

WIDRC Interconnection Forum

COREY SINGLETARY, PUBLIC SERVICE COMMISSION OF WISCONSIN
&
TYLER HUEBNER, RENEW WISCONSIN

Strategic Energy Assessment 2022 (5-ES-108)

Released August 2016

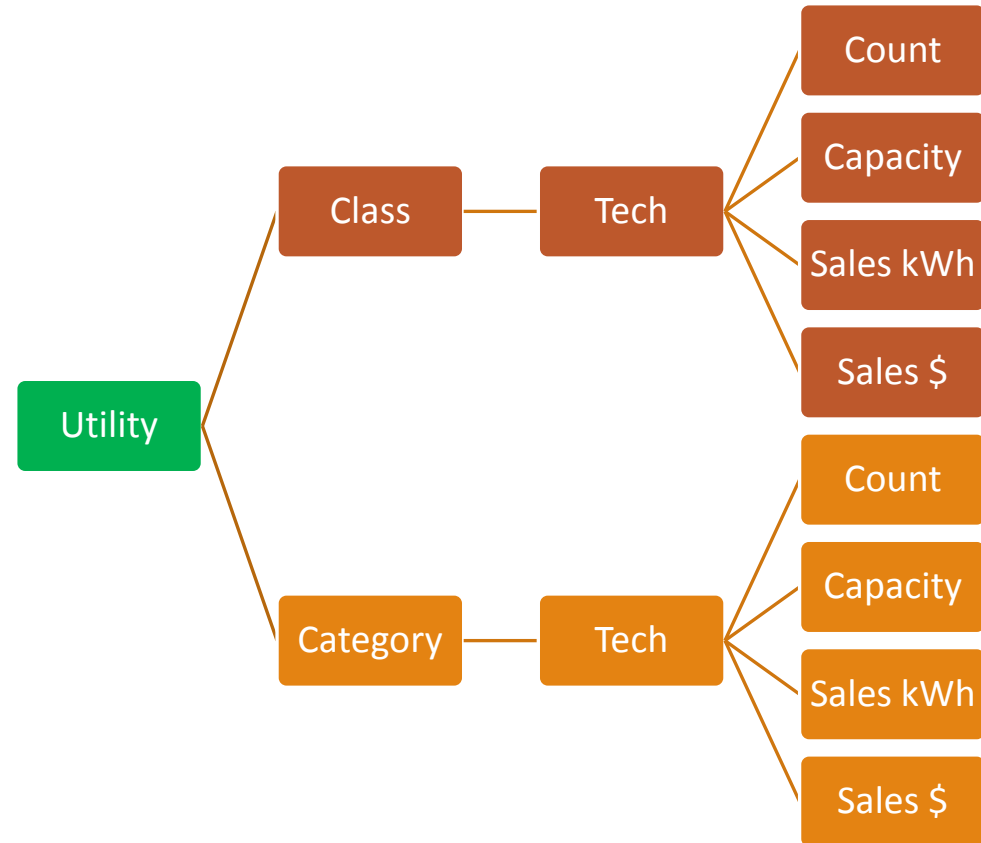
First statewide inventory of customer owned DER using utility data

2008-2015

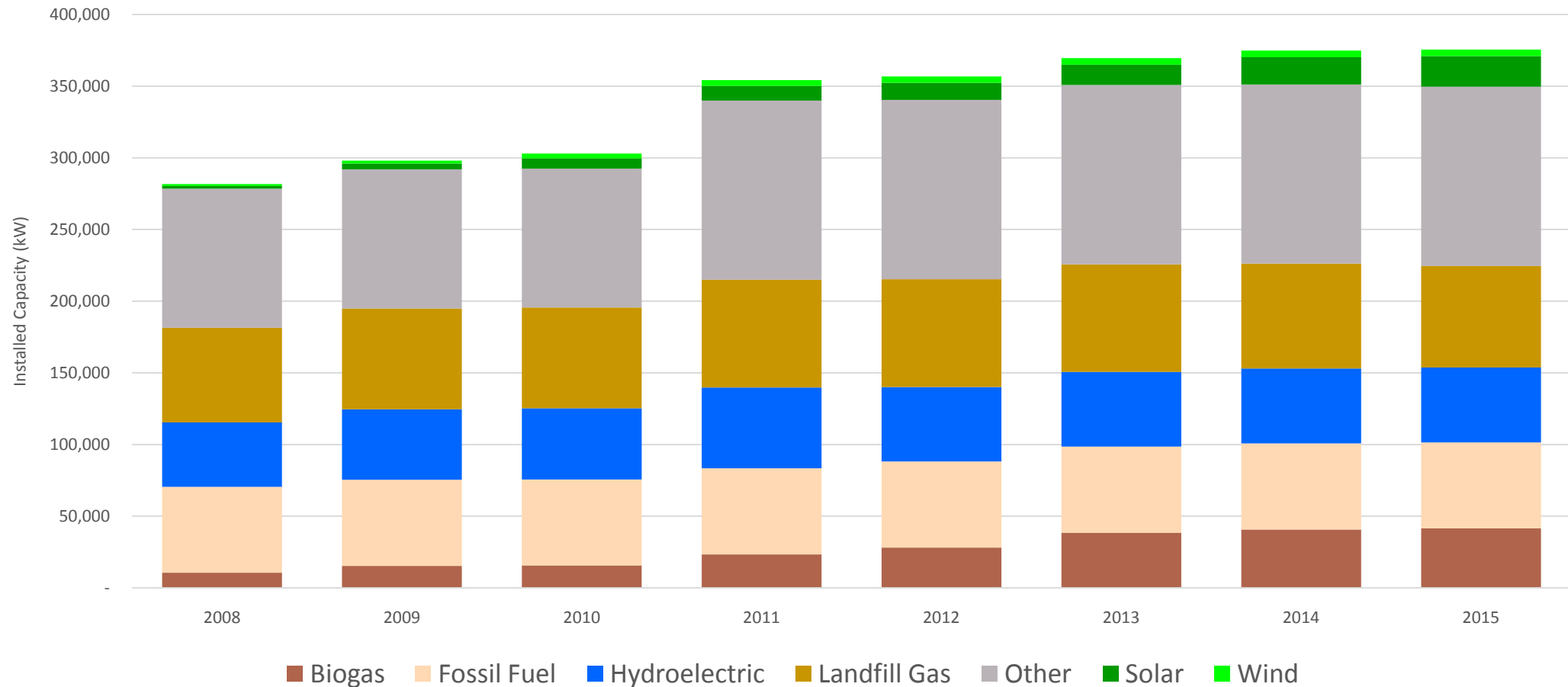
- 2015 partial year data
- 2015 data unavailable for co-ops

Data structure

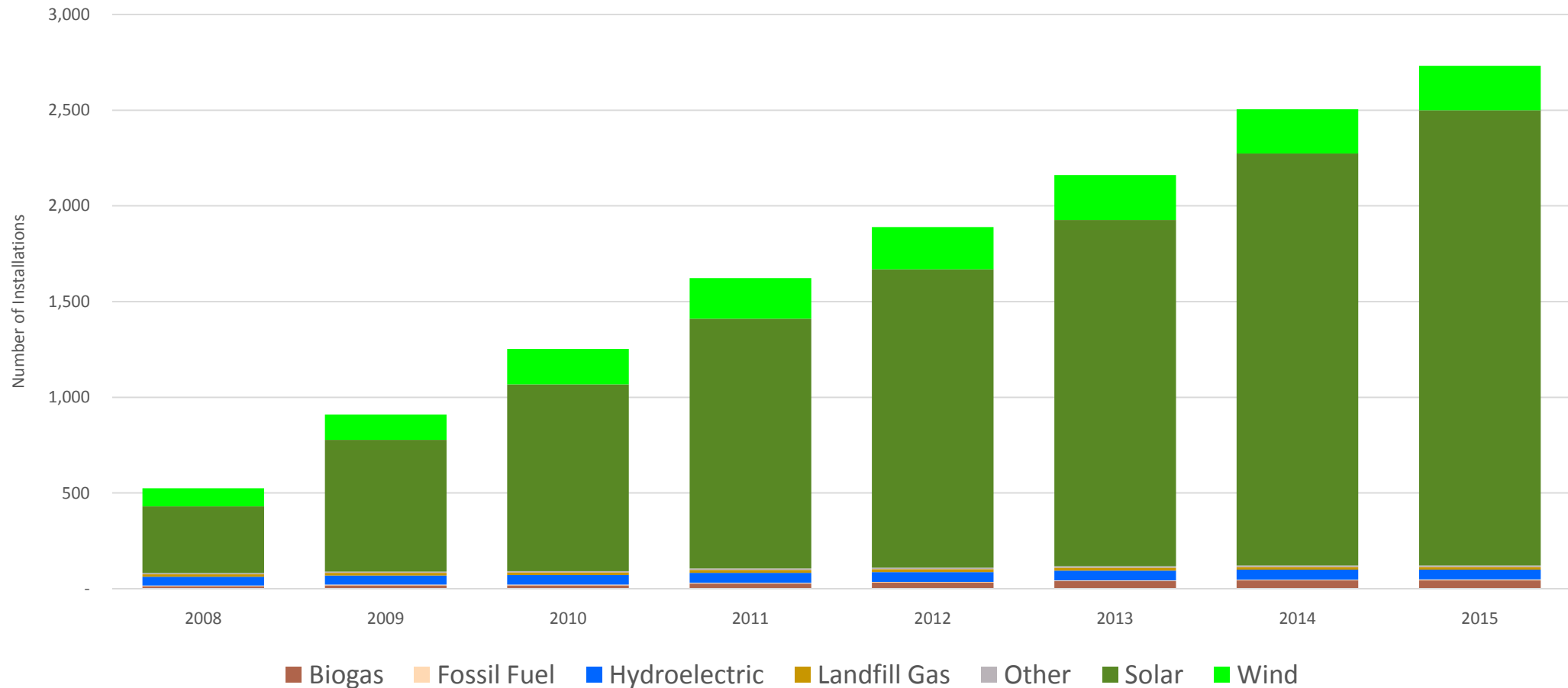
- Data by customer class not available for co-ops



