



# CELEBRATING 20 YEARS OF ANAEROBIC DIGESTION

PROMOTING THE USE OF BIOGAS RECOVERY SYSTEMS TO REDUCE METHANE EMISSIONS FROM LIVESTOCK WASTE

## BUILDING ON 20 YEARS OF SUCCESS

### EMISSIONS REDUCTIONS FROM LIVESTOCK AD

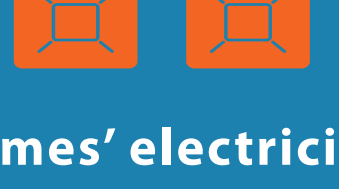
**19 MILLION**

METRIC TONS OF CO<sub>2</sub> EQUIVALENT REDUCTION IN GHG EMISSIONS SINCE 1994

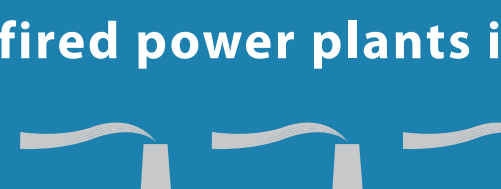
EMISSION REDUCTION EQUIVALENT TO:

#### CO<sub>2</sub> EMISSIONS FROM

2 Billion gallons of gasoline consumed



2.6 Million homes' electricity use for one year



5 Coal-fired power plants in one year



#### CARBON SEQUESTRATION BY

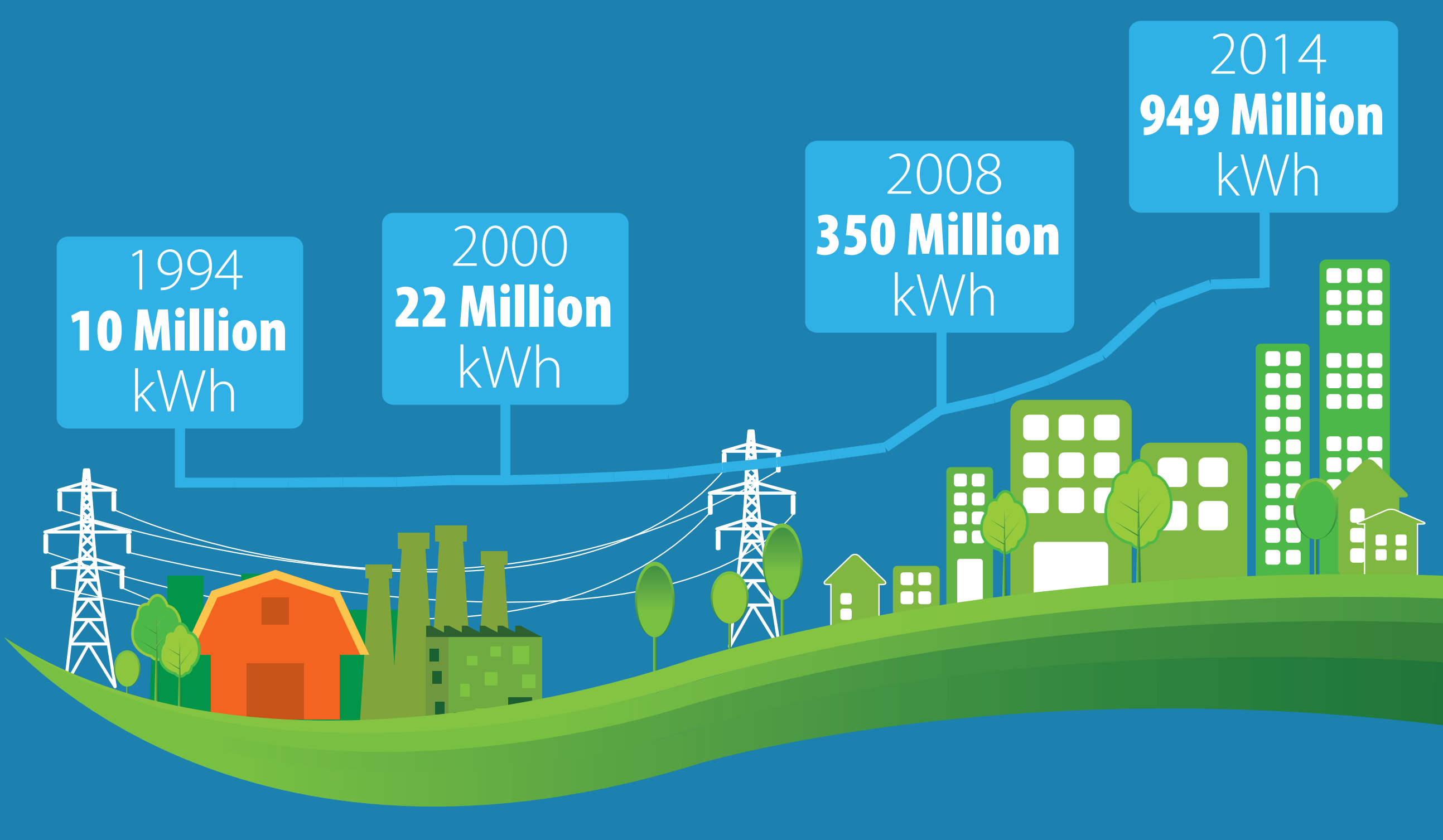
15.5 Million acres of U.S. forest in one year



