

Scaling Up logen Background

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A Long Time Player in Cellulosic Biofuels





- Cellulosic ethanol developer since the late 1970s
- In addition to cellulosic ethanol
 - Enzymes for cellulose conversion
 - Renewable natural gas
 - Renewable hydrogen
- Now a large registered producer of cellulosic biofuels in the U.S.
 - 5% of all U.S. cellulosic biofuels
 - Focus is renewable natural gas
- Partnered with major energy companies to bring our cellulosic biofuels to market



A Leading Developer of Cellulosic Ethanol











Active since the 1970s

- First piloting Jayhawk 1979
- Ottawa pilot 1983
- Demo plant 1999+
- First commercial 2014+

Partnered with a number of major corporations











Manufactured cellulase enzymes





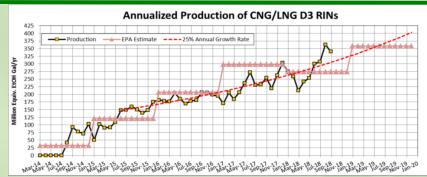


Lessons learned: this is a complex, difficult business





Developing opportunities in renewable natural gas













- One of top registered cellulosic biofuel producers in the U.S.
 - 5% of all U.S. cellulosic biofuel
 - Renewable natural gas
- \$750 million per year market growing at 25%
 - RNG from landfill and digester biogas
 - One billion gal/yr potential
- Developing new opportunities

• e.g. Renewable hydrogen in diesel





Thank You