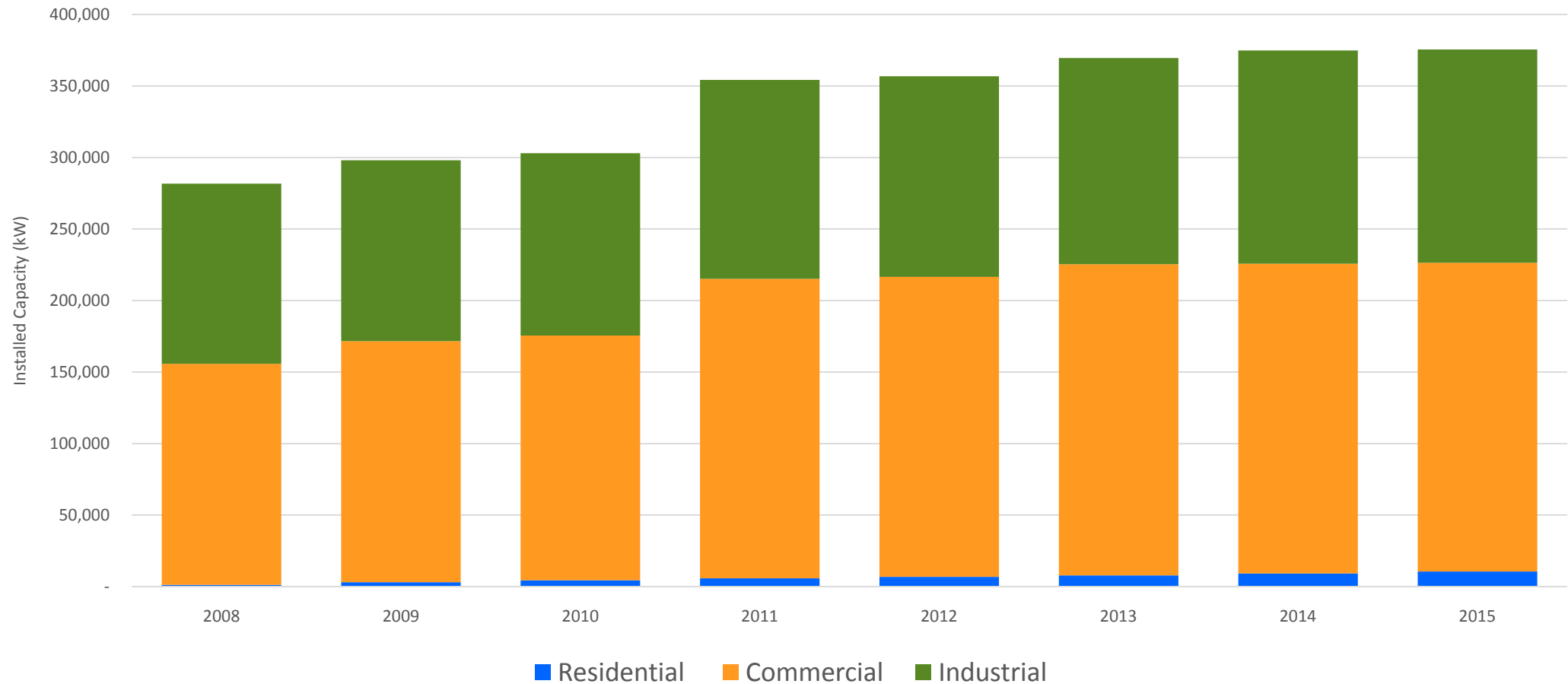
Installed Capacity by Technology



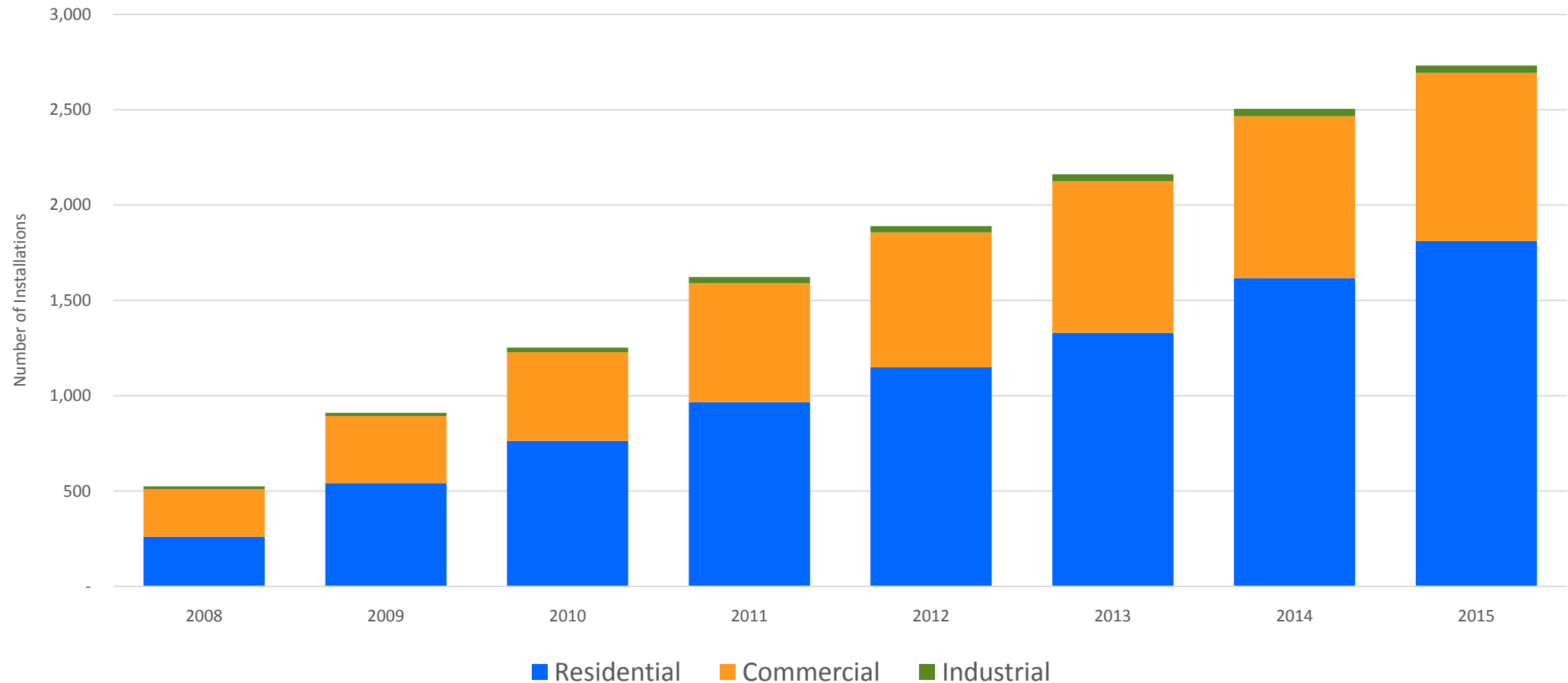
Number of Installations by Technology



