



DELAWARE'S ***Climate Action Plan***

Public Workshop

OVERVIEW

Over the course of 2020, Delawareans will help shape a Climate Action Plan to minimize the greenhouse gas emissions that cause climate change and maximize our resilience to the impacts we're already experiencing.

As climate change threatens our daily lives and economy in Delaware's coastal towns, urban areas, and vibrant farms, it's time for us to act together.

GOALS FOR THIS SESSION

Gain a greater understanding of climate change and how it impacts Delaware

Learn about the State's Climate Action Plan process and actions to date

Share climate change concerns

Suggest solutions for consideration

AGENDA

4:30 - 5:30 pm

Open House and Networking

5:30 - 5:45 pm

Welcome & Introduction

5:45 - 5:50 pm

Opening Polling

5:50 - 6:00 pm

Overview Presentation

6:00 - 7:10 pm

Small Breakout Groups

7:10 - 7:15 pm

Closing Polling

7:15 - 7:30 pm

Wrap-Up

Welcome and Introduction

- Purpose of this public workshop
- What you can expect from tonight
- How your input will be used in the climate planning process
- How to continue providing your input throughout the year



Blackbird Creek Reserve, Smyrna, DE

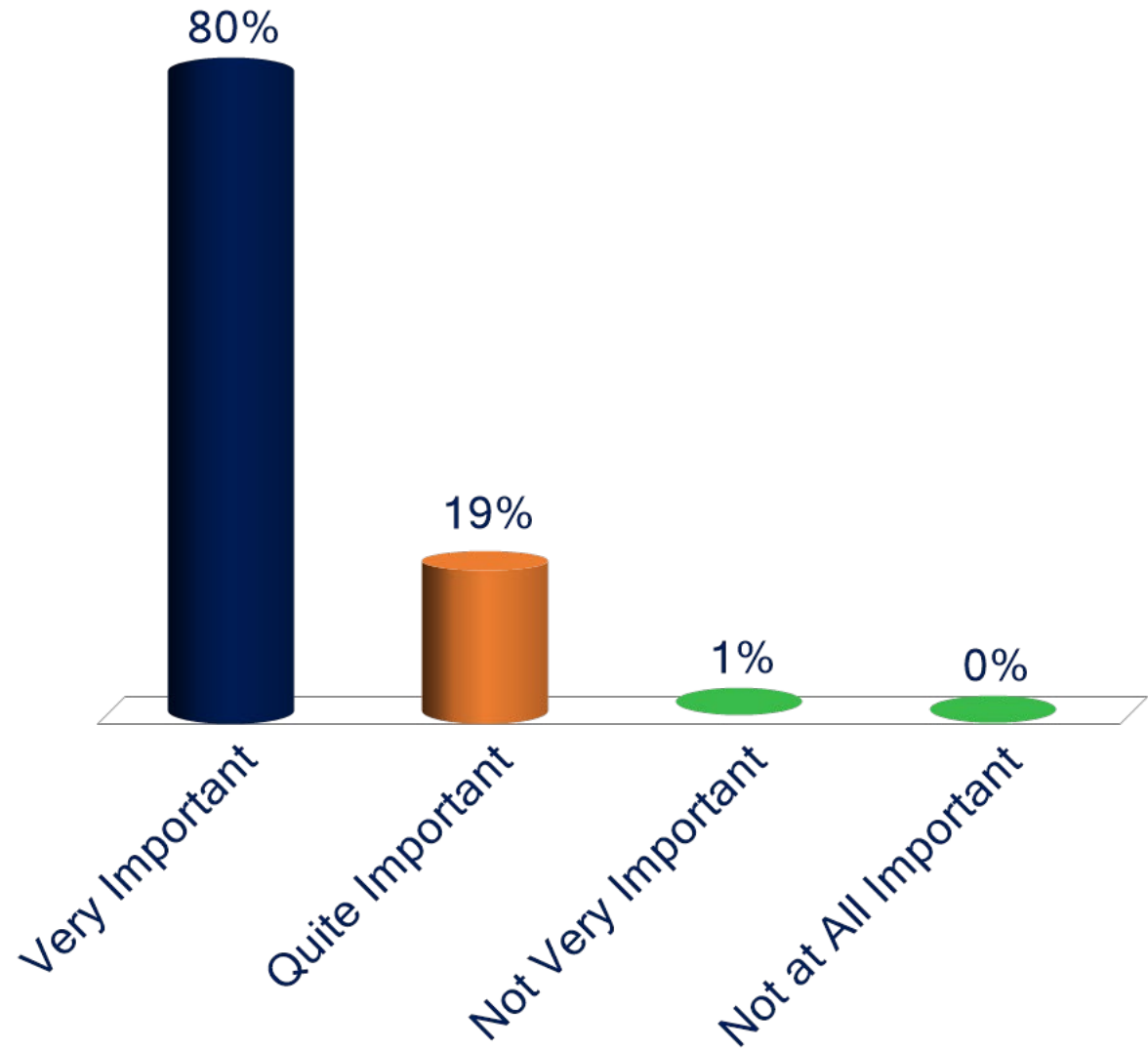
Source: DNREC

Keypad Polling



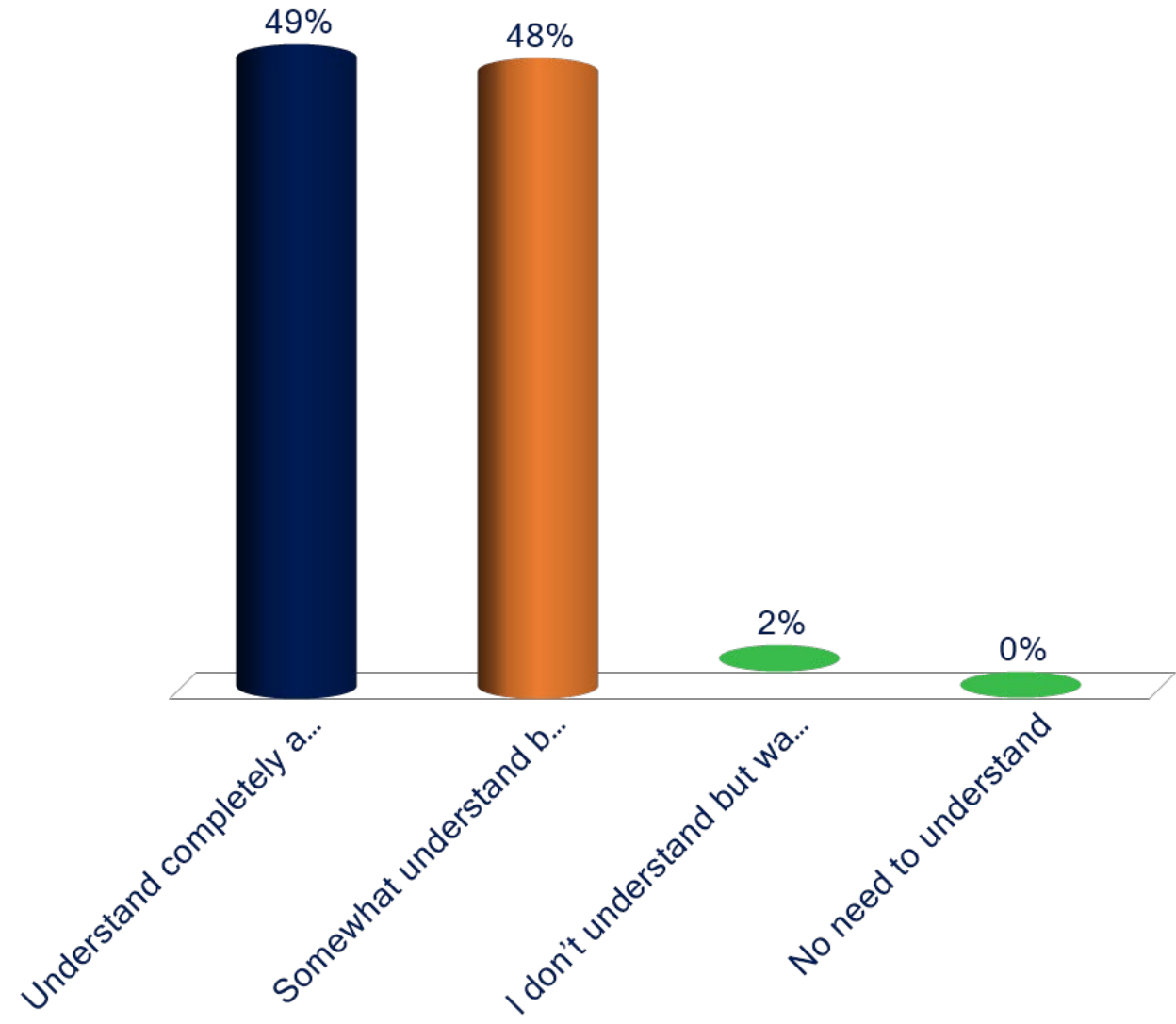
How important is the issue of climate change to you personally? *Choose 1.*

- A. Very Important
- B. Quite Important
- C. Not Very Important
- D. Not at All Important



