



WORLD DAIRY EXPO

Sept. 28 - Oct. 2, 2021

ATTENDEE
INFORMATION

EDUCATION

CONTESTS

NEWS & PHOTOS

COMMERCIAL
EXHIBITORS

DAIRY CATTLE
EXHIBITORS

ABOUT EXPO

Instrumental to the Industry



WORLD DAIRY EXPO 2021

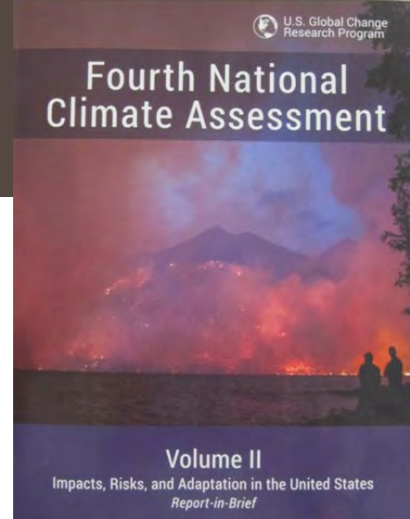
SEPT 28 - OCT 2 | MADISON, WI, USA

WORLDDAIRYEXPO.COM

Location: Alliant Energy Center, 1919 Alliant Energy Center Way, Madison, WI 53713