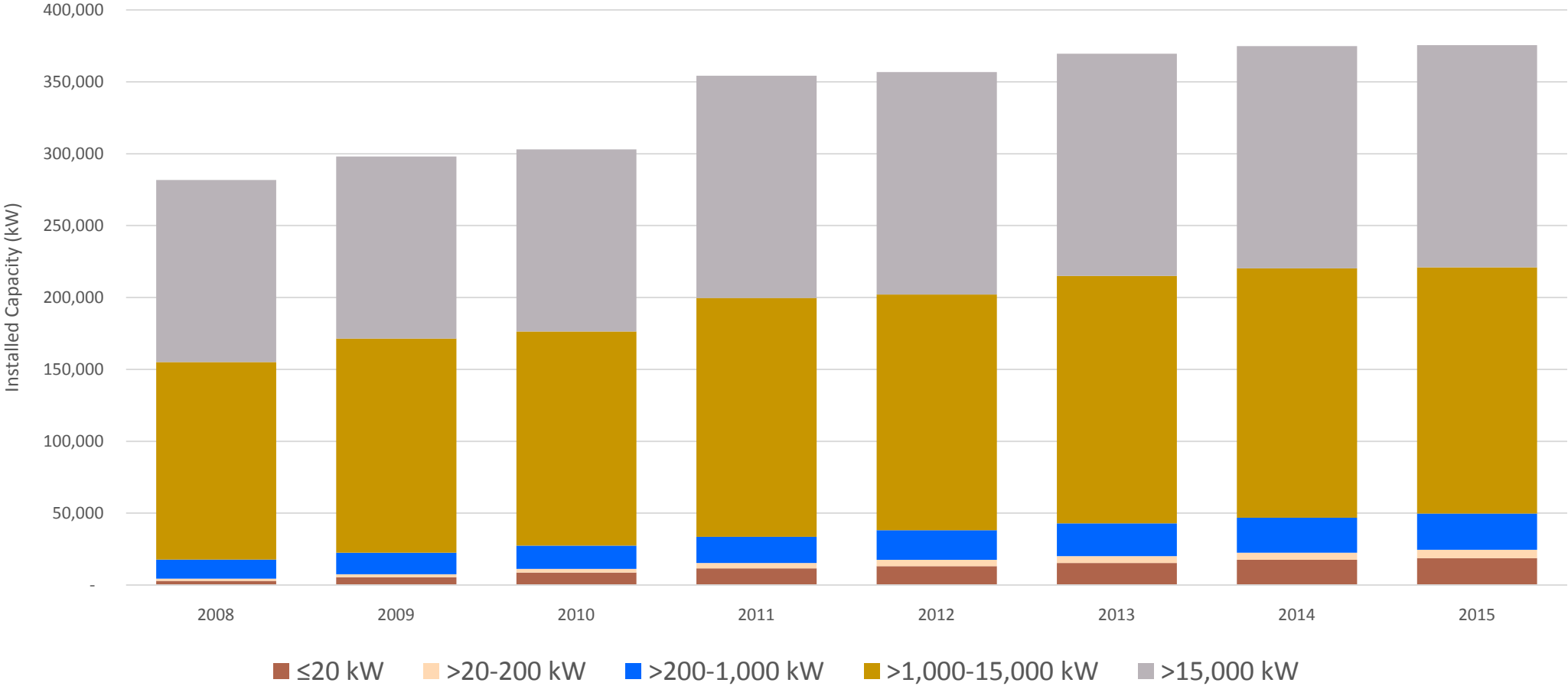
Installed Capacity by Customer Class



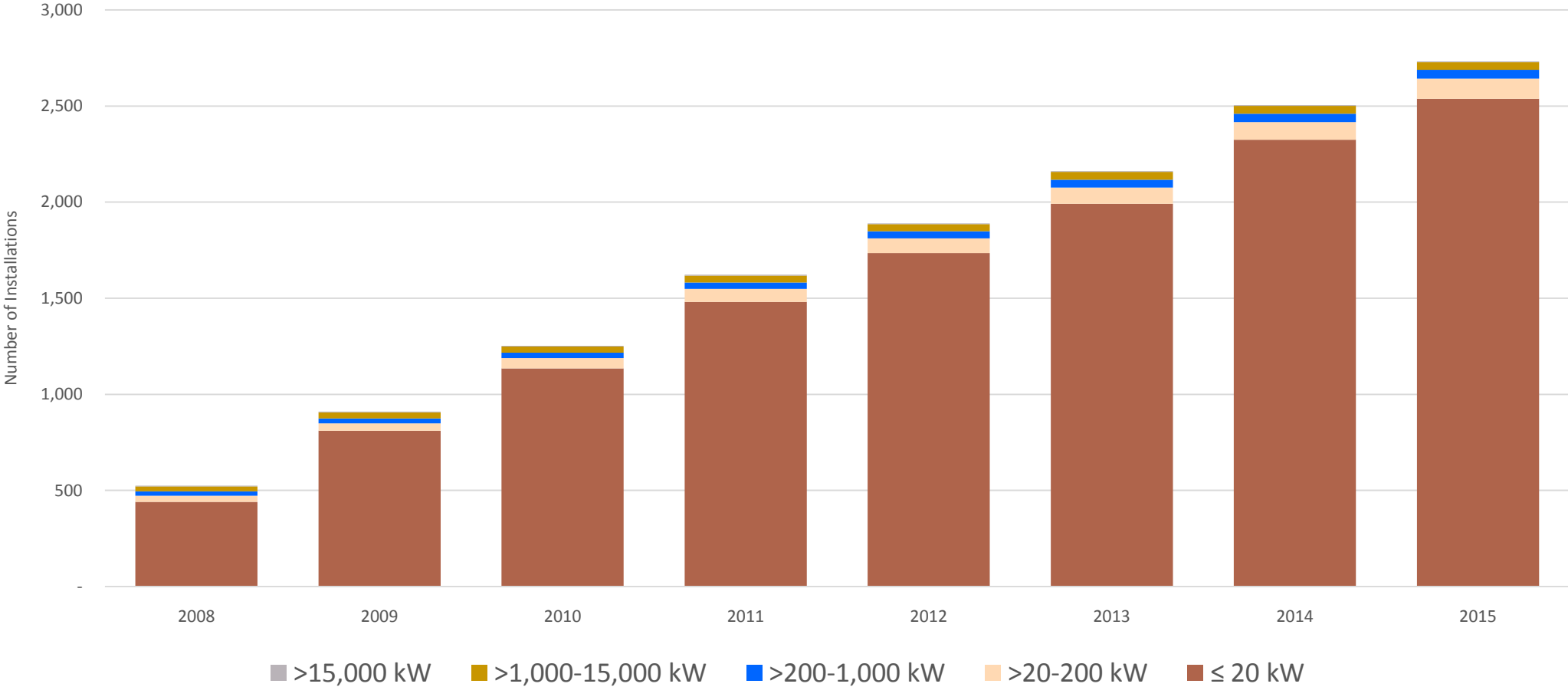
Number of Installations by Customer Class



