RNG: Transforming the Future of Sustainable Energy & Agriculture

September 24th, 2019

Dominion Energy®

Dominion Energy Today

Regulated energy infrastructure footprint

$61B market cap

$96B assets

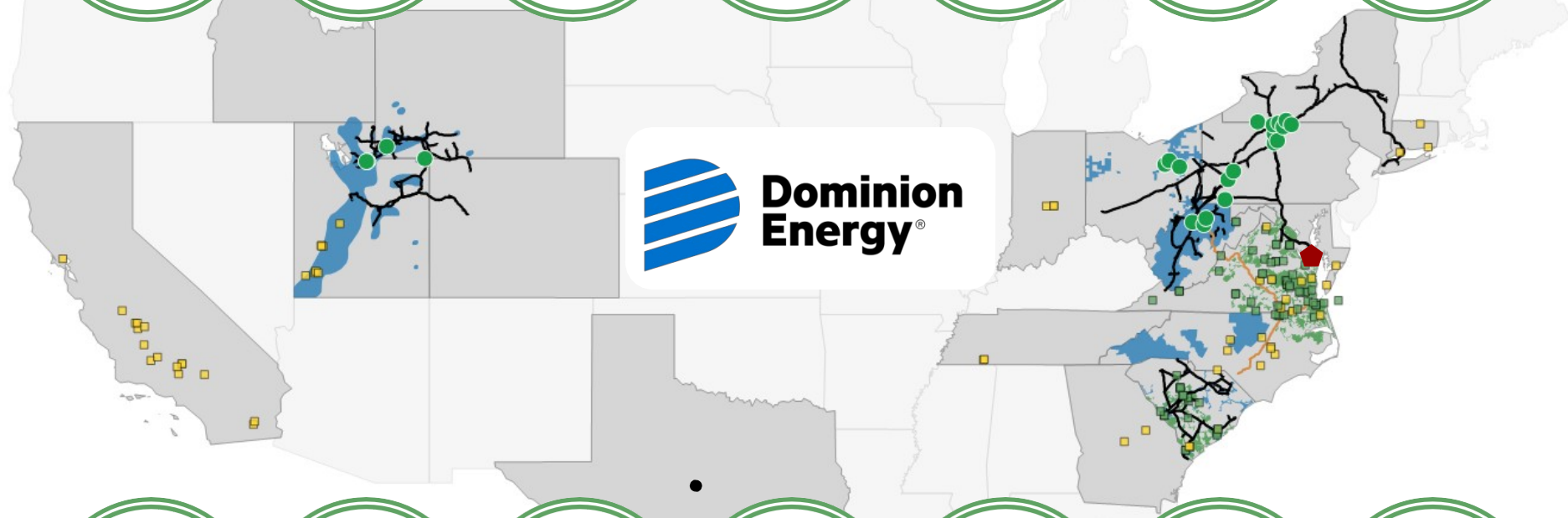
21,300 employees

7.5M customers (total)

3.4M customers (elec. utility)

3.3M customers (gas utility)

18 states of operation



10,200 electric trans. miles

84,800 electric dist. miles

15,900 gas trans. miles

92,900 gas dist. miles

1.1 Tcf gas storage

31GW generation (total capacity)

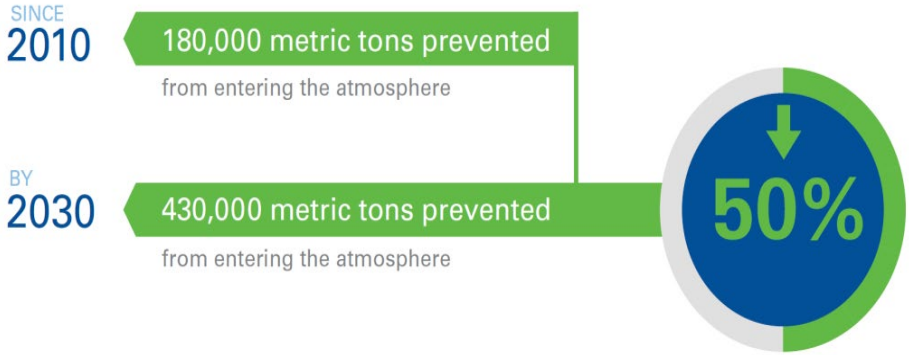
11GW generation (zero-carbon)

Note: Dominion Energy manages Ft. Hood's electric utility system (located in Texas) which is denoted as a black dot on the map

