## **BUILDINGENERGY BOSTON**

A Framework for Action: What's Our Role?

**Crystal Chissell (Project Drawdown)** 

Northeast Sustainable Energy Association (NESEA)
March 1, 2022

# PROJECT DOWN

A FRAMEWORK FOR ACTION: WHAT'S OUR ROLE?

Crystal Chissell, JD, MS, MBA Senior Director Drawdown Communities

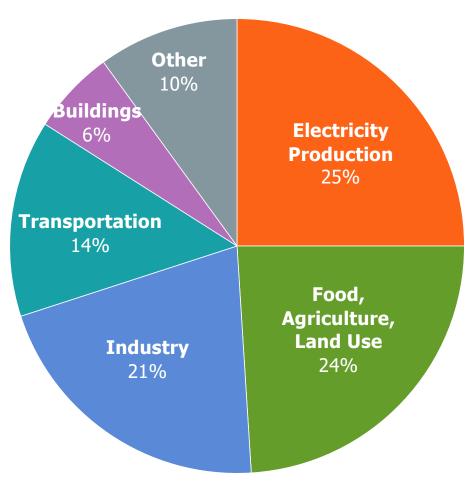


Image Credit: NASA

## GREENHOUSE GASES TRAP HEAT IN EARTH'S ATMOSPHERE, CAUSING AVERAGE GLOBAL TEMPERATURES TO RISE.

- CARBON DIOXIDE
- METHANE
- NITROUS OXIDE
- REFRIGERANT GASES

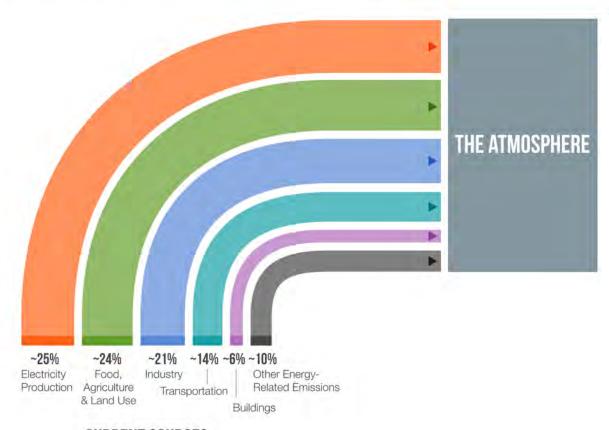
### **GREENHOUSE GAS SOURCES**



Source: IPCC WG3 AR5





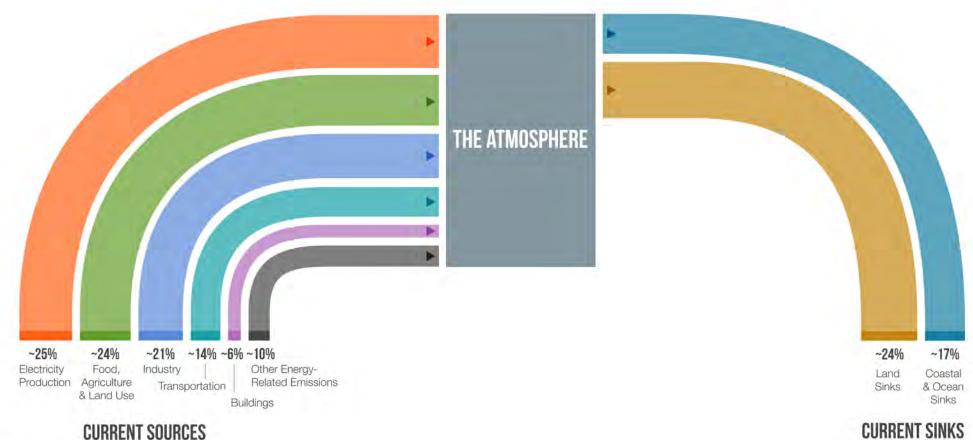


#### **CURRENT SOURCES**



Copyright © 2020, Project Drawdown

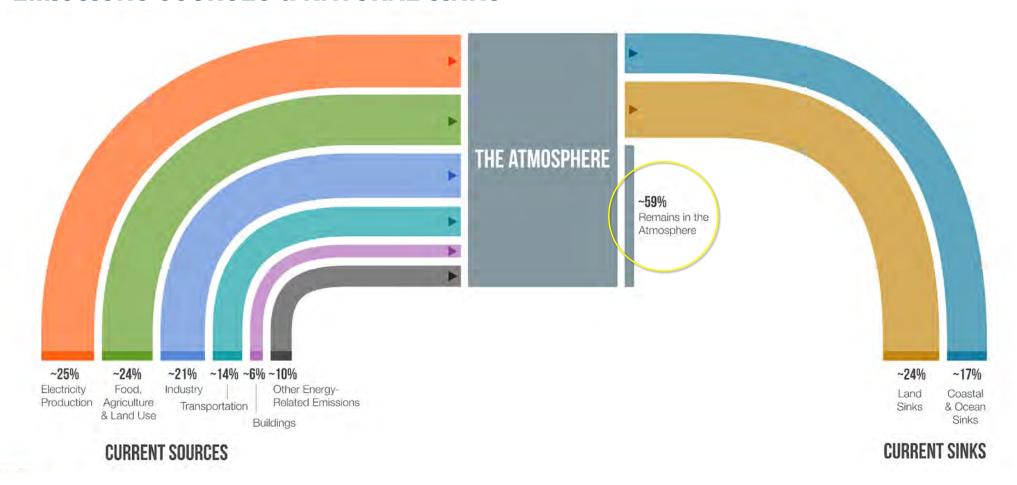
Source: IPCC (2014) & Global Carbon Project (2019)



PROJECT DRAWDOWN.

Copyright © 2020, Project Drawdown

Source: IPCC (2014) & Global Carbon Project (2019)



Copyright © 2020, Project Drawdown