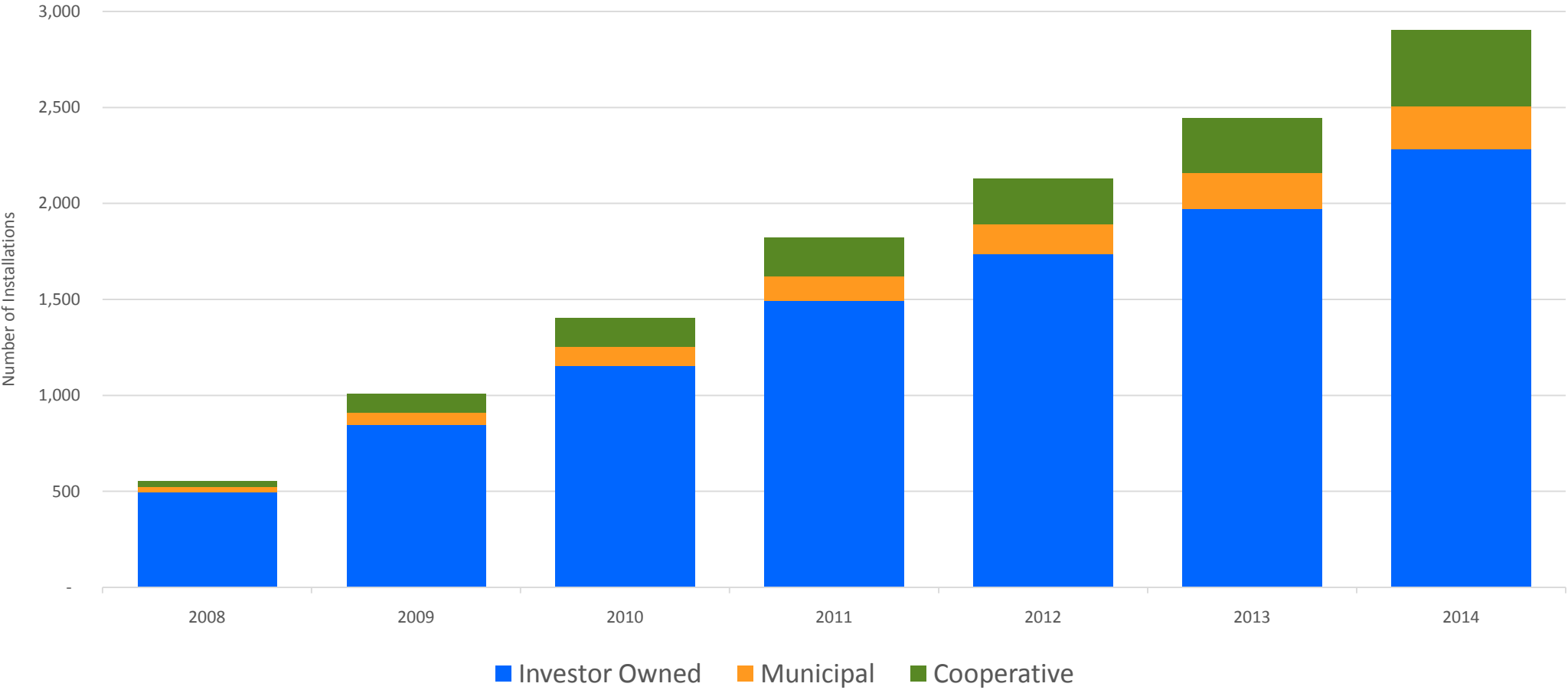
Installed Capacity by Installation Size



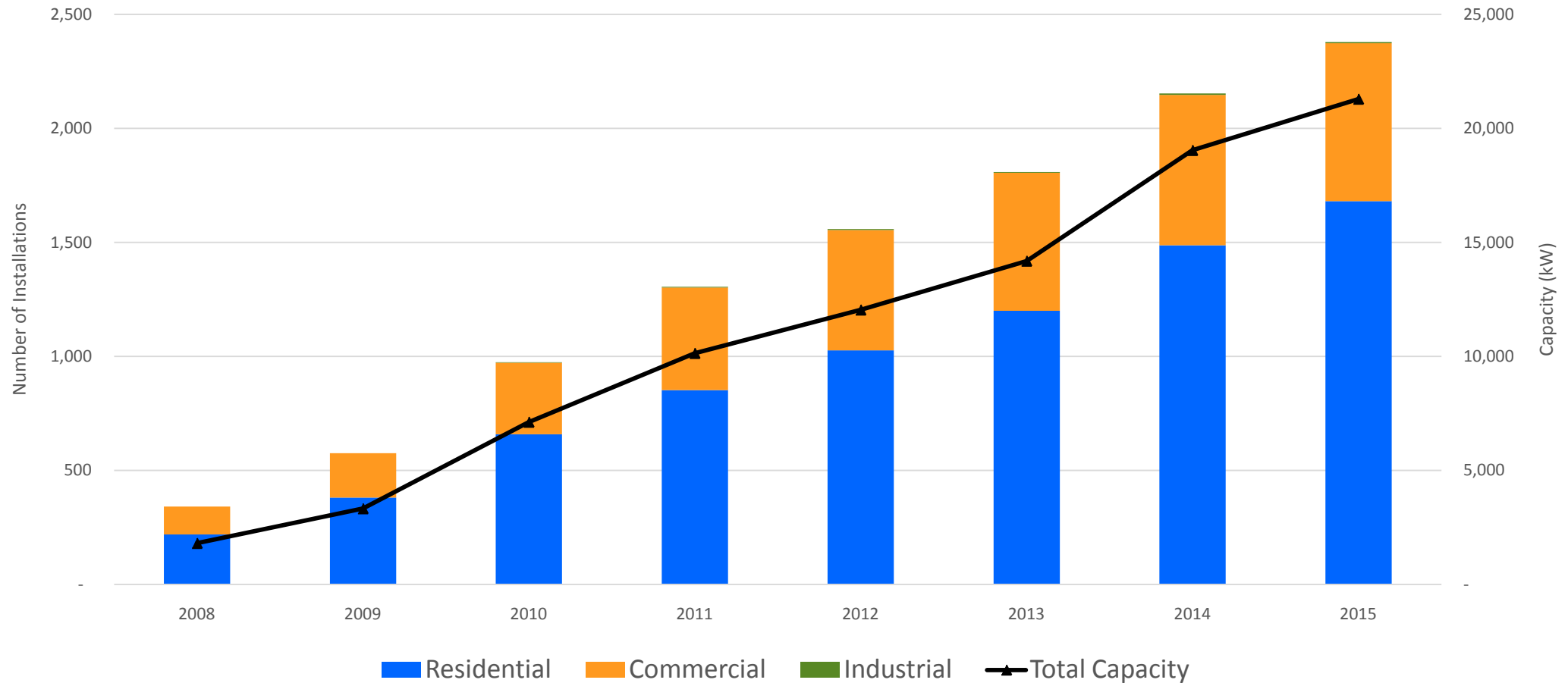
Number of Installations by Size



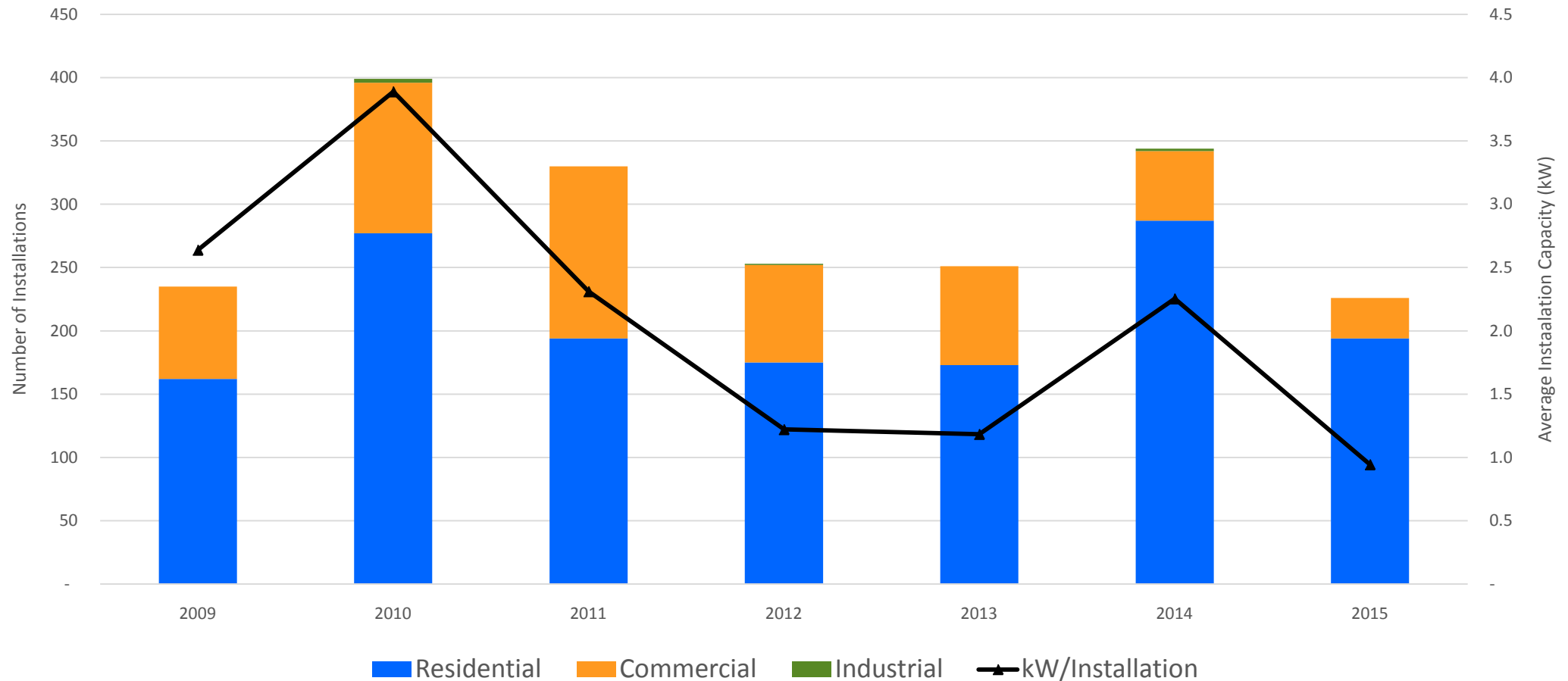
Number of Installations by Utility



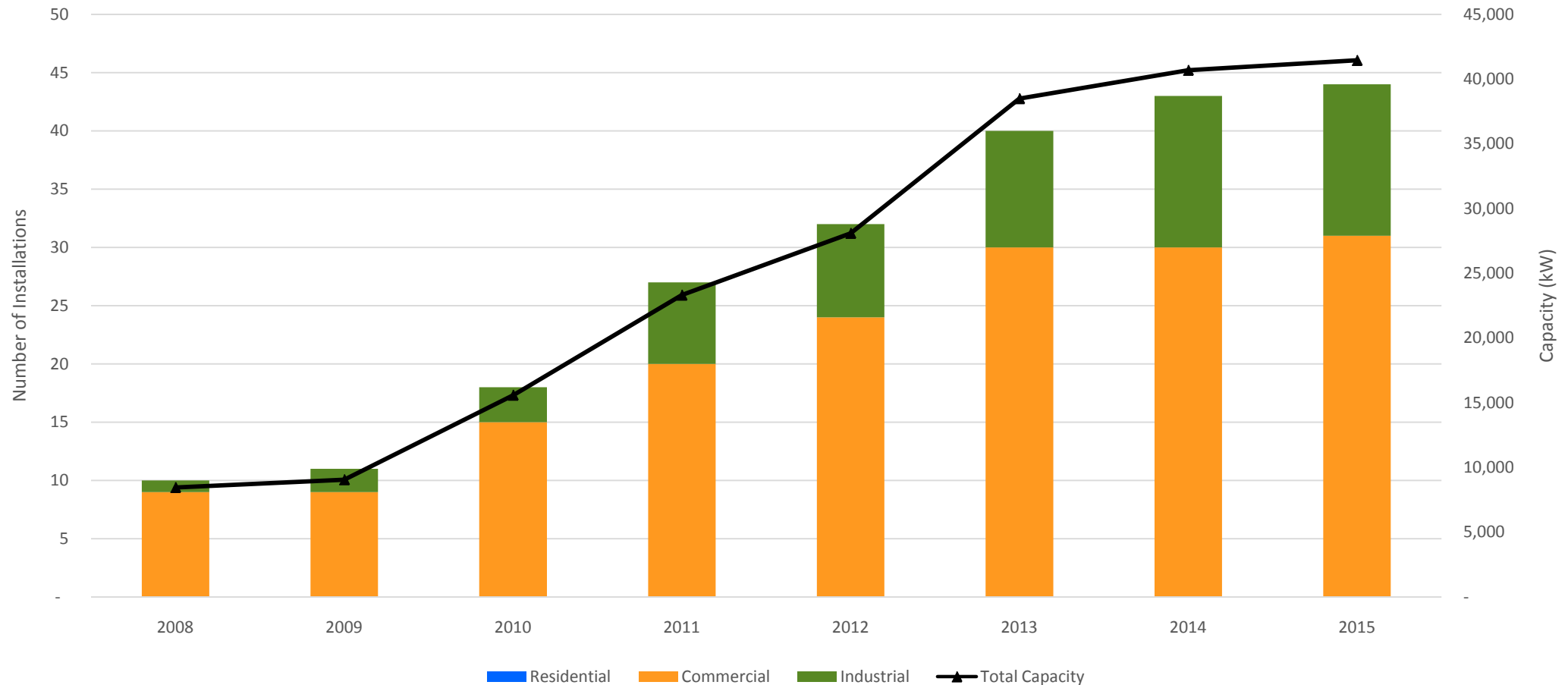
