

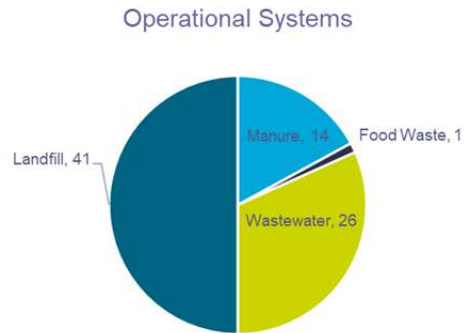
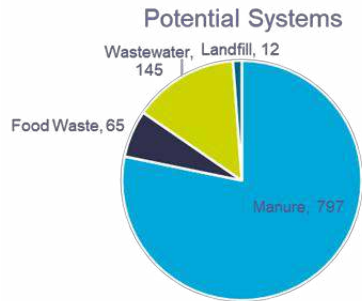
# NORTH CAROLINA



**AMERICAN  
BIOGAS  
COUNCIL**

## BIOGAS STATE PROFILE

North Carolina ranks **3<sup>rd</sup>** out of 50 states for its biogas production potential. We estimate up to 62 billion cubic feet of renewable methane from biogas could be produced each year for energy, fuel, heat, and more!



## THE POWER OF 96.87 BILLION CUFT OF BIOGAS:

### ENERGY POTENTIAL:

- **5191 million kWh** electricity and **2022 million BTU/h** heat (engine); OR
- **8683 million kWh** electricity and **14471 million kWh** heat (fuel cell); OR
- **805.1 million gge** fuel; OR
- **457 million kWh** heat.

### ECONOMIC GROWTH:

Constructing 1019 new systems would generate about...

- **\$3.06 billion** in capital investments,
- **25480** construction jobs, AND
- **1692** permanent jobs.

### REDUCE GREENHOUSE GAS EMISSIONS EQUIVALENT TO:

- Growing **2736 million** coniferous tree seedlings for 10 yrs, OR
- Replacing **378800** acres of forest, OR
- Removing **6.12 million** cars from the road.

### BIOGAS SYSTEMS CAN RECYCLE:

Type	Production	Biogas
<b>Manure (total)</b>	24.3 million tons/yr	76.4 billion cuft/yr
<i>Broiler</i>	6.3 million tons/yr	
<i>Dairy</i>	1.1 million tons/yr	
<i>Swine</i>	15.7 million tons/yr	
<i>Turkey</i>	1203000 tons/yr	
<b>Food Waste</b>	3.25 million tons/yr	17.76 billion cuft/yr
<b>Landfill</b>	-	-
<b>Wastewater Facility*</b>	471 gallons/day	2.73 billion cuft/yr
<b>Total Biogas</b>	-	96.87 billion cuft/yr

\*Wastewater facility greater than 1 MGD