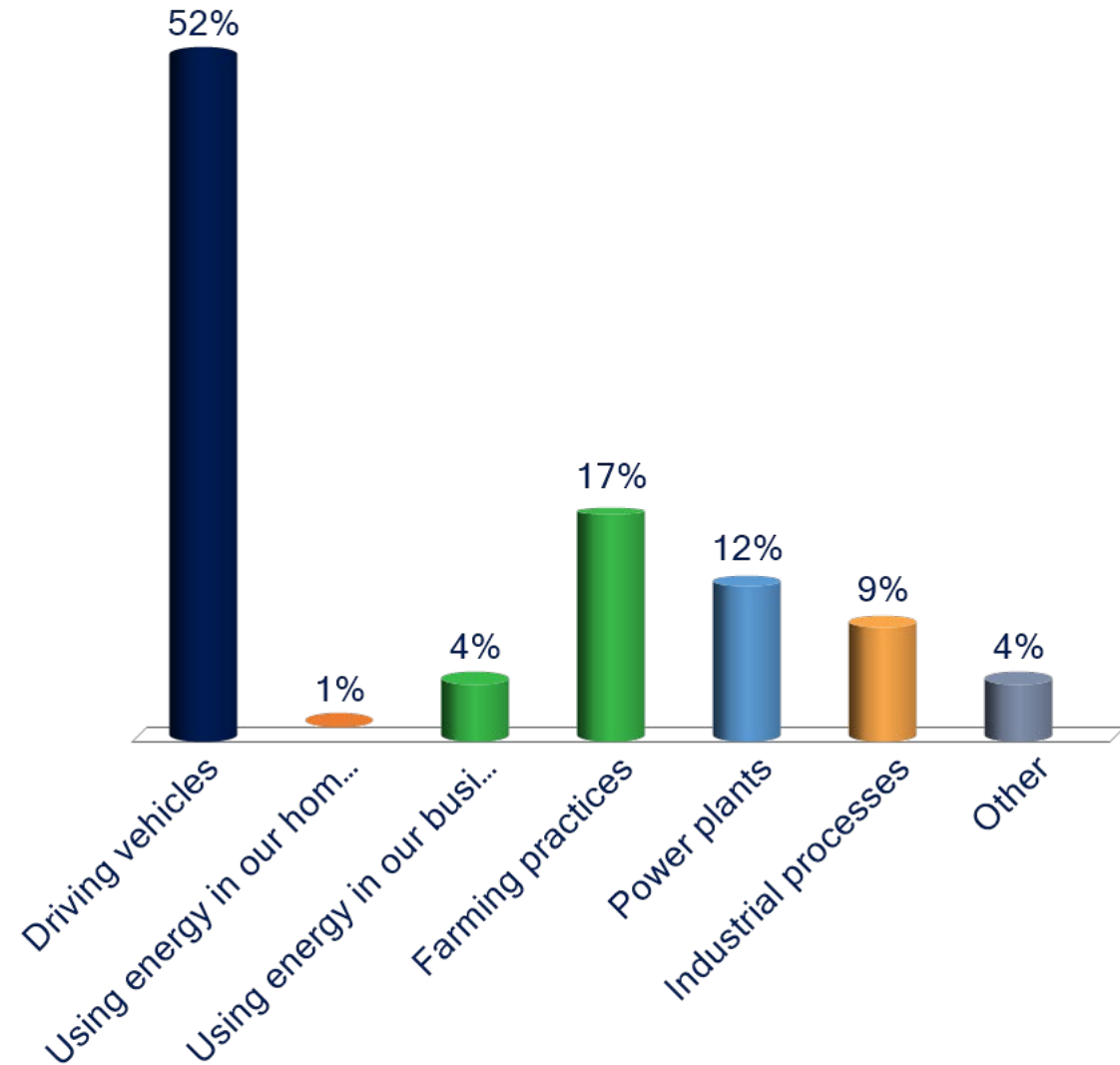
How well do you think you understand the causes of climate change? *Choose 1.*

- A. Understand completely and minimizing my impact
- B. Somewhat understand but not sure what we can do about it
- C. I don't understand but want to learn more
- D. No need to understand