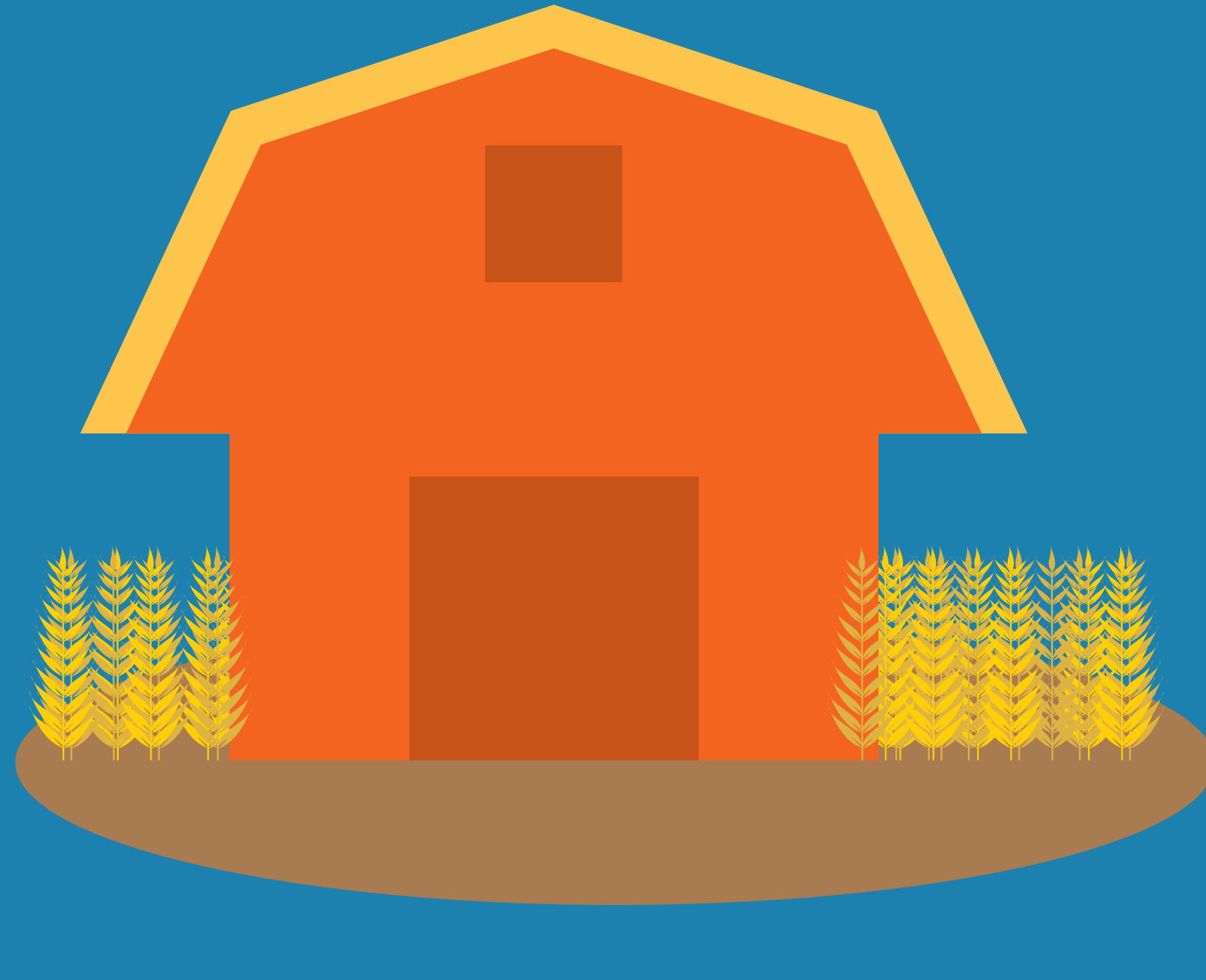
### ENERGY PRODUCTION FROM LIVESTOCK AD

**5.3 BILLION**

KILOWATT HOURS (KWH) EQUIVALENT OF ENERGY SINCE 1994



### CO-BENEFITS OF ANAEROBIC DIGESTION



ODOR REDUCTION

ADDITIONAL FARM REVENUE

MANURE FIBER PRODUCTS (BEDDING, POTTING SOIL, ETC.)

