Exhibit to Agenda Item #1

Provide the Board with external and internal presentations followed by a panel discussion on **Green Hydrogen and Biofuels programs.**

Board Strategic Development Committee and Special SMUD Board of Directors Meeting Tuesday, June 7, 2022, scheduled to begin at 5:30 p.m. Virtual Meeting (online)



Powering forward. Together.

About the American Biogas Council

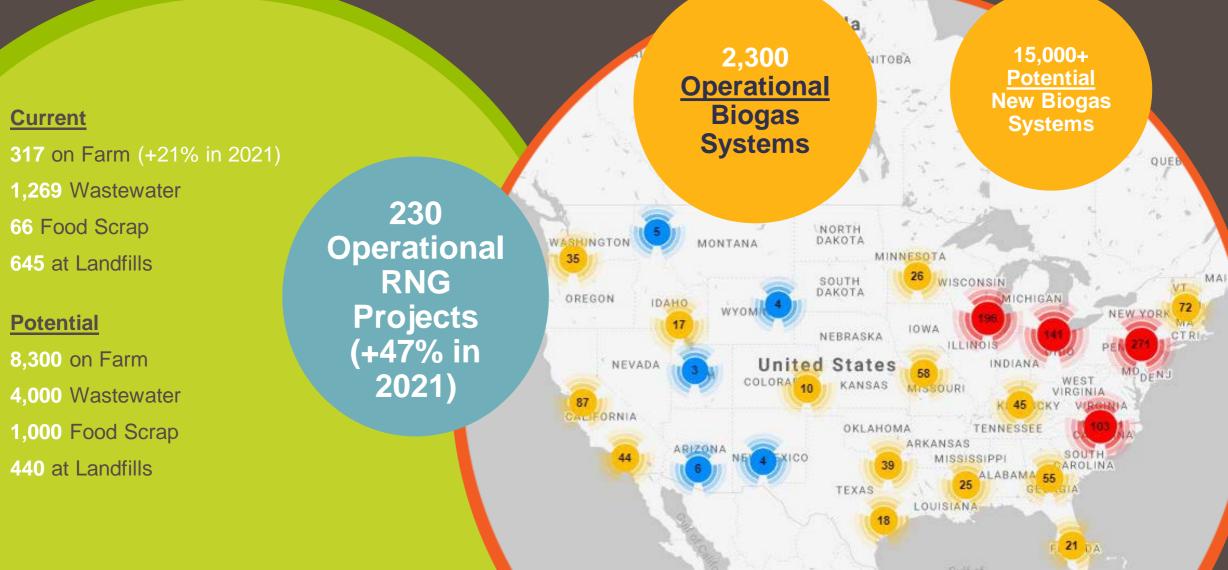
The voice of the biogas industry in the US

All sectors represented

- Producers/users/marketers
- Project developers/owners
- Equipment retailers and dealers
- Waste management companies
- Waste water companies
- Farms
- <u>Utilities</u>
- Municipalities
- Consultants and EPCs
- Financiers, accountants, lawyers and engineers
- Non-profits, universities and government agencies



The US Biogas Market



RNG Drivers: **1. The Federal Renewable Fuel Standard (RFS)** And 2. The California Low Carbon **Fuel Standard (LCFS) Natural Gas:** \$3/MMBTU Biogas→RNG: \$9-90+/MMBTU

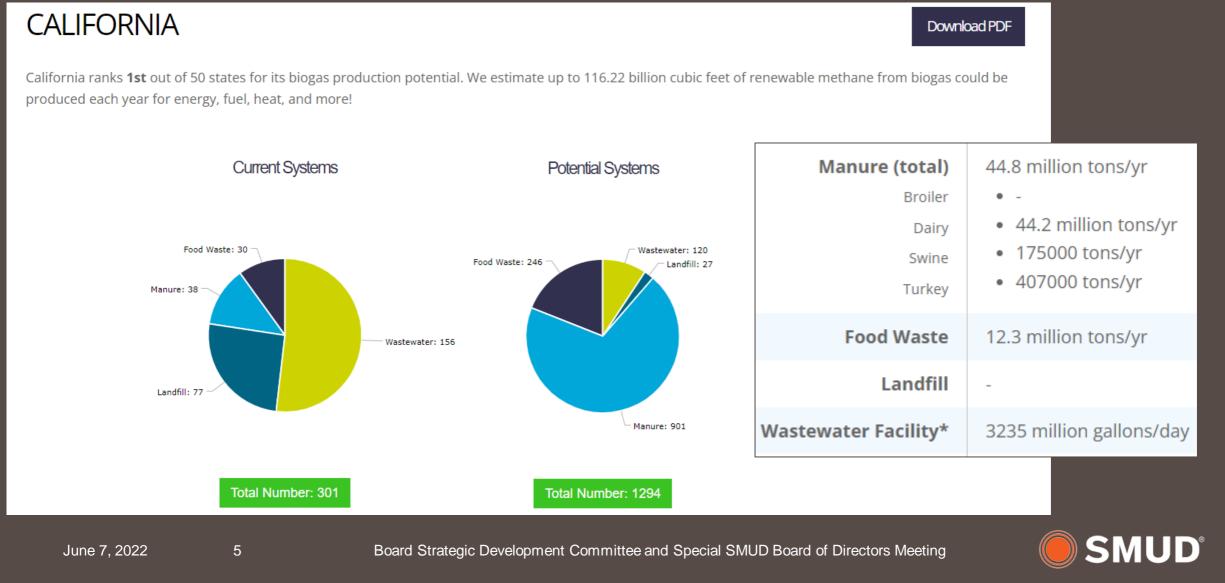
Food waste recycling policies

Other State Clean Fuel Programs (OR, WA + NY? NM? MN? NE?)