Agriculture and Climate Change

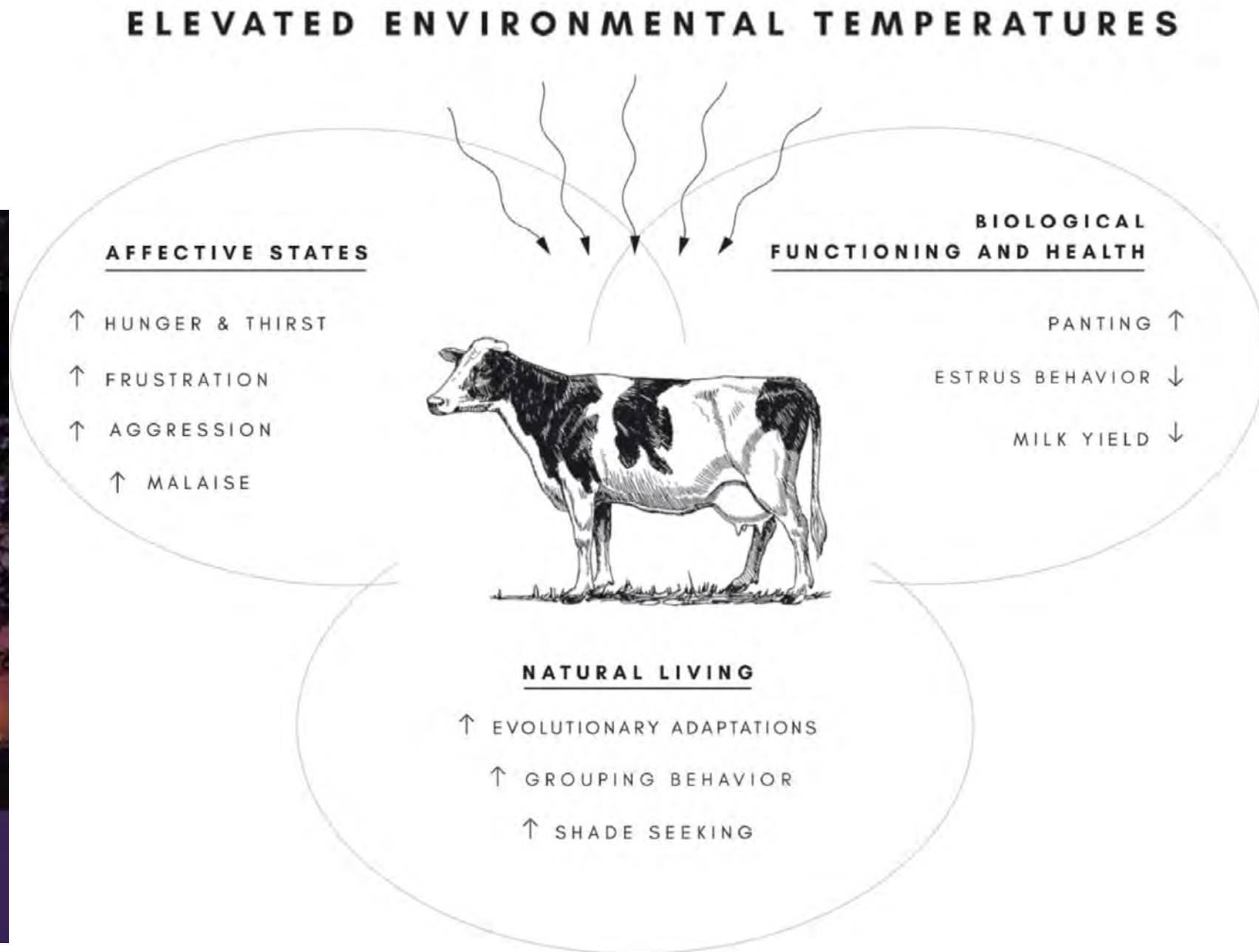
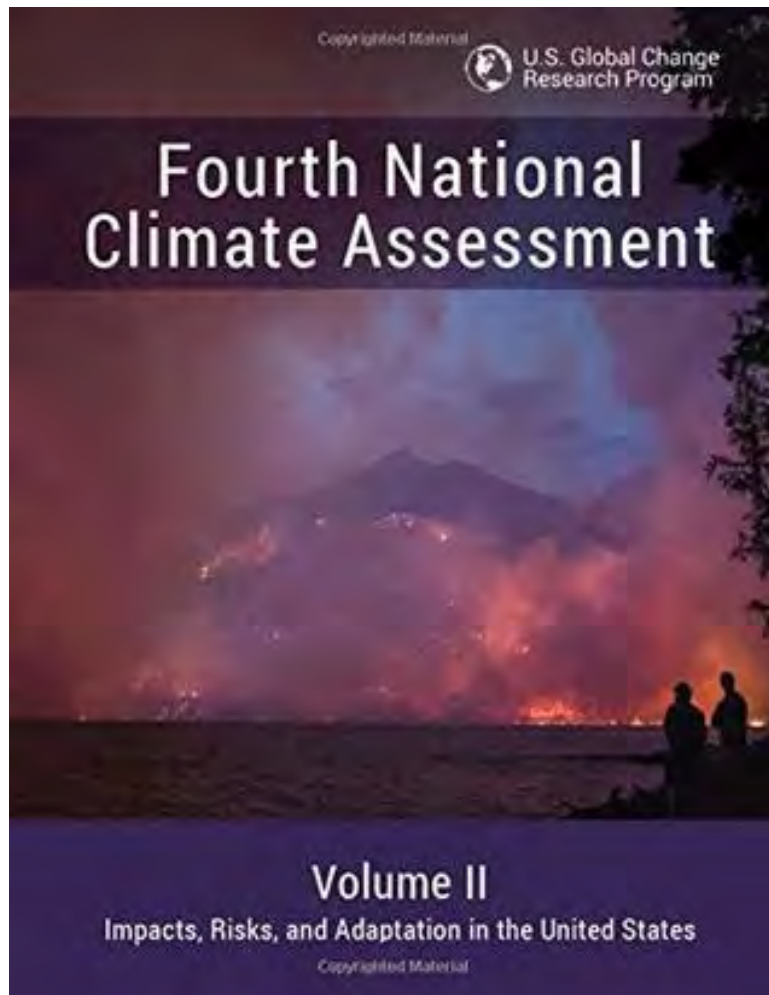
4th National Assessment on Climate Change - 2018



- **High temperatures** lead to health challenges to farm workers and livestock
- **Drought** leads to reduced agricultural productivity
- **Extreme precipitation** events lead to degradation of soil and water resources



“Dairy cows are particularly sensitive to heat stress...”