HIGH-QUALITY LIQUID FERTILIZER

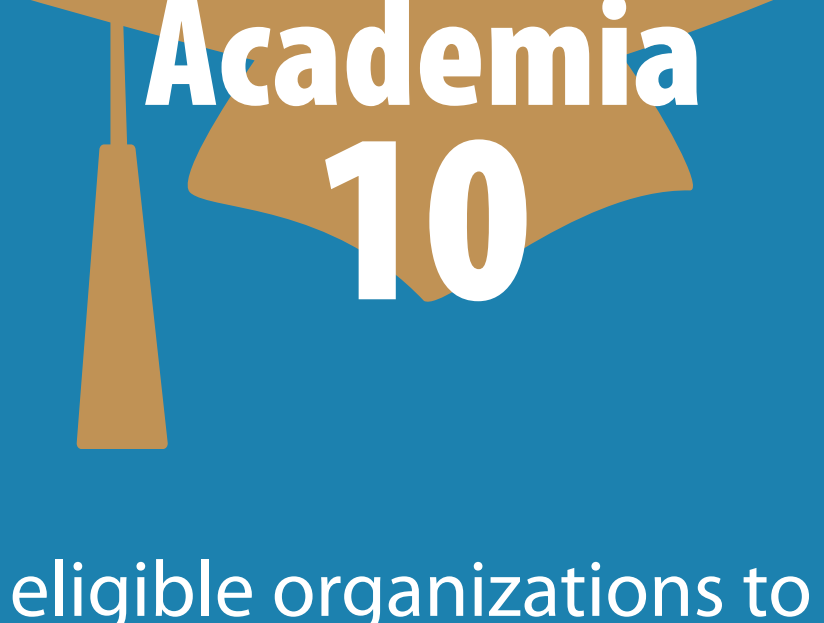
POTENTIAL FOR REDUCED PHOSPHORUS AND NITROGEN RUN-OFF

### PARTNER PROGRAM



Non-Profit