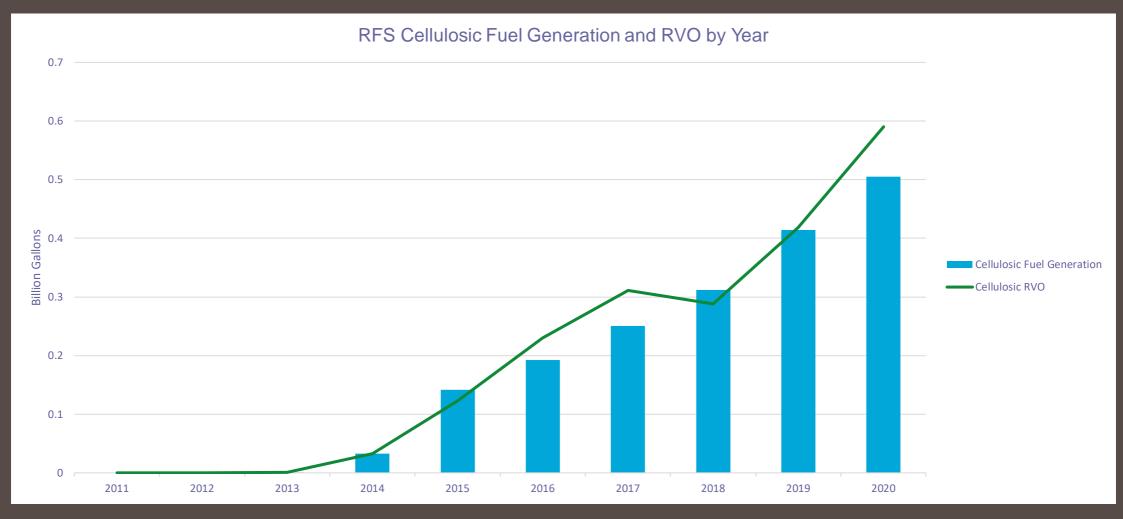
Voluntary RNG purchases for corporate sustainability (ESG)

Biogas Potential in CA

<u>Source:</u> <u>https://americanbiogascouncil.org</u> <u>/resources/state-profiles/</u>

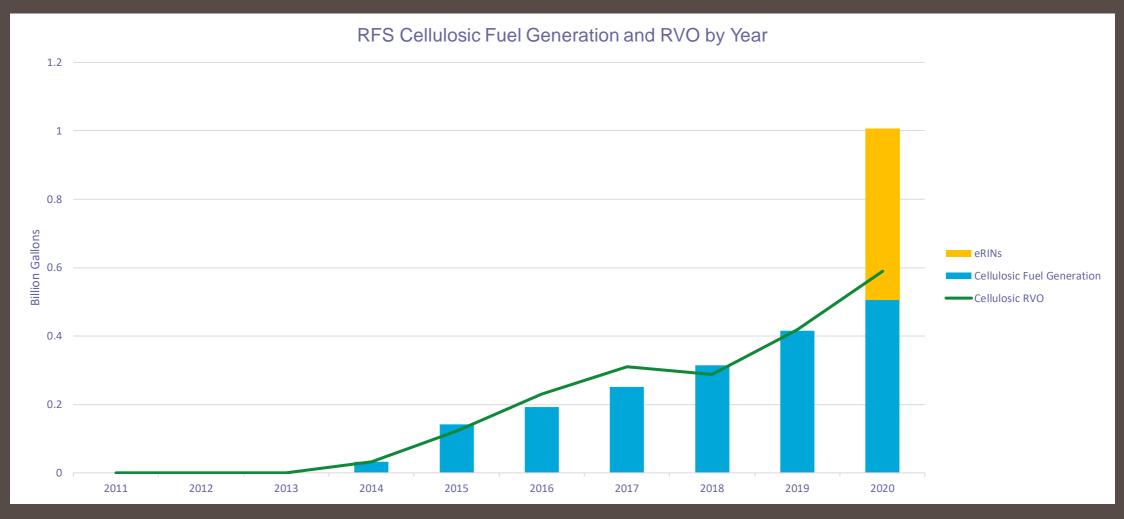


Growth of the RNG market





Growth of the US RNG market WITH eRINs





How much could eRINs be worth?

501 million eRINs

D3 RIN: \$3.50

D5 RIN: \$1.75 22.6 kWh = 1 eRIN

> The International Council on Clean Transportation notified EPA in 2015 that 22.6 kWh of electricity would drive the typical new EV about 70 miles, displacing 4.3 gallons of gasoline

D3 eRINs:

\$1.75 Billion

D5 eRINs:

\$877 Million

D3 eRINs: 5 cents/mile

D5 eRINs: 2.5 cents/mile (Revenue)



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