Climate Legislation Pending in U.S. Congress

Energy Innovation & Carbon Dividend Act (H.R. 2307) will help reduce America's carbon pollution to net zero by 2050. It puts a fee on carbon pollution, creating a level playing field for clean energy. The money collected goes to Americans in a monthly carbon **Rebate on fuel** *“used on a farm for a farming purpose.”* and *“The carbon fee shall not be levied upon non-fossil fuel greenhouse gas emissions which occur on a farm.”*

Growing Climate Solutions Act passed in Senate 92-8. Authorizes the Dept. of Agriculture (USDA) to establish a Technical Assistance and Verification Certification Program to help reduce entry barriers into voluntary environmental credit markets for farmers, ranchers, and private forest landowners. **Farmers get paid by credit purchasers for using animal and land management techniques proven to meet certain ecosystem benefit criteria.** The most common target for these practices is carbon sequestration.

Growing Climate Solutions Act: Examples of Activities expected to be carbon credit-earning



Keep soil covered



**Minimize soil disturbance
(low/no-till)**



Plant diversity



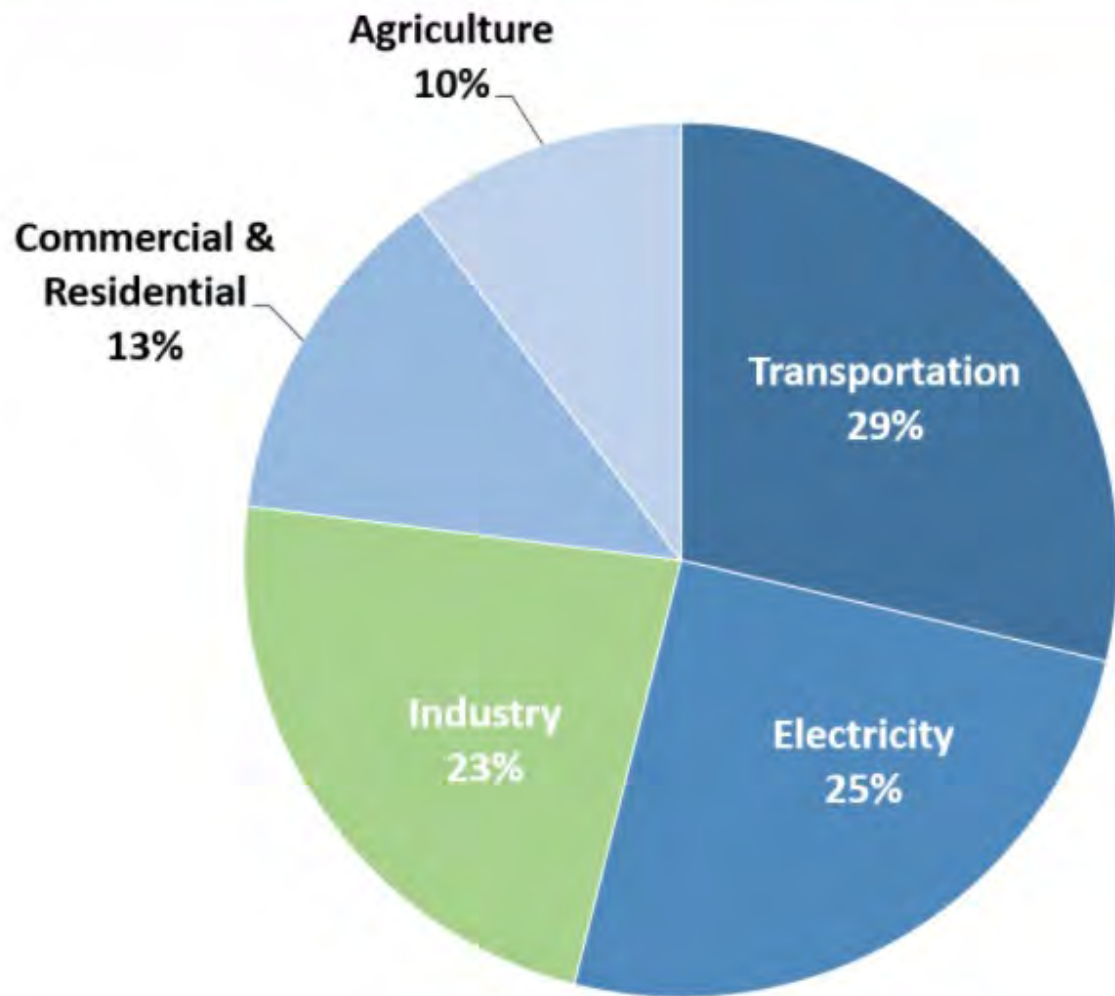
Continual live plants and roots



Livestock integration



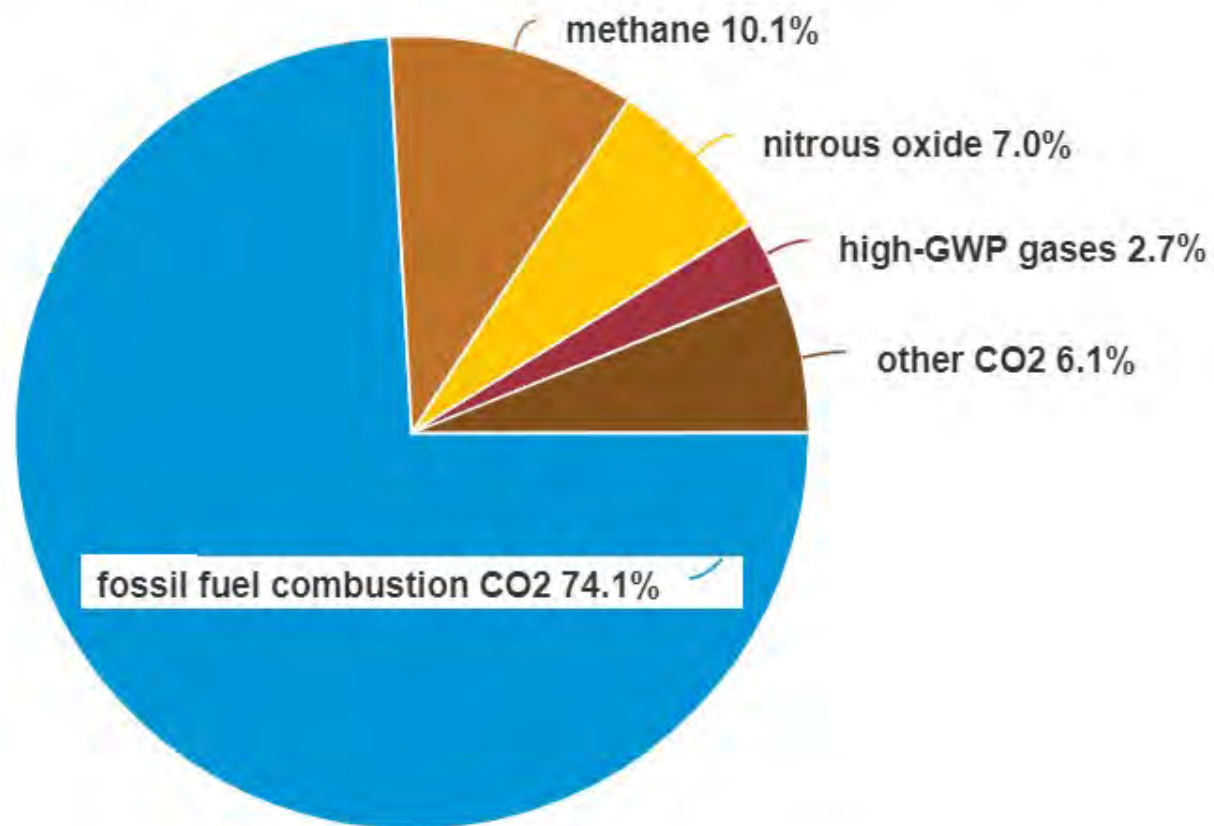
Total U.S. Greenhouse Gas Emissions by Economic Sector in 2019