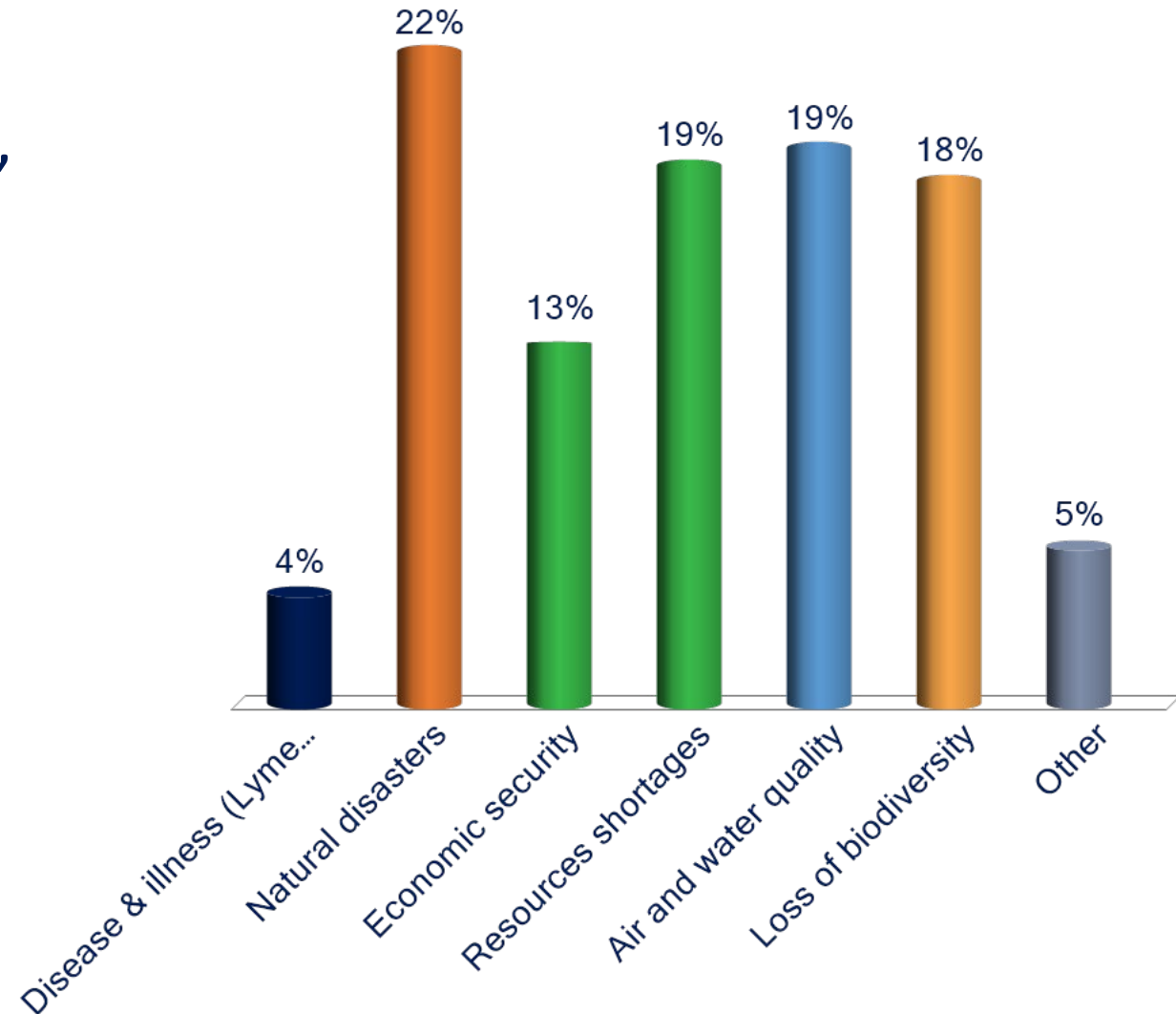
Which of the following do you think contributes most to GHG emissions and climate change?

- A. Driving vehicles
- B. Using energy in our homes
- C. Using energy in our businesses
- D. Farming practices
- E. Power plants
- F. Industrial processes
- G. Other



What issues are of most concern to you related to impacts of climate change? *Choose 2.*

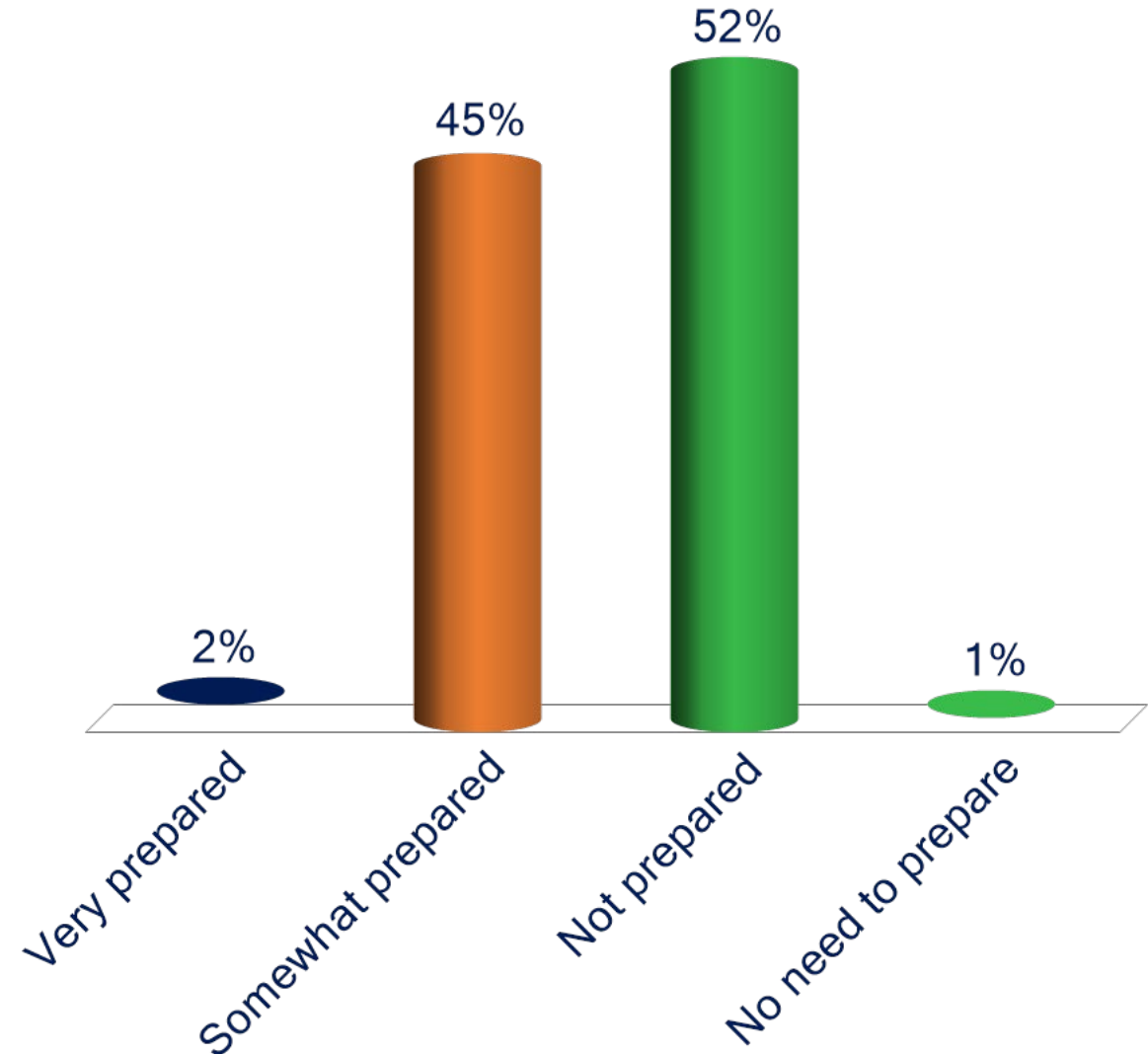
- A. Disease & illness (Lyme disease, EEE, etc.)
- B. Natural disasters
- C. Economic security
- D. Resources shortages
- E. Air and water quality
- F. Loss of biodiversity
- G. Other



