakers, journalists, and industry professionals with up-to-date, accurate market information about the U.S. energy landscape. **#GetTheFacts #Factbook [WWW.BCSE.ORG/FACTBOOK](http://WWW.BCSE.ORG/FACTBOOK)**