Total Emissions in 2019 = 6,558 [Million Metric Tons of CO2](#)

U.S. greenhouse gas emissions by gas, 2019

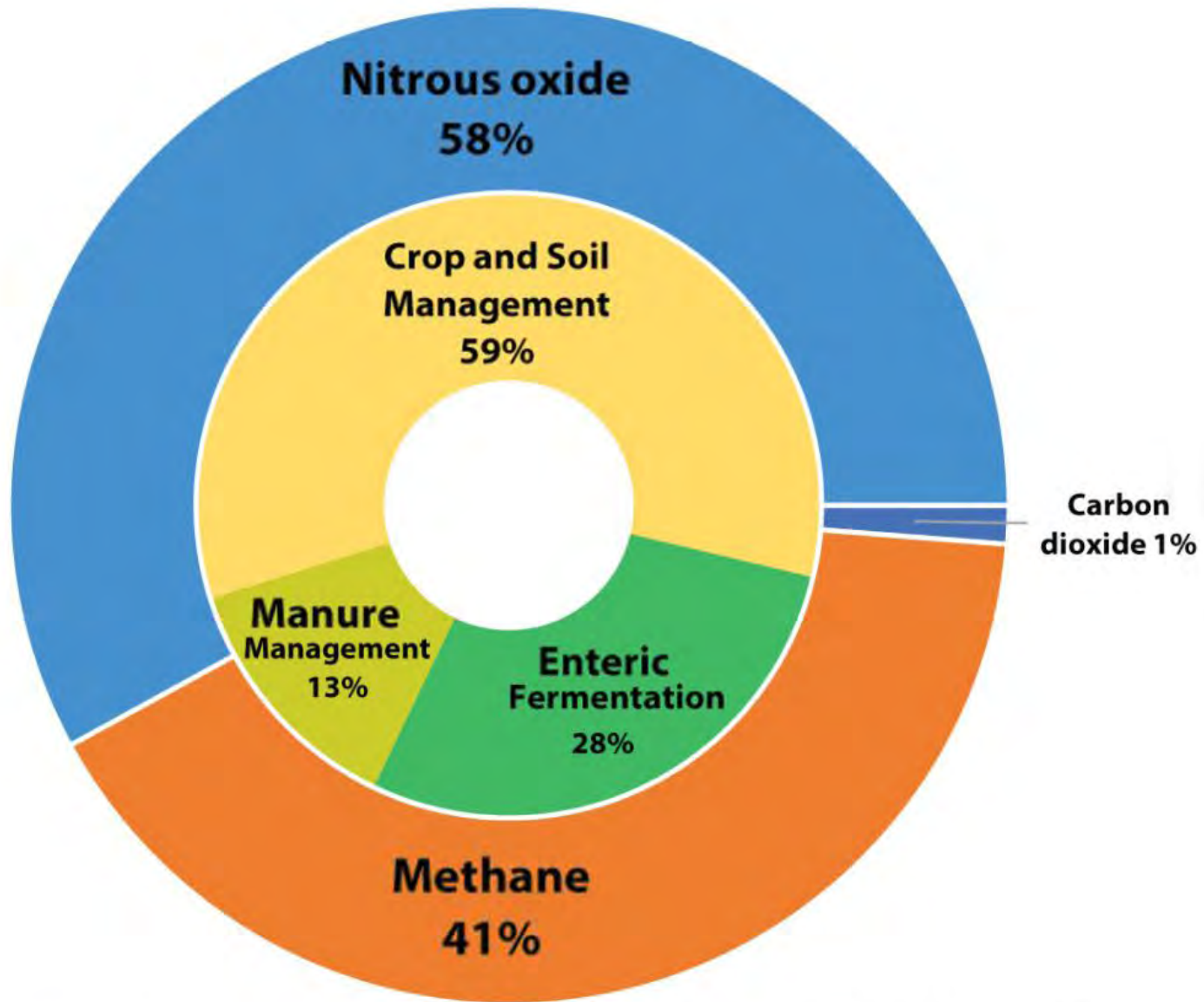
total = 6,558 million metric tons of carbon dioxide equivalent (CO₂e)