Total DG Solar In Service



Solar Additions



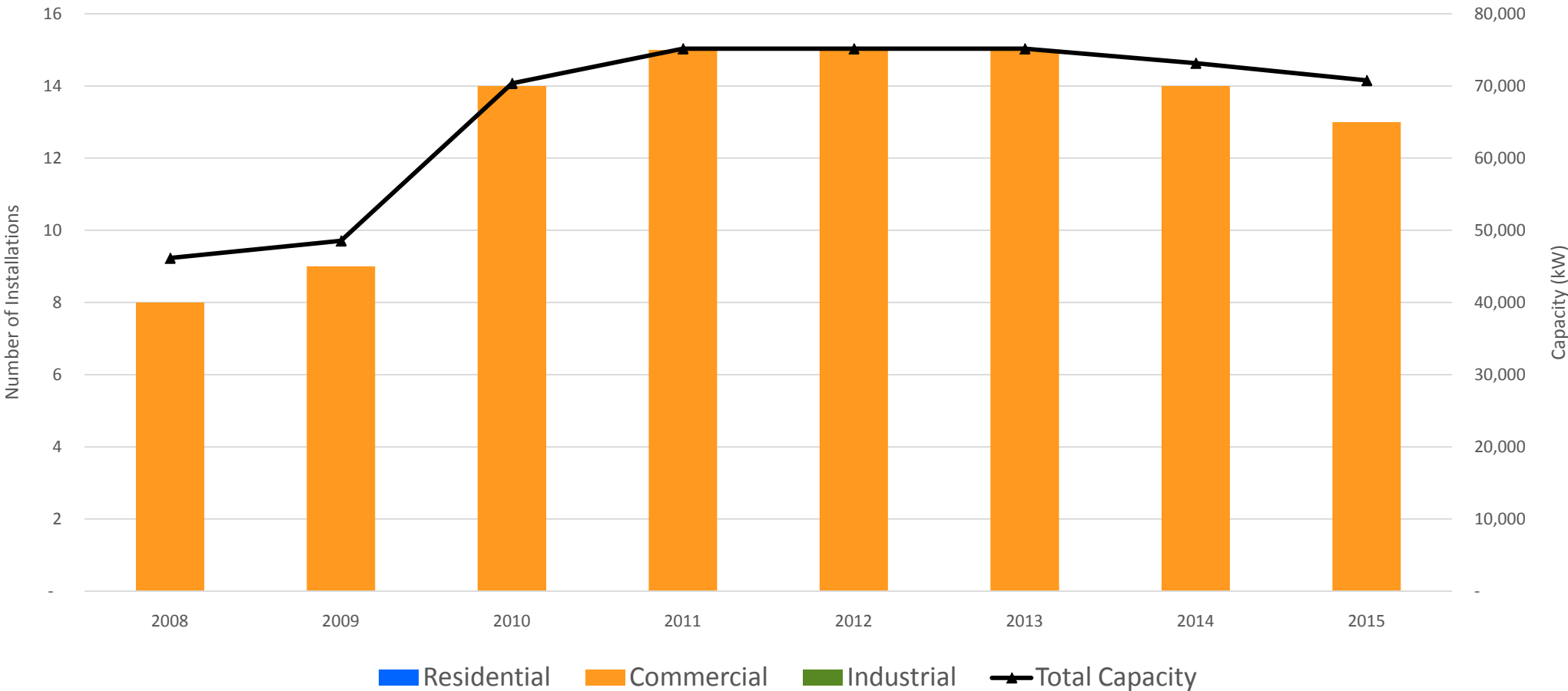
Total Biogas In Service



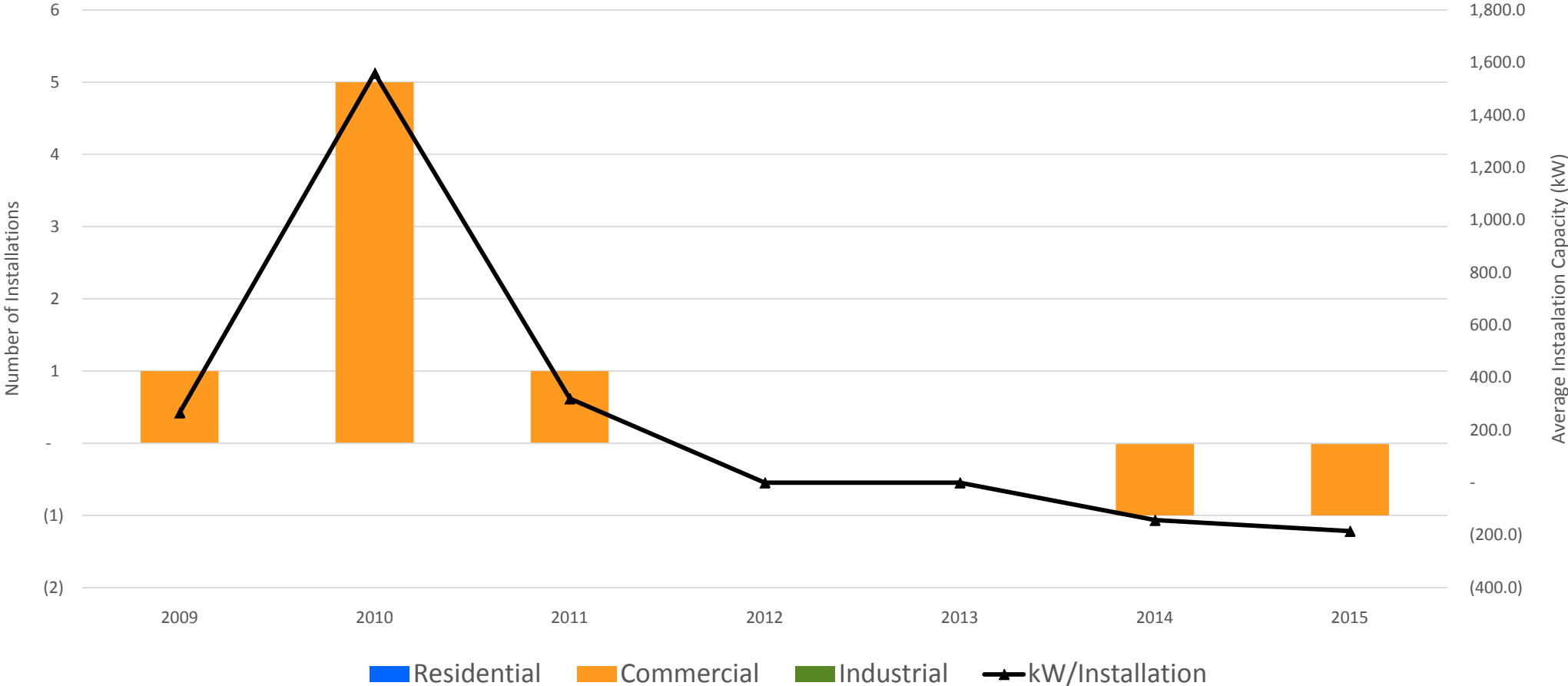
Biogas Additions



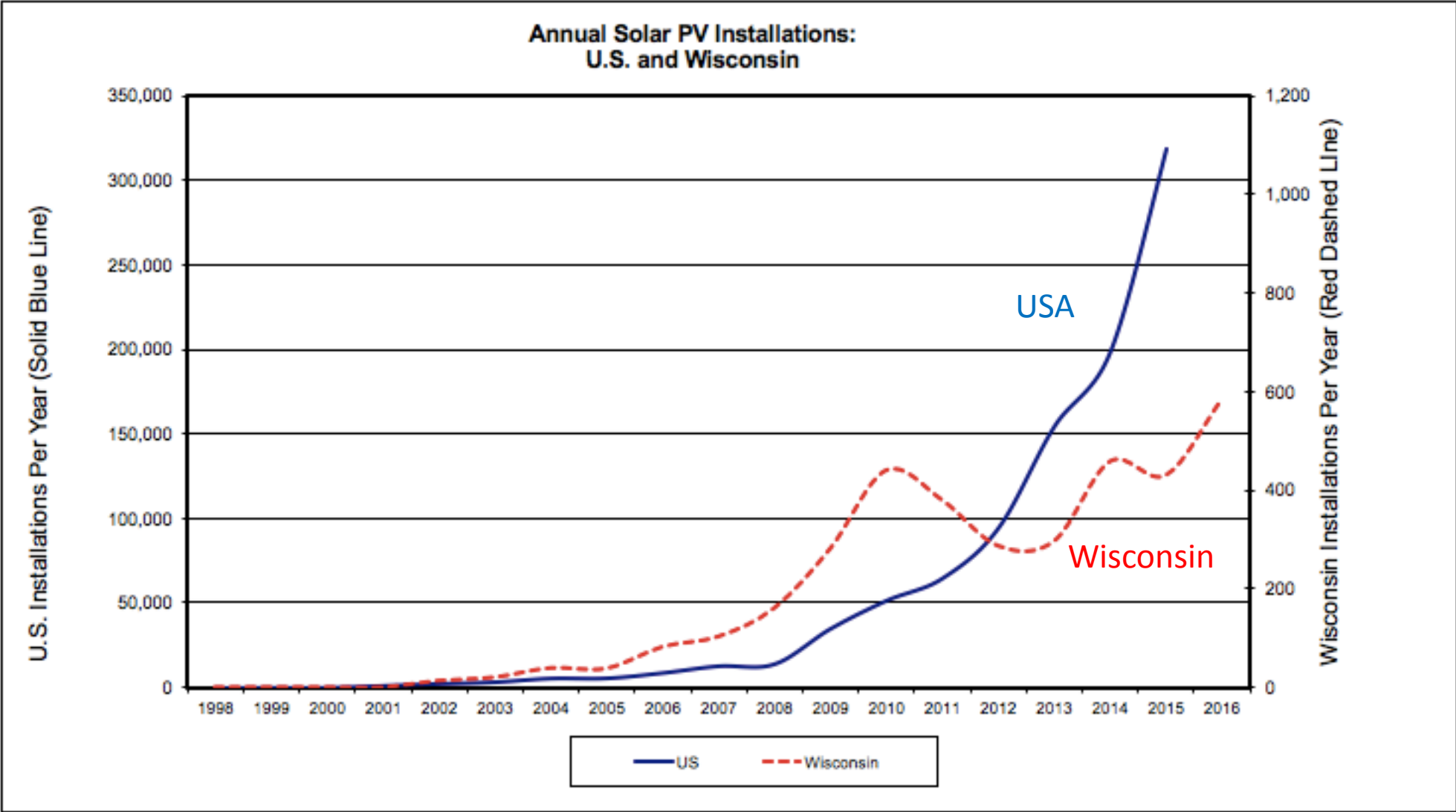
Landfill Gas In Service