Our Vision

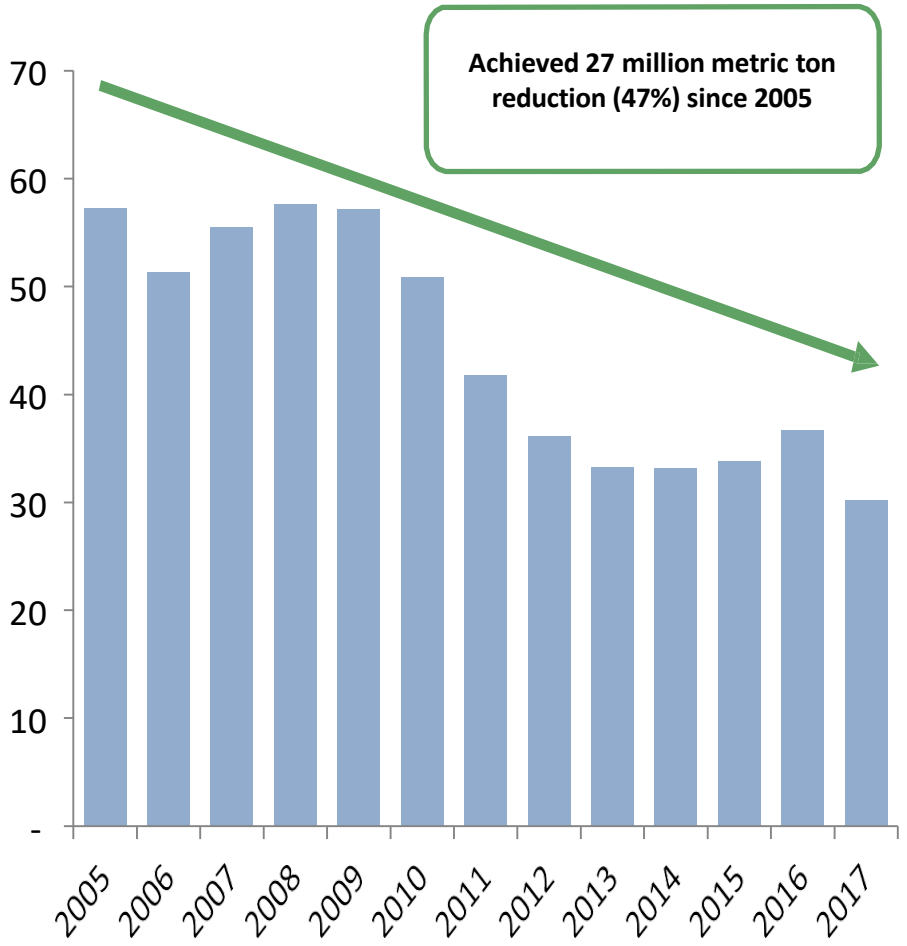
Emissions targets for a clean energy future

In February 2019, Dominion Energy announced an historic, industry-leading initiative to **reduce** methane **emissions by 50 percent** across our natural gas system by 2030.



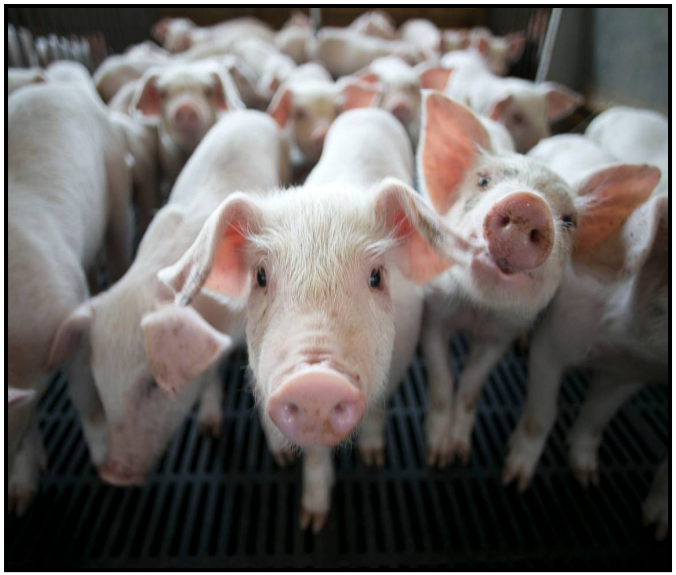
Dominion Energy is one of three companies to pilot the AGA ESG metrics & the **only** natural gas transmission **company to post transmission ESG metrics**