Source: U.S. Environmental Protection Agency (EPA)

Agricultural Greenhouse Gases in 2019

Agriculture Carbon Footprint in other Sectors



Energy-related emissions for transportation, electricity, synthetic fertilizers, lime, pesticides, irrigation, seed production, farm machinery....

Figure 3. Types and sources of agricultural GHG, 2019. <https://extension.missouri.edu/publications/g310>

Energy Innovation & Carbon Dividend Act

How will the bill impact farmers?

- In year 1, a decrease in net returns by 1.0% (corn), 1.6% (soybeans)
- In year 10, a decrease in net returns by 6.3% (soybeans), 8.2% (corn)
- Primarily due to increased price of fertilizer
 - Natural gas is used to make it
 - Takes a lot of energy - high heat and pressure
 - Methane used to provide hydrogen: N gas + hydrogen → ammonia)
 - Organic farmers wouldn't be impacted by this



Energy Innovation & Carbon Dividend Act

But two types of changes could occur over time to reduce the impact

- Farmers can change their practices to decrease fertilizer use
 - move to precision nitrogen management
 - practices that increase soil health
 - these will generally decrease the amount of fertilizer used / yield
- Fertilizer manufacturing
 - Captures and uses or stores carbon dioxide (CCUS)
 - already used by some
 - EICDA has rebate



World Dairy Expo Exhibit Volunteers as of 14Aug21

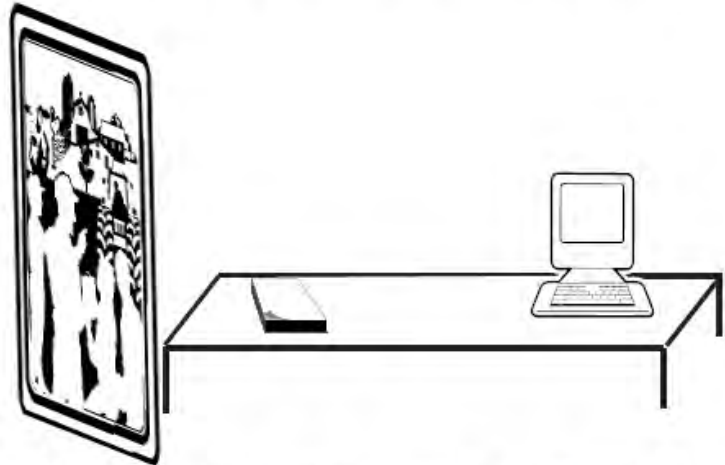
	Full Name	Chapter
1	Brian Coker	WI Madison
2	Bruce Beck	WI Madison
3	Doug Edwards	WI Madison
4	Bruce Jamison	WI Madison
5	Loren Johnson	WI Elkhorn
6	Steve Lewis	WI Madison
7	Sara Roberts	WI Madison
8	John Skoug	WI Eau Claire
9	Philip Smith	WI Waukesha
10	Max Tsaparis	WI Madison
11	Christopher Zanowski	WI City of Milwaukee



Citizens' Climate Lobby

If you would like to help staff the CCL exhibit table at the World Dairy Expo, please email Bruce Beck at bbeck@charter.net

1. Table Top Display and Pop-Up Display



A small display on the supplied 6' table with a small banner stand angled in the remaining two feet. All items must fit within the 3' x 8' area.

Limited exhibit space allows no more than 2 volunteers at the exhibit at the same time. It will be helpful if 20+ volunteers would each agree to take a 2-hour shift.

As a volunteer, you will be invited to an introductory training session. Volunteers also get a free show pass.

More Info: www.livableworldoutreach.org