How prepared do you feel that you and/or your family are for the impacts of climate change?

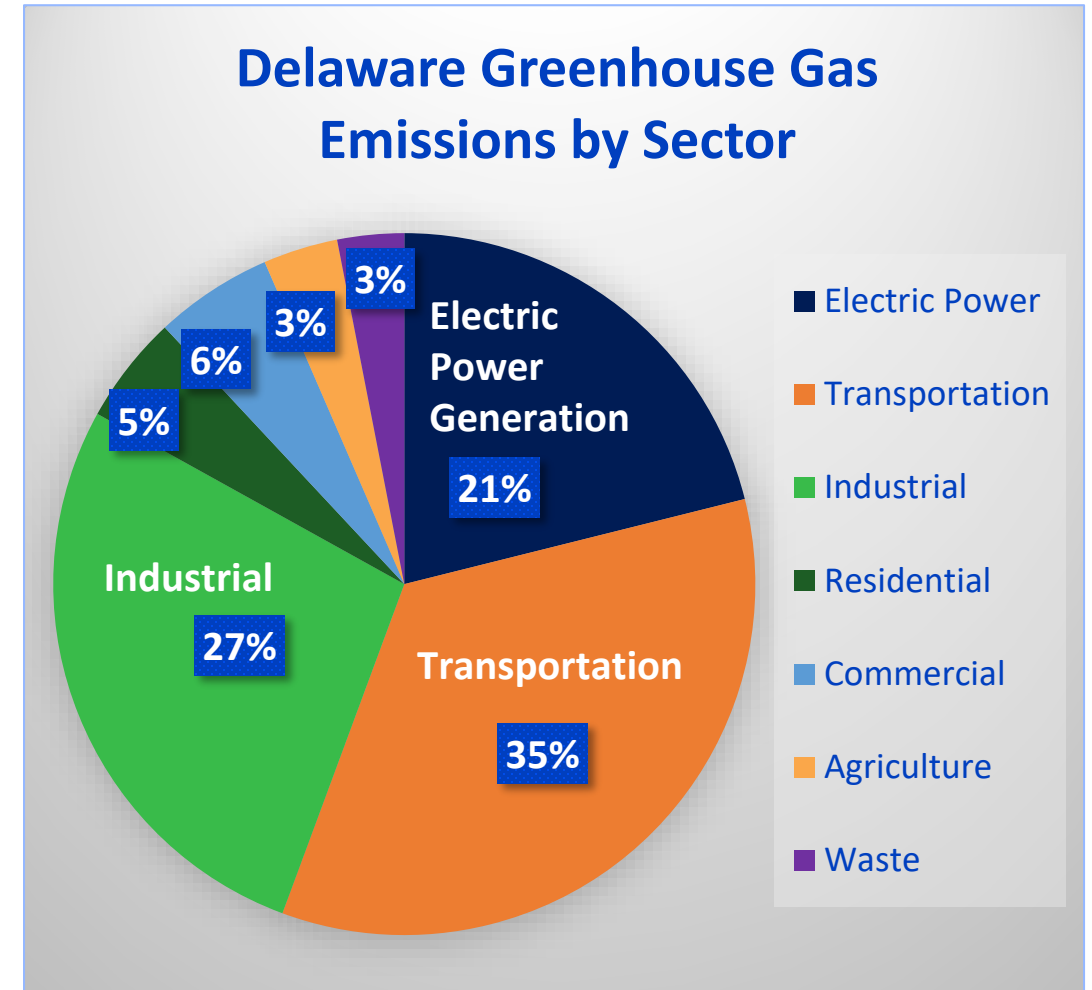
Choose 1

- A. Very prepared
- B. Somewhat prepared
- C. Not prepared
- D. No need to prepare