Source: IPCC (2014) & Global Carbon Project (2019)

## WHAT IS DRAWDOWN?

Greenhouse Gas Levels

## Drawdown solutions are technologies and practices that reduce greenhouse gas levels in the atmosphere

**Currently available** 

+ Financially viable

+ Proven potential to reduce GHGs

Sufficient data available to model



Size represents maximum potential emissions reductions (OO<sub>x</sub>eq (Gt)) 2020-2050



1. REDUCE SOURCES











#### How to Read It

Size represents maximum potential emissions reductions (OO<sub>x</sub>-eq (Gt)) 2020-2050





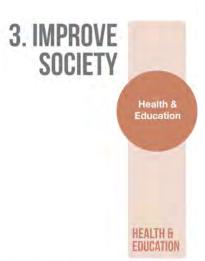
Copyright © 2020, Project Drawdown

Source: Project Drawdown Analysis, www.drawdown.org

#### How to Read It

Size represents maximum potential emissions reductions (CO<sub>2</sub>-eq (Gt)) 2020-2050







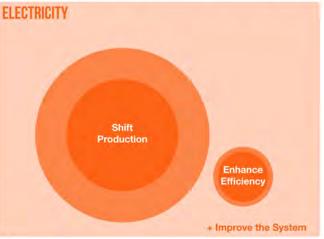
#### How to Read It

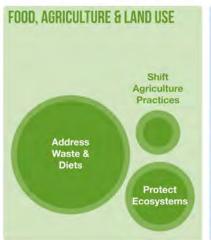
Size represents potential emissions reductions (CO<sub>5</sub>-eq (Gt)) 2020-2050



