EPA’s energy partnership programs

- State and Local Energy and Environment Program
- ENERGY STAR
  - Products, Homes, Commercial Buildings, and Industry
- Green Power Partnership
- Combined Heat & Power Partnership
- Center for Corporate Climate Leadership
The challenge and opportunity of existing buildings

2018 U.S. TOTAL ENERGY USE BY ECONOMIC SECTOR (TRILLION BTUS)
- Transportation: 28%
- Residential: 21%
- Commercial: 18%
- Industrial: 33%

2017 U.S. GREENHOUSE GAS EMISSIONS BY ECONOMIC SECTOR (MMT CO₂EQ)
- Transportation: 37%
- Residential: 19%
- Commercial: 17%
- Industrial: 27%

Source: EIA Monthly Energy Review – Table 2.1
Source: EPA U.S. Greenhouse Gas Inventory
Interim Review Period Progress

ENERGY STAR Tools and Resources to Support Your Work in Commercial & Industrial

- Portfolio Manager
- Data access/web services
- ENERGY STAR certification
- Tenant space recognition
- Challenge for Industry
- Competition Guide
- Treasure Hunt resources
- Online help/training
- Implementation support
- …and more!

http://www.energystar.gov/state
Recent examples of how states use ENERGY STAR in C&I

- State-wide Policy
  - Commercial building benchmarking and disclosure (policy map)
  - Benchmarking of State-owned buildings
  - Automate utility data exchange into Portfolio Manager
- Host Energy Efficiency **Competitions**
- Promote **Treasure Hunts**
- **Sector Engagement**
  - K-12 Schools
  - Distilleries
- Framework for **incentives**
  - Certification
  - EE Improvement
New resources from ENERGY STAR for saving energy in existing homes

- **Air-source heat pumps**: revised specification, upcoming guide & awareness campaign
- **Heat pump water heaters**: replacement guide, installer finder, and education
- **Connected products**: 12 categories
- **Smart Home Energy Management Systems (SHEMS)**
- **EV chargers**: Level 1 & 2, DC fast chargers coming this summer 2020
- Exploring more for existing homes
- …and more!
Opportunities for recognition in your state...

Annual ENERGY STAR Partner of the Year Awards

State by State fact sheets for ENERGY STAR: www.energystar.gov/statefacts
Making the case for energy efficiency

- Analysts can use EPA’s AVERT and COBRA models and new Health Benefits per-Kilowatt Hour values to credibly quantify the emissions and monetized health impacts of energy efficiency and renewable energy programs, policies, and scenarios.


- EE or RE Programs, policies, or projects

- Estimate changes in electricity generation
- Estimate changes in emissions of CO₂, NOₓ, and primary PM₂.⁵

- Estimate changes in air quality (primary and secondary PM₂.⁵)
- Estimate dollar value of public health benefits

- Regional factors for estimating the monetized health benefits of kWh saved through EE or generated through RE
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