Greenhouse Gases

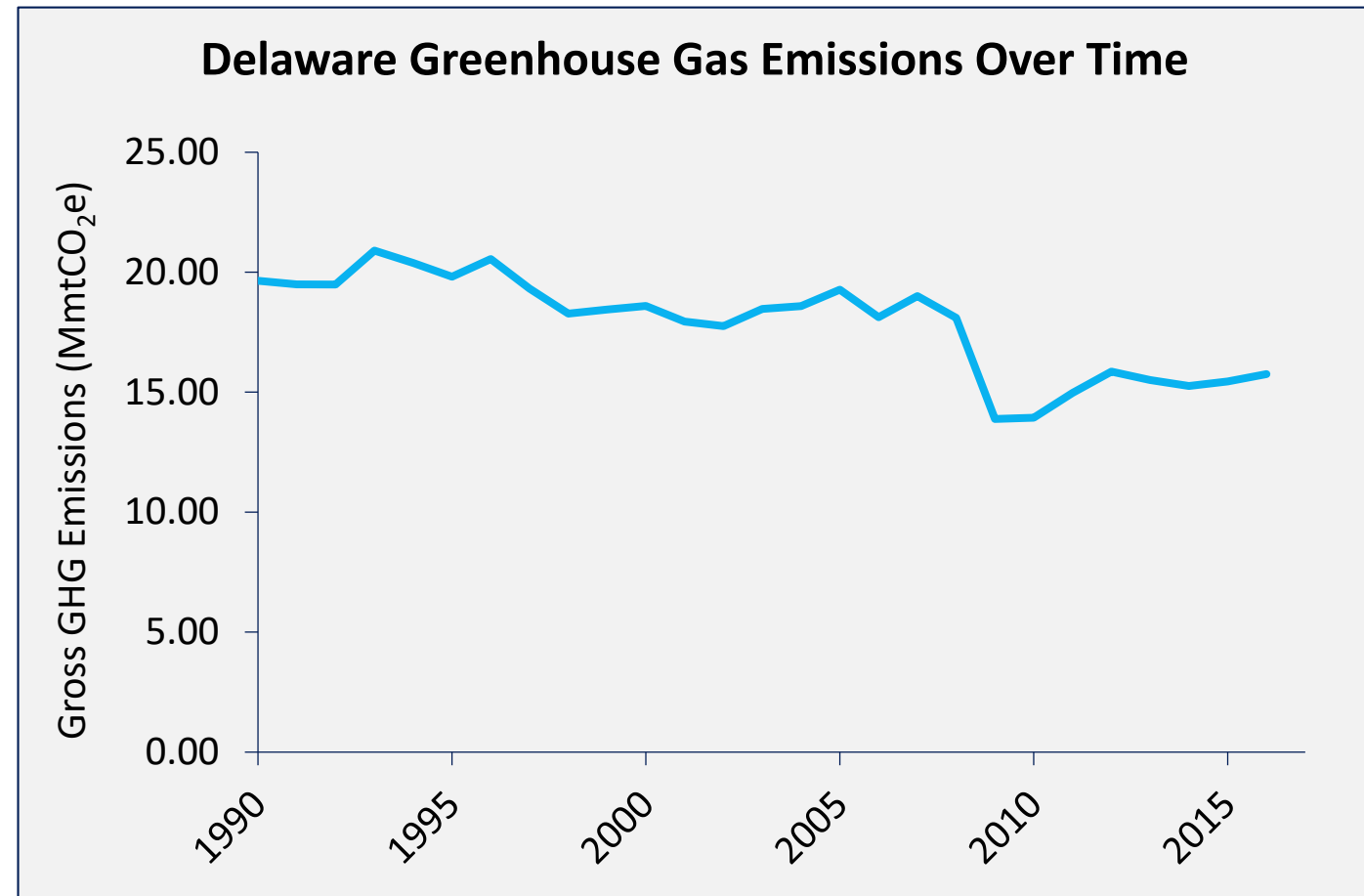
- Greenhouse gases (GHG) are vapors in the atmosphere that trap heat around the earth (like carbon dioxide)
- Since the mid-1800s, humans have released a significant amount of GHGs into the atmosphere
- In the U.S., most GHGs come from burning fossil fuels for electricity, heat, and transportation
- An increased amount of GHGs in the atmosphere has led to rising temperatures and other long-term changes in the climate



Source: Delaware 2016 Greenhouse Gas Inventory

Greenhouse Gases in Delaware

- Delaware's primary sources of GHGs are from transportation (35%), electric power generation (21%), and industrial (27%)
- Delaware has made a commitment to reduce GHG emissions by 26% below 2005 levels by 2025
- So far, Delaware has reduced GHG emissions by about 18%, the state is looking for solutions to ensure it meets its goal



Source: Delaware 2016 GHG Inventory

INCREASED TEMPERATURE

- Number of extremely hot days (over 95°F) are expected to increase
- Annual and seasonal temperatures in Delaware have already increased by 2°F since 1900
- Will threaten public health by worsening air quality and increasing risk of illnesses caused by heat and air pollution



A section of Delaware Route 1 near Milford was damaged by a “road heaving” incident that caused the roadway to buckle. Asphalt surfaces and other materials can be damaged during heat waves.