## 1. REDUCE SOURCES

2. SUPPORT SINKS













COASTAL & OCEAN SINKS

Protect & Restore Ecosystems

ENGINEERED SINKS

Remove & Store Carbon

3. IMPROVE SOCIETY

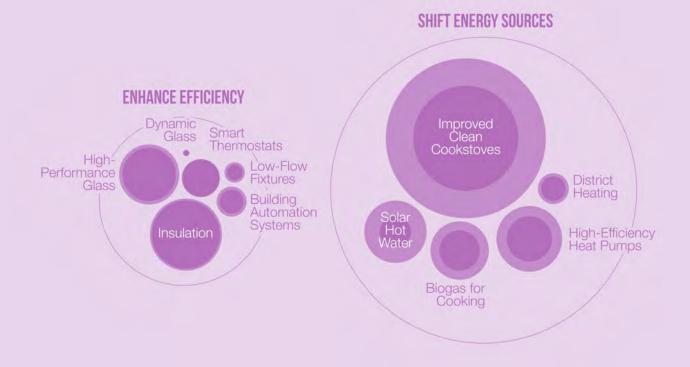
Health & Education

HEALTH & EDUCATION

PROJECT DRAWDOWN

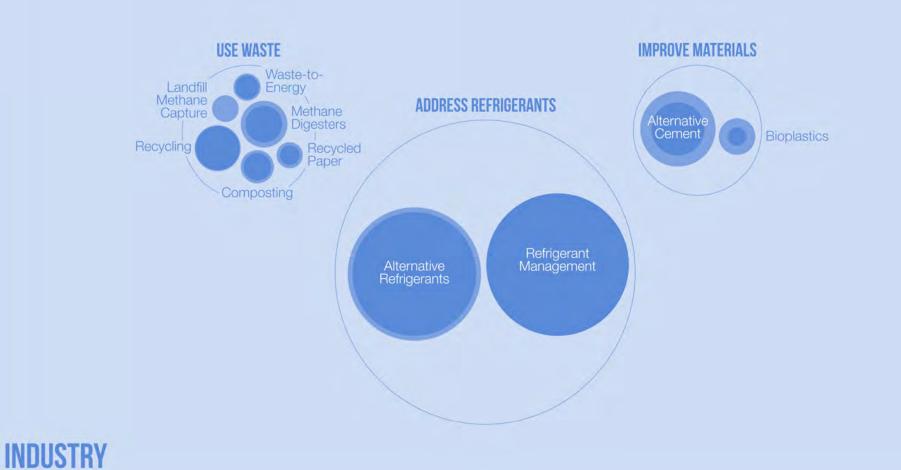
Copyright © 2020, Project Drawdown

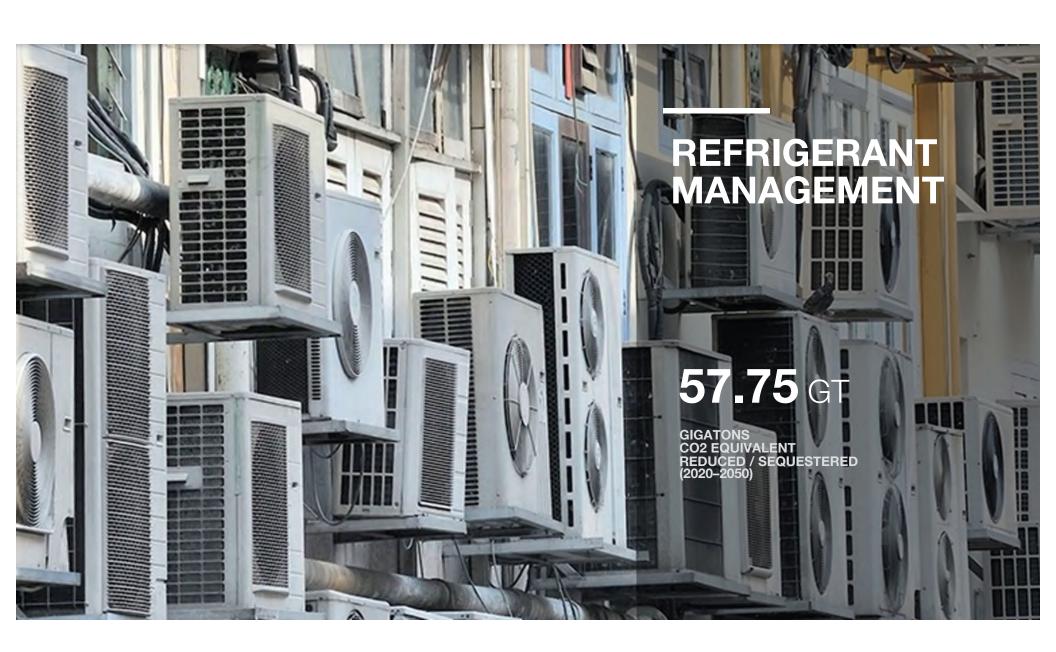
Source: Project Drawdown Analysis, www.drawdown.org