9



Academia

10

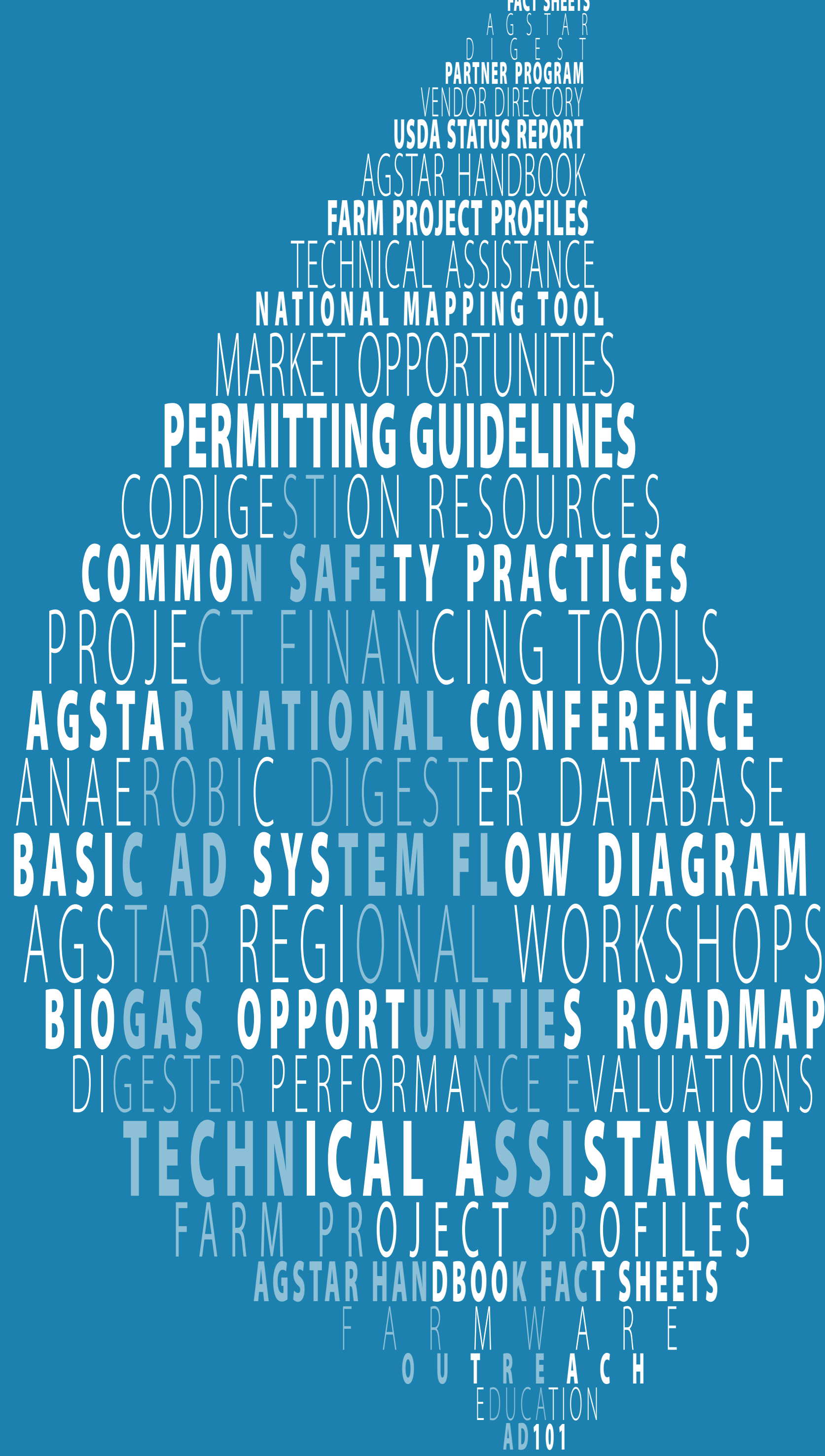


State Government

11

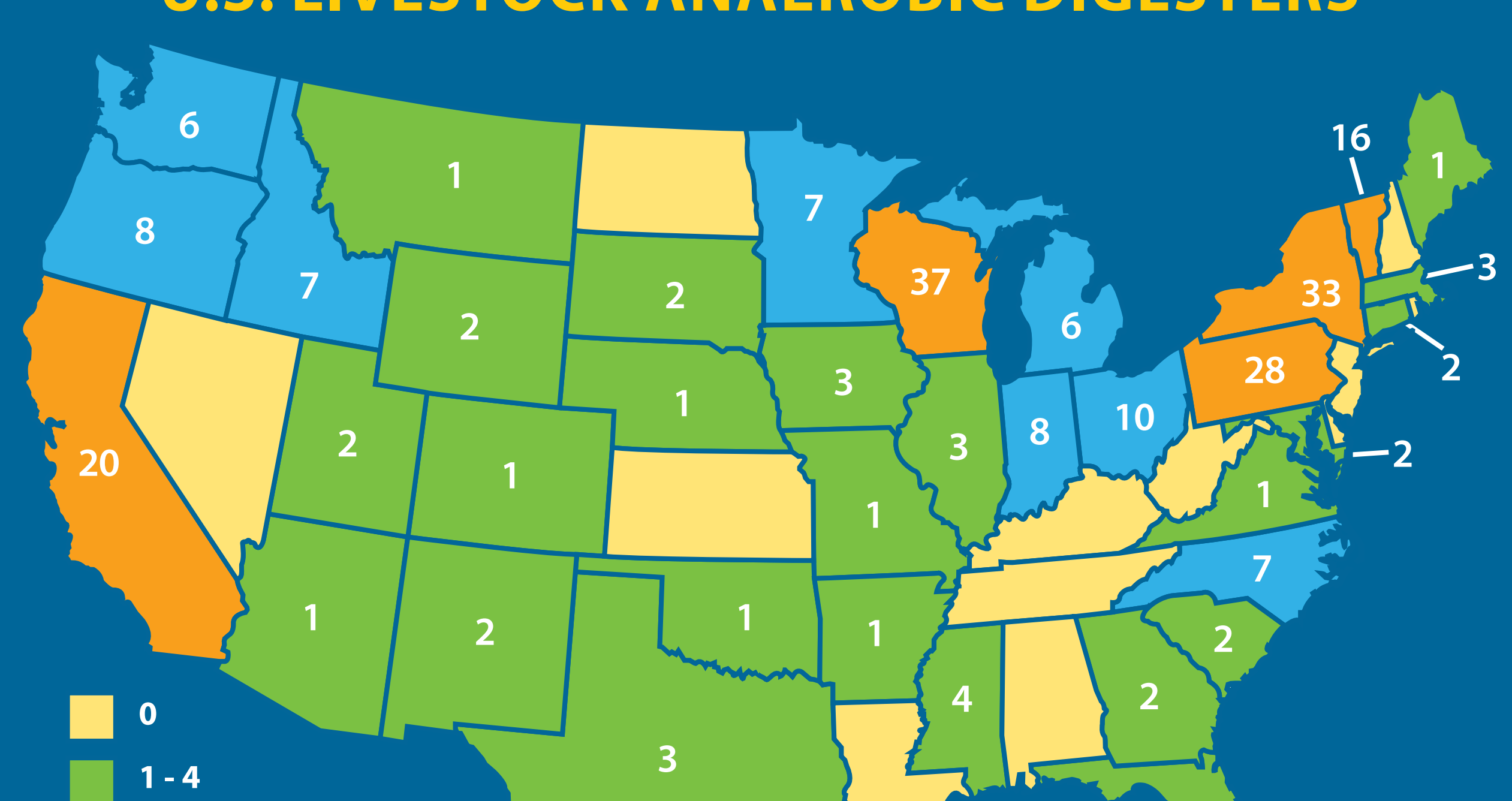
AgSTAR partners with eligible organizations to promote the planning, deployment and long-term success of AD systems. Join us as we continue to grow over the next 20 years!

