

BIOGASDONERIGHT™ FIRST REPORT AND RESULTS OF THE INTERNATIONAL STUDY:

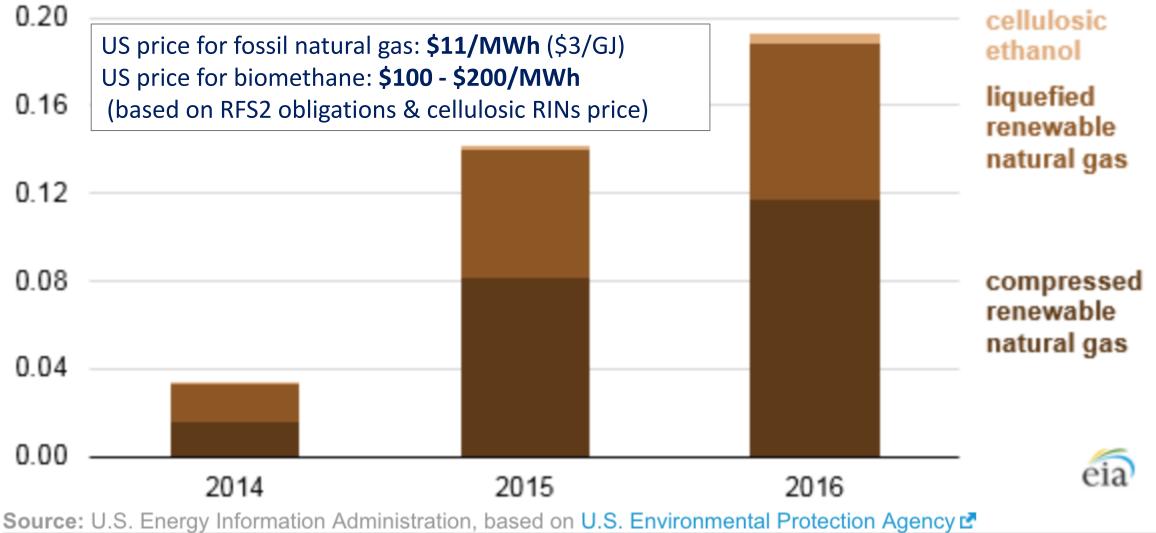
THE U.S. EXPERIENCE & POTENTIAL

PRESENTED BY: PROFESSOR TOM RICHARD PENN STATE UNIVERSITY, USA

> FEBRUARY 14, 2018 ROME, ITALY

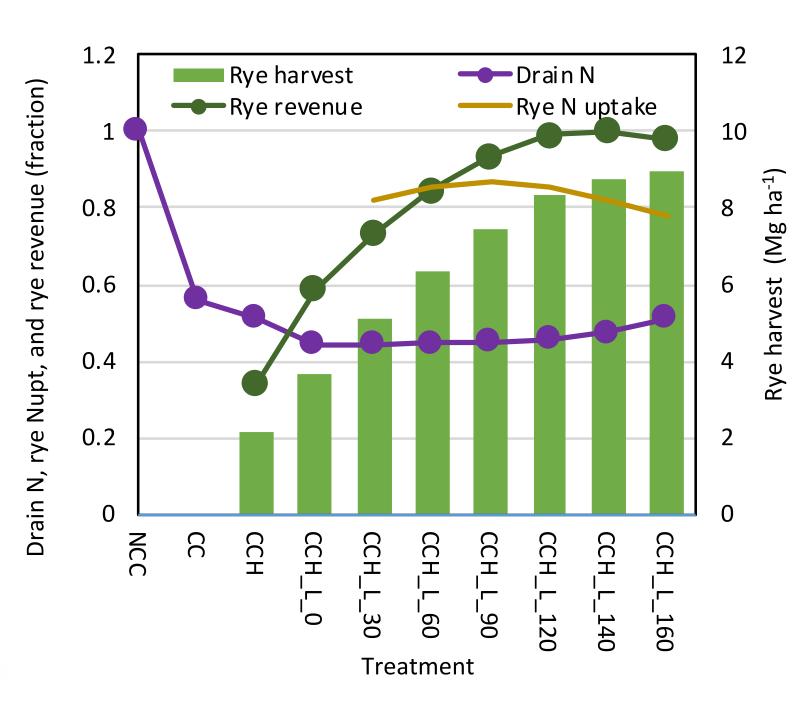
Cellulosic biofuel production (2014-2016)

billion gallons, ethanol equivalent

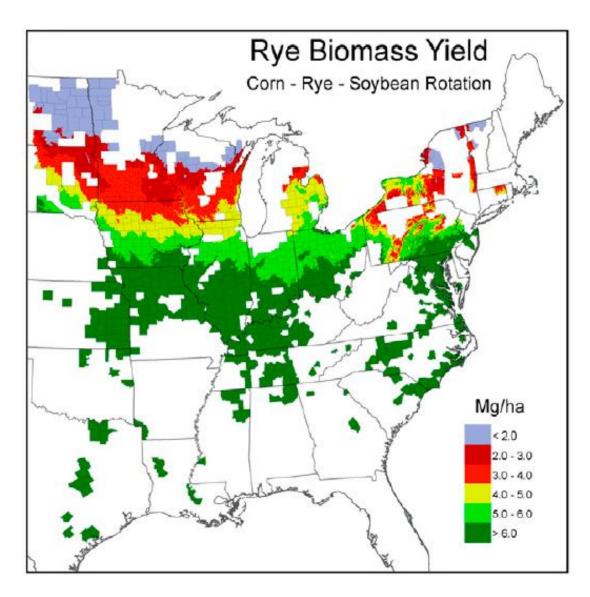








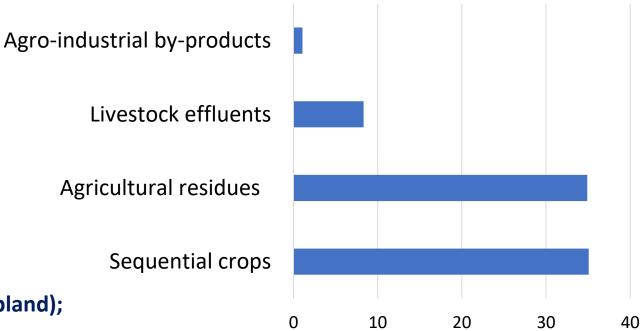
Malone et al. 2018



BiogasDoneRight™: Potential for the United States

Current Fossil CH4 (Natural Gas): **756** billion m³/year Bio-CH4 (Natural Natural Gas): **164** billion m³/year Fraction of current Natural Gas: **21.7**%

US – Bio-CH₄ from agriculture (billion m^3)





Sequential Crops: 35 million ha (~1/3 of cropland); >120 million Mg dry matter/year

THE INTERNATIONAL POTENTIAL OF BIOGASDONERIGHT™: IS IT EXPORTABLE? BIOGASDONERIGHT™ IS POSSIBLE IN THE USA!

- United States Dr. Tom Richard, Pennsylvania State University, USA
 - Renewable Fuel Incentives are driving rapid growth.
 - Sequential Cropping can provide water quality benefits, beyond those of cover crops alone.
 - Biogas Potential in the US exceeds 20% of fossil natural gas.