Source: DelDOT

SEA-LEVEL RISE

- By 2050, sea levels could rise by almost 2 feet
- Will harm soil and groundwater quality in coastal regions
- Will result in more erosion of beaches, roads, and other infrastructure in low-lying areas



Coastal Route 9 has experienced flooding from higher tide elevations from sea-level rise.

Source: DNREC

EXTREME PRECIPITATION

- Average precipitation is expected to increase by about 10% by 2100
- Heavy rainstorms are expected to become more frequent and more intense
- Extreme rainfall events affect agriculture by destroying crops, damaging farm facilities, and increasing crop disease pressure

In April and May 2018, rain destroyed several high dollar crops and threatened the yield of many others. The Secretary of Agriculture Michael T. Scuse made a request for an emergency disaster declaration to USDA's Farm Service Agency (FSA) State Service Center.

Source: Delaware.gov





DELAWARE'S

Climate Action Plan

Delaware's Climate Action Plan will protect and strengthen:

- Our agricultural and tourism economies
- The natural places we enjoy for recreation
- Our infrastructure
- The health of our residents and visitors
- Access to clean energy and transportation
for all Delawareans

The plan will consider solutions in a variety of areas, including:

**Renewable Energy
(wind and solar)**

**Agriculture and
Conservation**

**Energy Efficiency and Industrial
Refrigerants**

**Support for local communities
(technical assistance, grant funding)**

**Clean Transportation
(public transit, electric vehicles)**

Partnerships with other states

PROJECT TIMELINE

Spring
2020

Round 1 of public workshops
and technical advisory
workshops

Fall
2020

Round 2 of public workshops
and technical advisory
workshops



Release analysis of greenhouse gas
reduction strategies

Additional public workshops on
adaptation strategies

Summer
2020

Release Delaware's
Climate Action Plan

December
2020



MAKE YOUR VOICE HEARD

› The success of this plan depends on public involvement.

In person



Attend a public meeting.

Online



Visit declimateplan.org.
Engage online.

Word of Mouth



Tell your family, friends, neighbors, and coworkers.