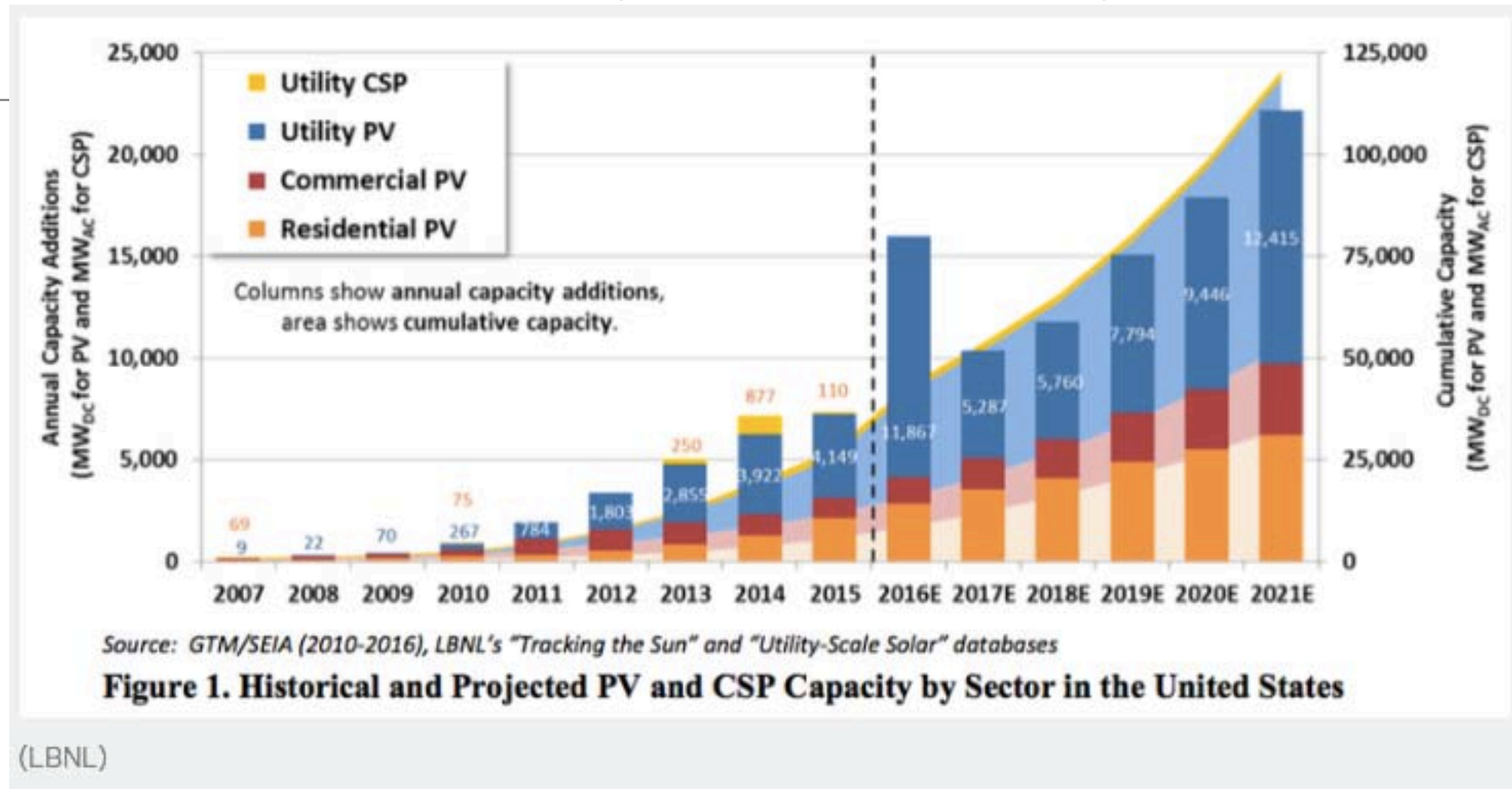
Landfill Gas Additions



Solar PV Deployment Trend Comparison



U.S. Solar Deployment History & Outlook

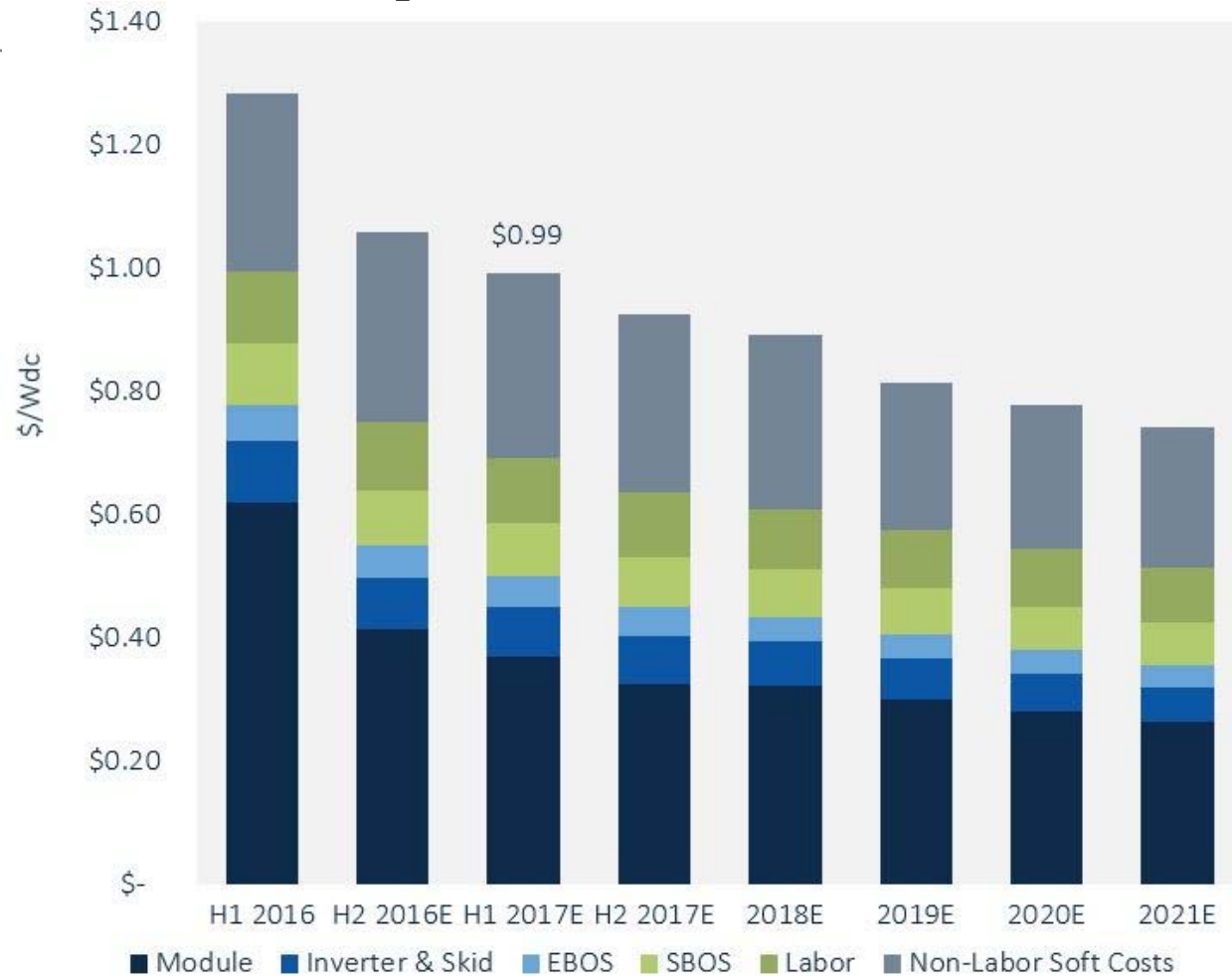


Solar Cost History



Solar Cost Outlook for Utility-Scale PV