Dominion Energy carbon emissions (million metric tons)



Note: Carbon and methane emissions reductions targets do not include the Southeast Energy Group. The company expects to update its targets to include the Southeast Energy Group later this year

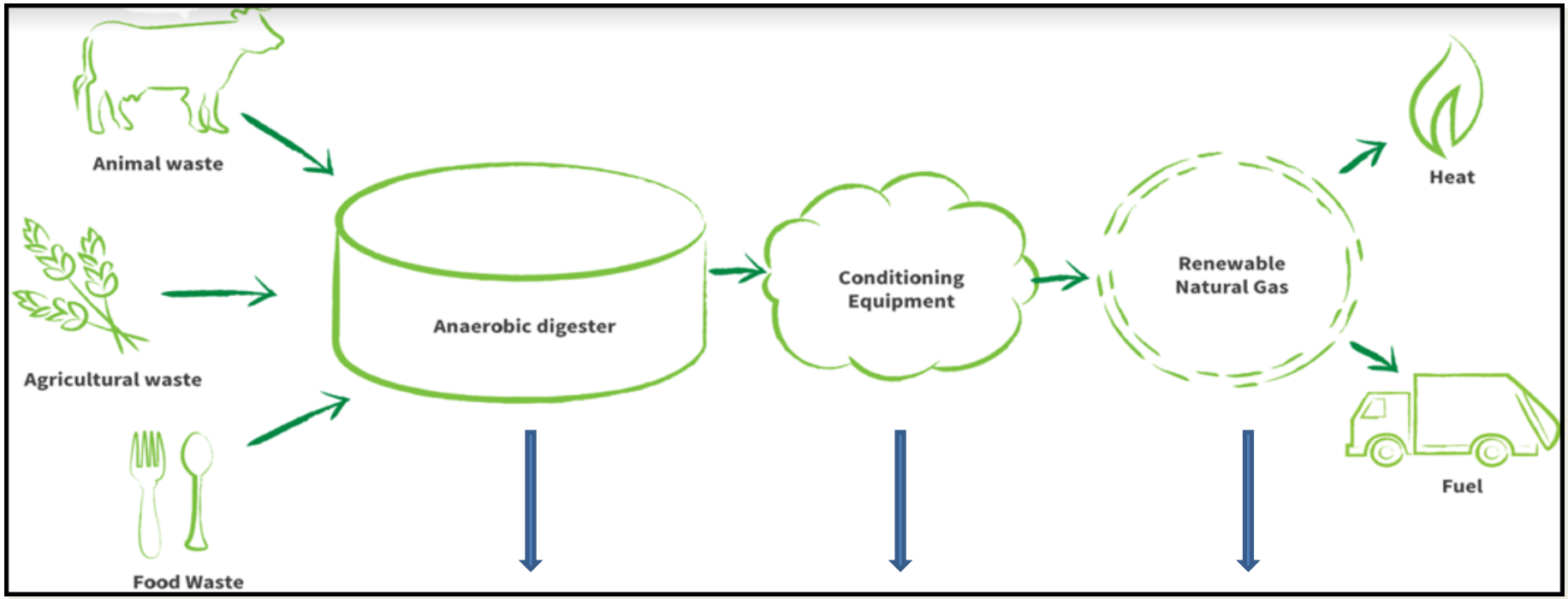
What do the following have in common?

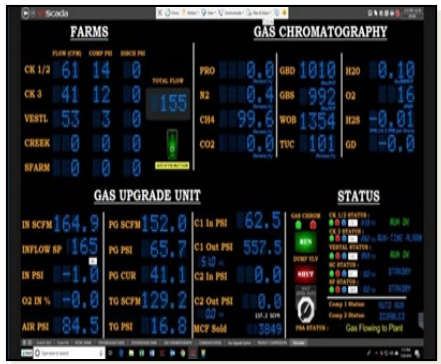


They are all producers of natural gas!

Renewable Natural Gas

How Does It Work?