Small Group Breakouts



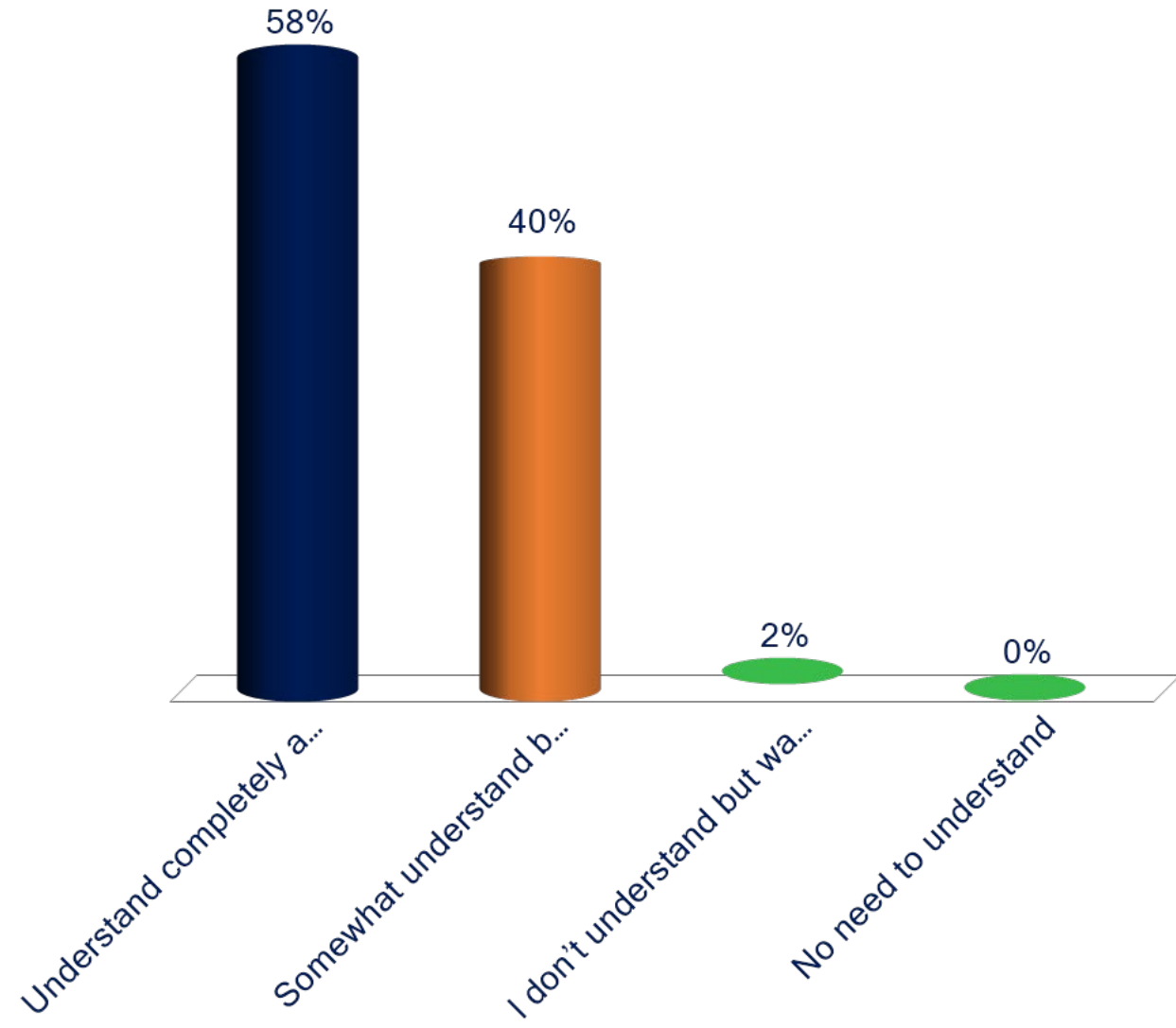
Meeting Ground Rules

- Have One Conversation at a Time (at each table)
- Share Air Time so All Can Participate
- Be Purposeful and to the Point
- Stay Curious and Open to the Perspectives of Others
- Share Reasons Behind Questions and Statements



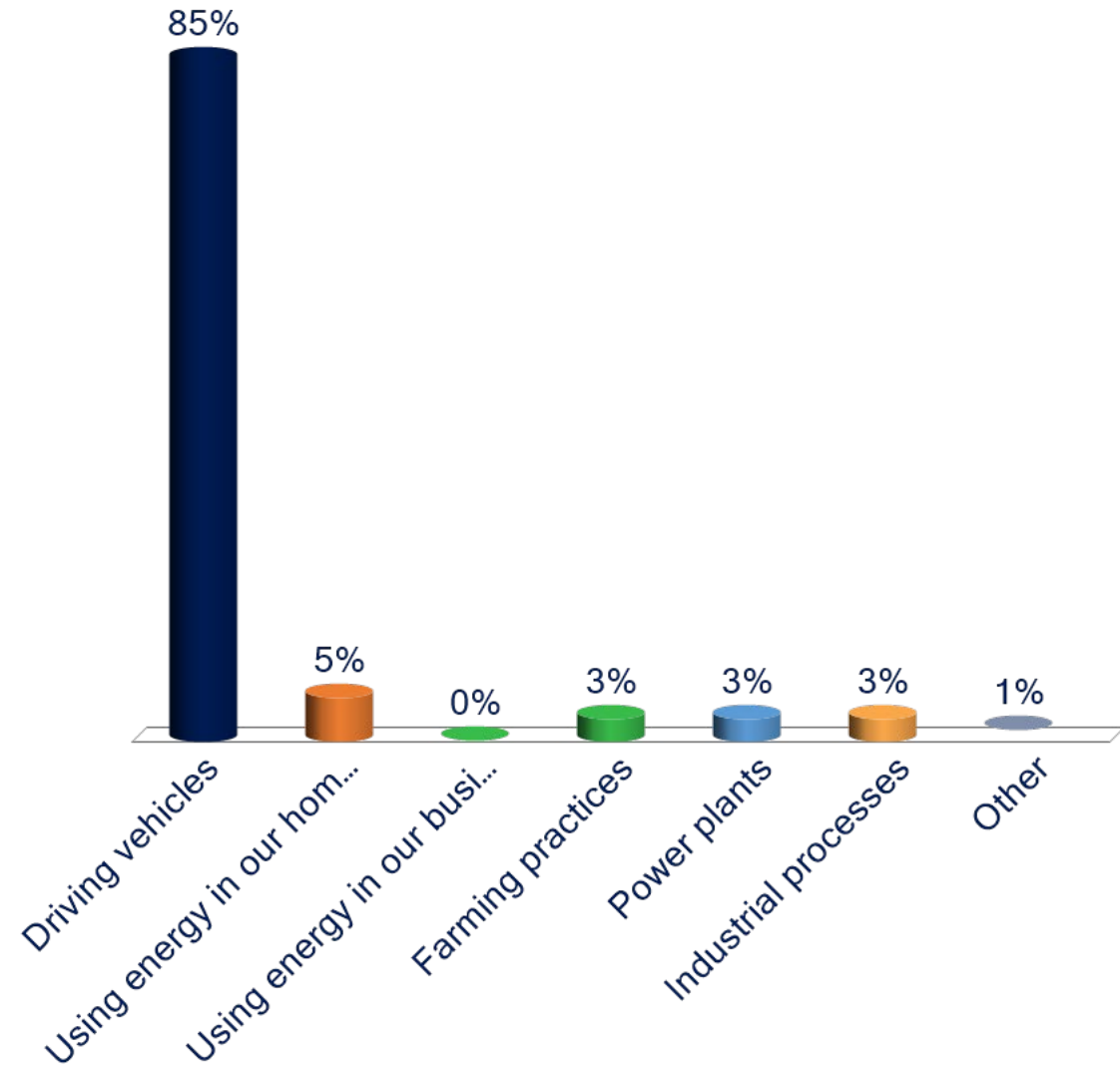
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THANK YOU

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