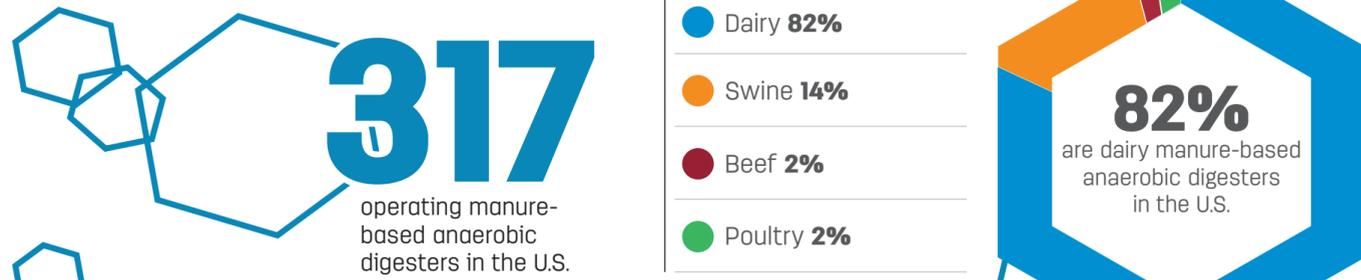


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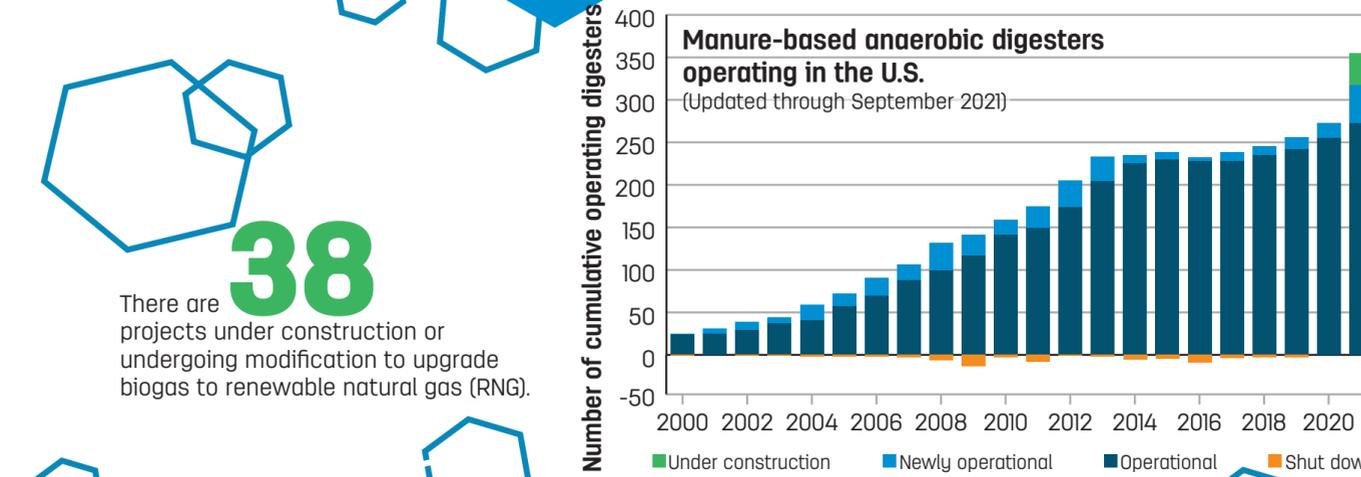
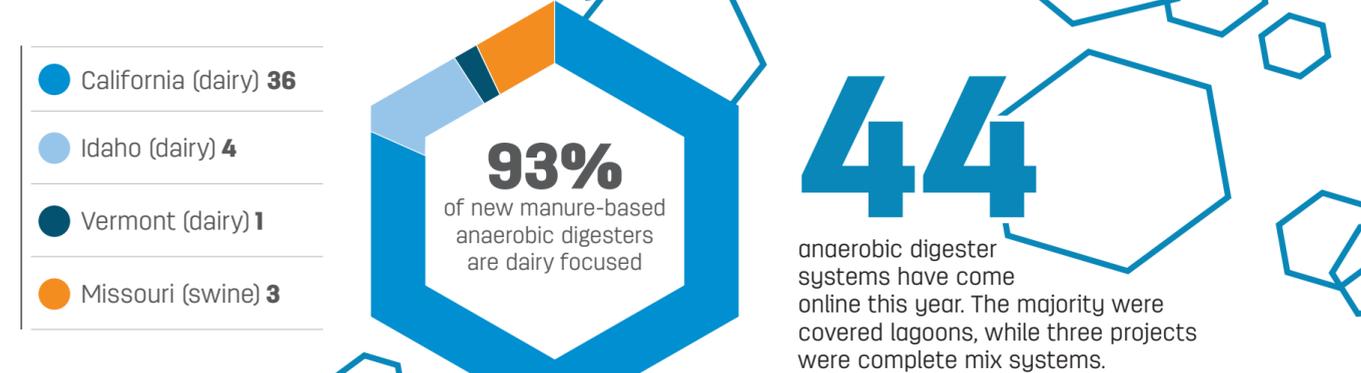
Digester database updates show large spike in RNG

In early November, AgSTAR announced updates to its comprehensive U.S. livestock anaerobic digester database. New projects, as well as updates to existing or planned projects, are now up to date through September 2021. Here are some highlights:

Total projects in the U.S.