\$1.10 / Watt today → \$0.80 / Watt by 2021

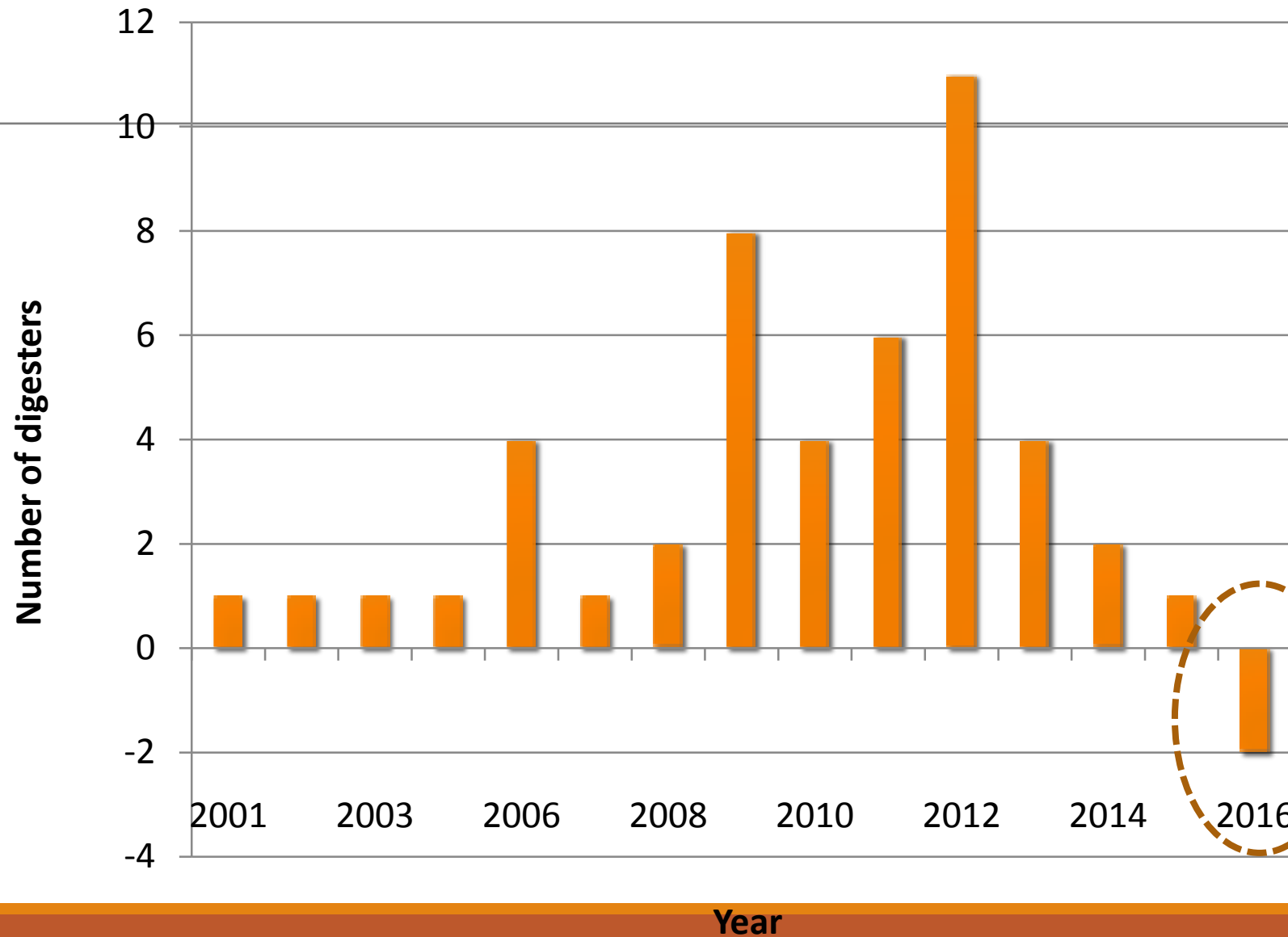


Biogas Electric Generation



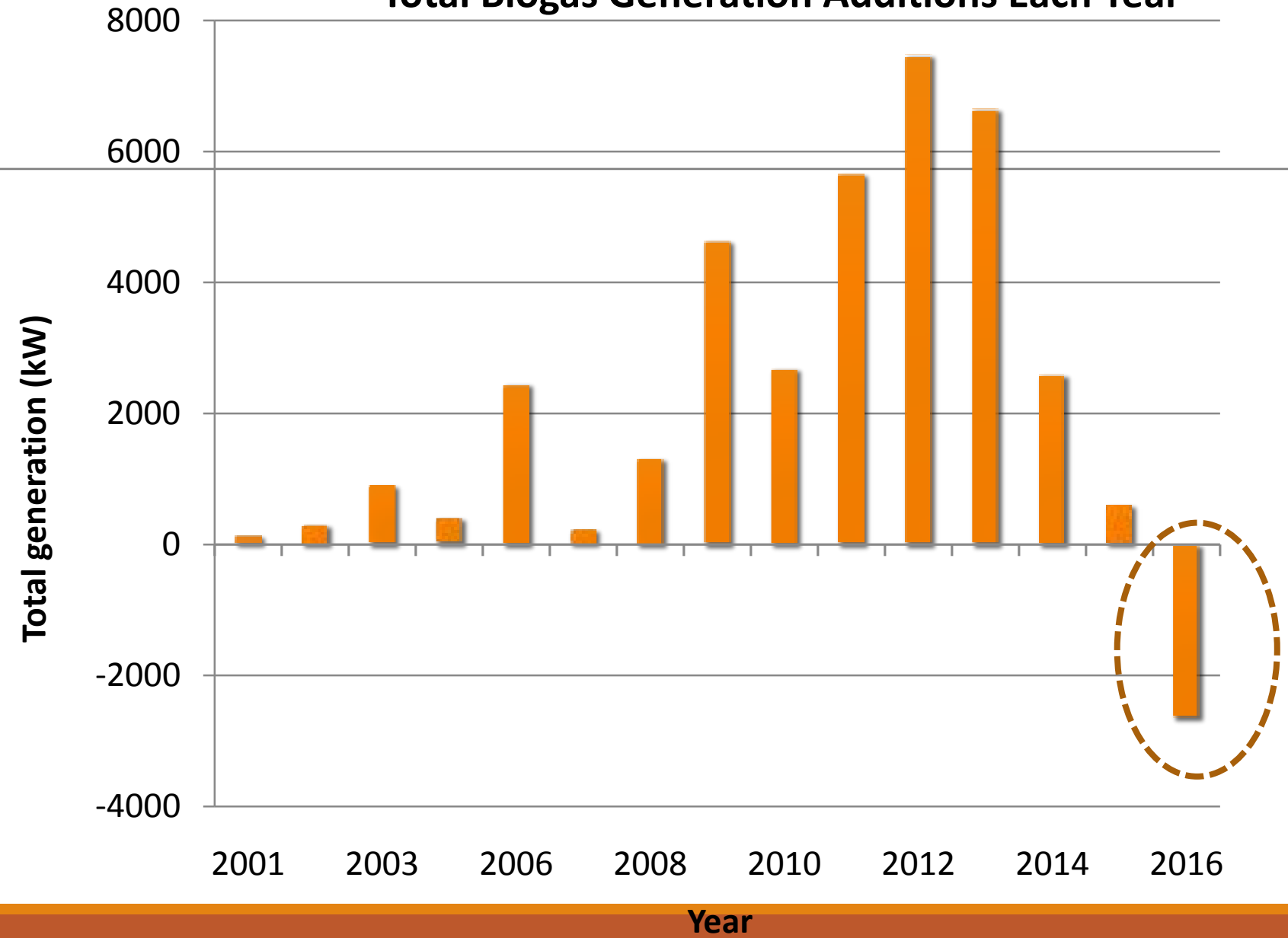
Year

Number of Biogas Generators Added Each Year



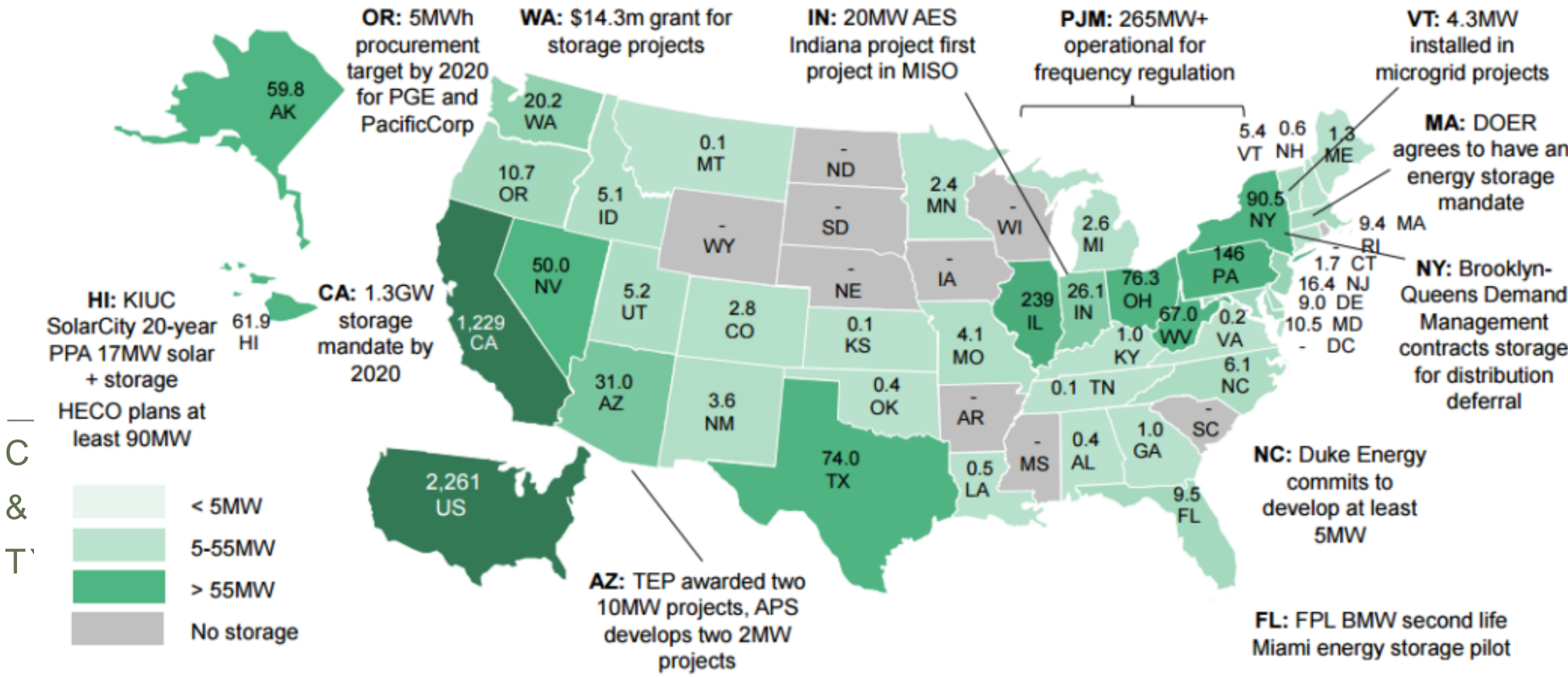
At least 2 farms stopped generating electricity in 2016

Total Biogas Generation Additions Each Year



Over 2 MW of biogas generation went offline in 2016

Energy Storage Status: 41+ states have projects



Thank You

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