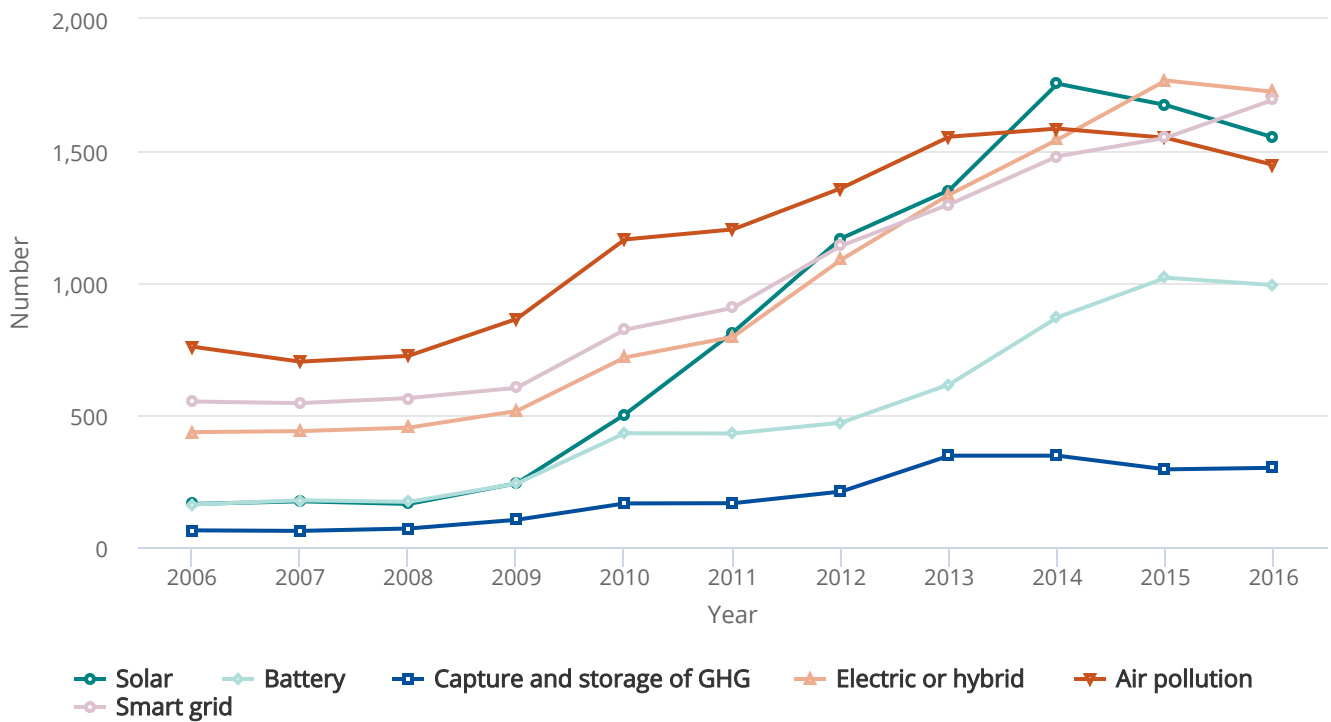


FIGURE 6-47

### USPTO patents in sustainable energy technologies, by selected technology: 2006–16



GHG = greenhouse gas; USPTO = U.S. Patent and Trademark Office.

**Note(s)**

Sustainable energy technologies include alternative energy, energy storage, smart grid, and pollution mitigation. Alternative energy includes solar; wind; nuclear; fuel cell; hydropower; wave, tidal, ocean; geothermal; and electric or hybrid. Energy storage includes batteries, compressed air, flywheels, superconductivity, magnet energy systems, ultracapacitors, hydrogen production and storage, and thermal energy. Pollution mitigation includes recycling; control of air, water, and solid waste pollution; environmental remediation; cleaner coal; and capture and storage of carbon and other GHGs. Technologies are classified by The Patent Board. Patent grants are fractionally allocated among regions or countries on the basis of the proportion of the residences of all named inventors.

**Source(s)**

Science-Metrix, PatentsView, and USPTO patent data. See Appendix Table 6-57.

*Science and Engineering Indicators 2018*