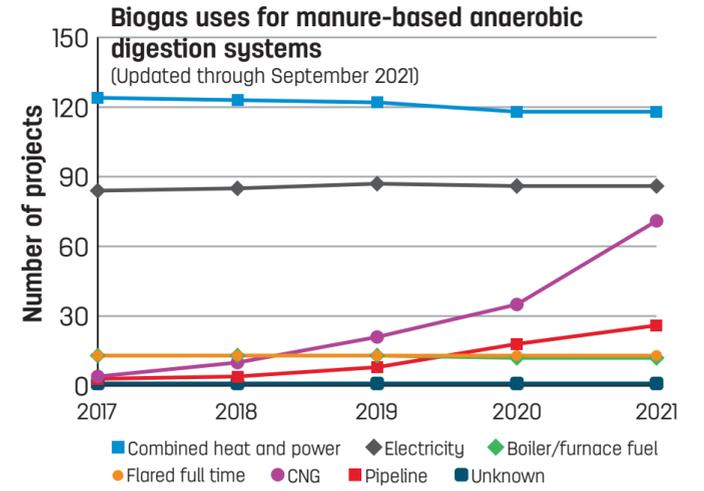


New projects added in 2021

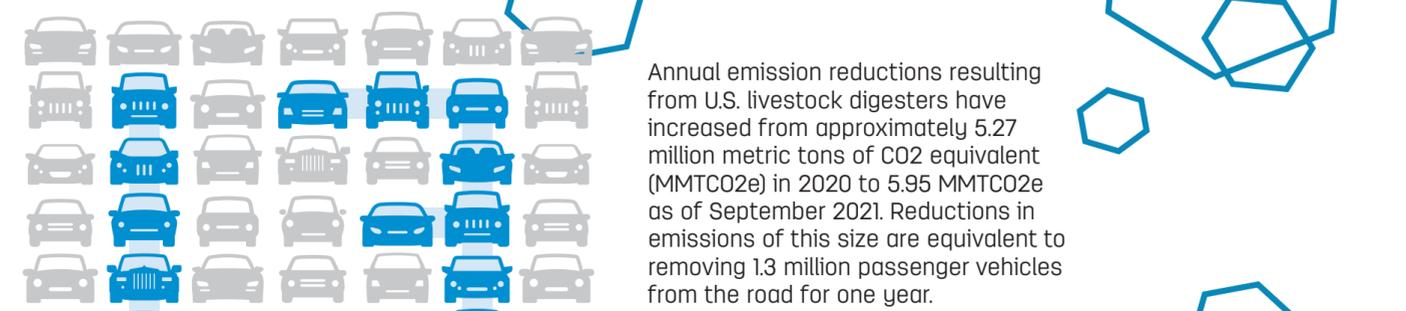


Renewable natural gas grows

RNG projects, including pipeline injection and compressed natural gas (CNG) for vehicle fuel or other uses, have risen steadily and significantly since 2017. There are currently 97 manure-based anaerobic digester systems producing RNG, up from only seven projects five years ago. The rise in the number of systems producing CNG has been particularly sharp in the last year. All 44 of the anaerobic digester systems that have come online this year are producing renewable natural gas (RNG). Most of the additional 38 systems currently under construction are intended to produce RNG as well, either for pipeline injection or use as vehicle fuel. Seven existing power generation projects are in the construction phase to switch to RNG production, and several more RNG project conversions are in the planning and development stages.

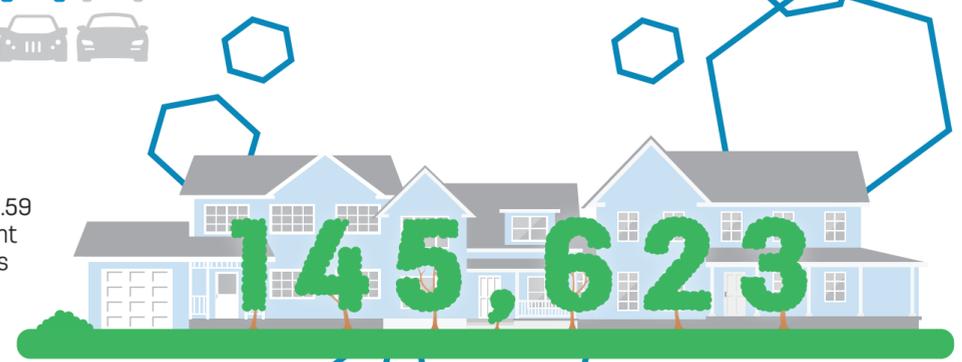


Emission reductions



Energy production

Annual energy production from U.S. livestock digesters has increased from 1.59 million megawatt hours (MWh) equivalent in 2020 to 1.73 million MWh equivalent as of September 2021. Energy production of this amount is equivalent to 145,623 homes' annual electricity use.



Editor's note: AgSTAR compiles this data from a variety of voluntary sources. AgSTAR cannot guarantee the accuracy of the information in the anaerobic digester database, and recognizes it is not exhaustive and may not include data for every U.S. livestock farm anaerobic project.