### RESOURCES



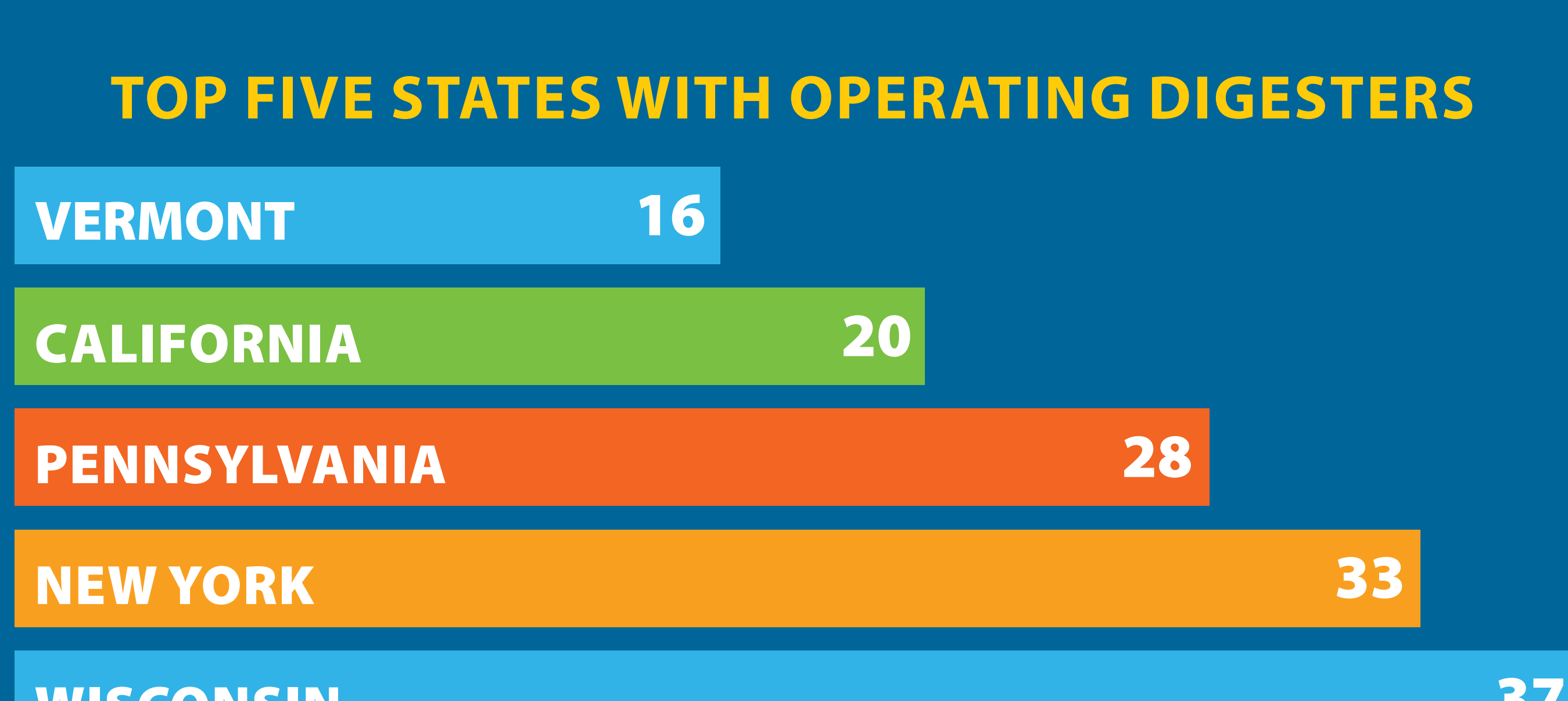
## TODAY'S ANAEROBIC DIGESTER LANDSCAPE

### U.S. LIVESTOCK ANAEROBIC DIGESTERS



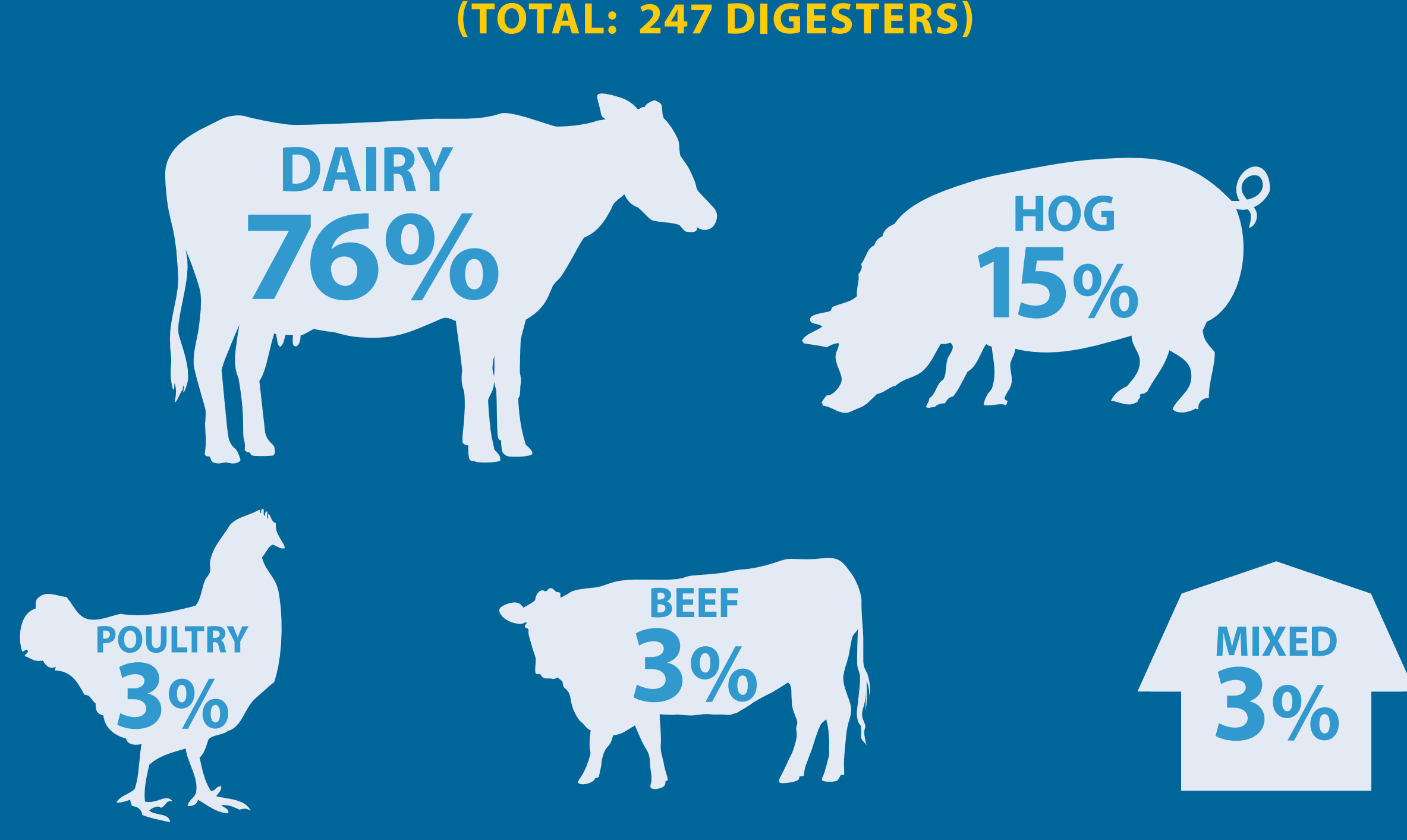
In 1994, there were only a handful of anaerobic digesters operating on livestock farms. Since that time, more than 200 additional systems have been installed, resulting in approximately **247** digesters at the end of 2014.

### TOP FIVE STATES WITH OPERATING DIGESTERS



### DIGESTER PROJECTS BY LIVESTOCK TYPE

(TOTAL: 247 DIGESTERS)



1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014