Align RNG™
Partnership Between Global Industry Leaders

Global Industry Leaders	$250-million joint venture between Dominion Energy & Smithfield Foods
Four Initial Projects Lead to Wider Expansion	4 initial projects in NC, VA and UT with goal of 90% of Smithfield's farms in NC and UT in 10 years
Greenhouse Gas (GHG) Reductions	Initial projects equivalent to ***taking 100,000 cars off the road*** or ***planting 7.8 million new trees***
Carbon-Negative Fuel	More GHG emissions captured from hog farms than released in end-use in homes & businesses
Around-the-clock Renewable Energy	RNG generates power on-demand, 24/7, 365 days a year

align RENEWABLE NATURAL GAS™

Dominion Energy®

Smithfield
Good food. Responsibly.®

Align RNG™ Initial Projects
Virginia, North Carolina & Utah

Milford, UT
Construction began in 2018
Operational by late 2019

Sampson and Duplin Counties, NC
Construction begins in mid-2019
Operational by mid-2020

Waverly, VA

Enough energy to power

14,000

homes and businesses

Emissions reduction equal to planting

7.8 million

new trees

RNG Project Offtake Illustration

Powerful Carbon Reduction- Project Example

Dominion Energy®

CO2e savings from capturing Methane to produce Renewable Natural Gas

RNG Delivered to Customer:
300,000 (MCF/yr)
– OR –
12,000,000 (lbs CH_4/yr)

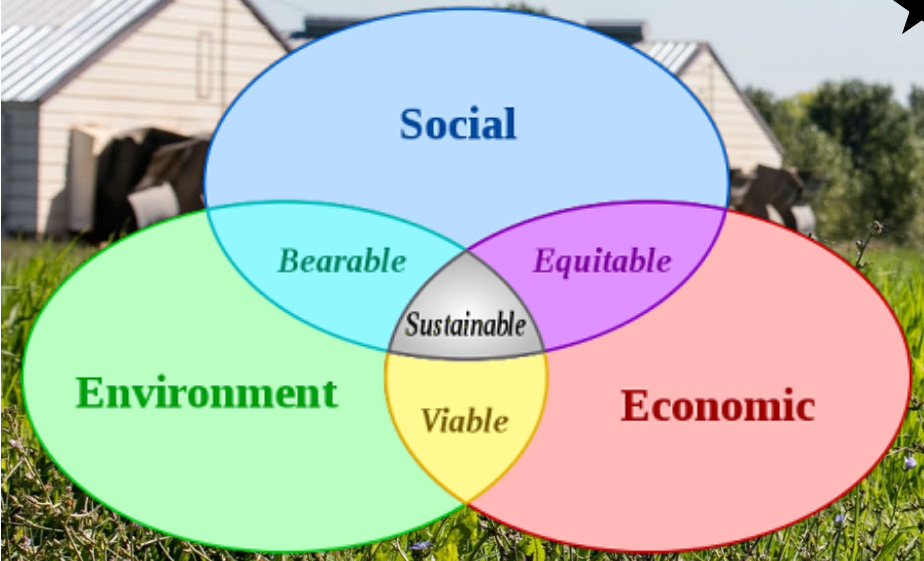
×

GWP Global Warming Potential
25 CH_4 GWP vs CO_2 GWP

=

SUSTAINABILITY Annual CO2e Emissions Reduction
300,000,000 (lbs CO_2e/yr)
– OR –
136,000 (Metric Tons/yr)[1]

★ **Gas supply sufficient to serve >3,500 homes**[2]



★ **Eliminating 136,000 MTs of CO2e/year reduction is the equivalent of:**

- **Removing >29,000 passenger vehicles from the road**
- **~2.25M tree seedlings grown for 10 years**[3]

1. Excludes downstream emissions from combustion of RNG
2. Assumes power generation heat rate of 6,800 BTU/kWh and 12,500 kWh per home per year

Renewable Natural Gas

A 24/7 Renewable…

Renewable natural gas generates energy 24/7, 365 days a year and can be used on demand to meet the real-time needs of homes, businesses and utilities.

RNG generates reliable power

24/7, 365

days a year

Solar generates reliable power

25%

of the time

Wind generates reliable power

35%

of the time

RNG Looking Forward….

Opportunities for farmers and the South

- Waste management is currently a significant cost for family farmers.
- RNG allows farmers to turn a major cost driver into a new revenue stream.
- Farmers can invest in on-farm infrastructure and share long-term revenues.

- Development of biogas resources SSEB member states has the potential to support >$7.1 billion in capital investment and >4,700 long-term jobs
- Potential biogas production from these states could provide enough clean natural gas fuel to power >7.2M vehicles and produce enough electricity to serve the needs of >2.1M homes

*Statistics referenced above according to 2015 study by American Biogas Council