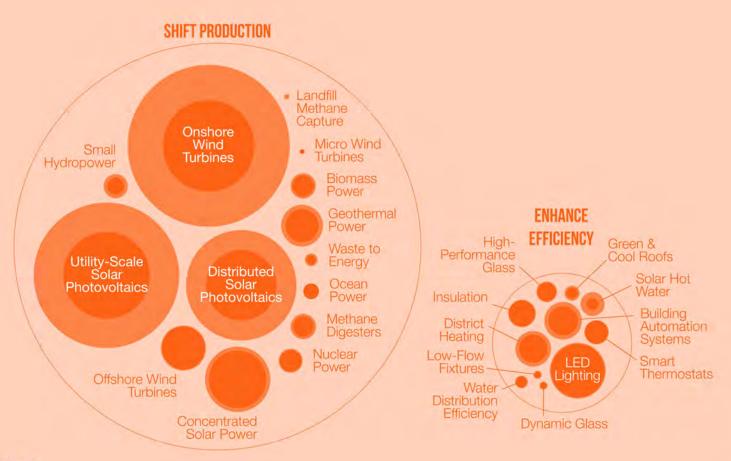








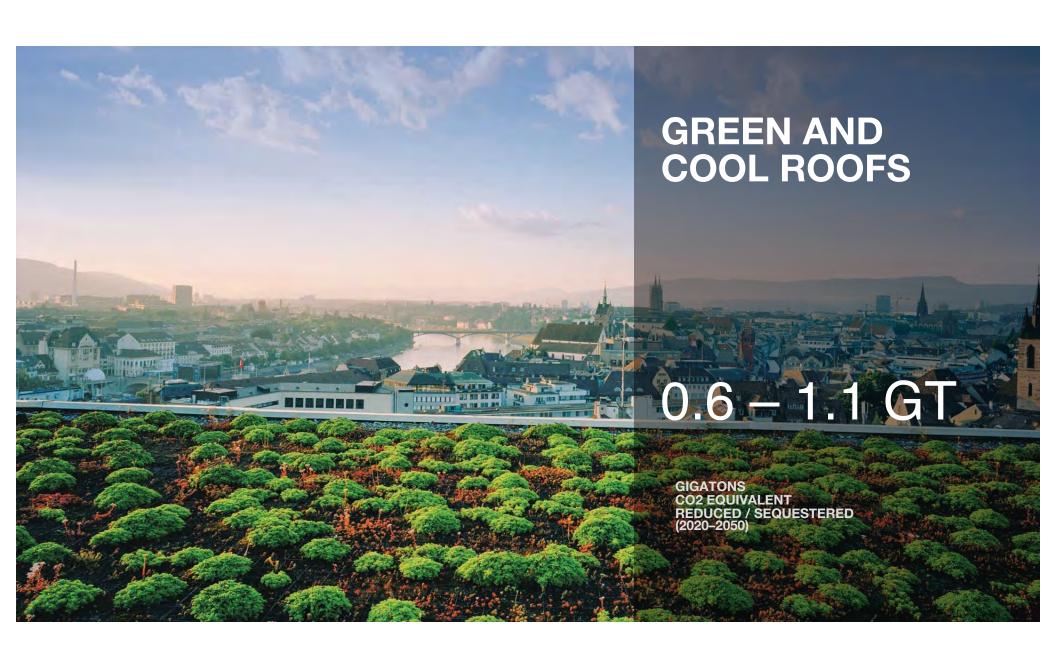


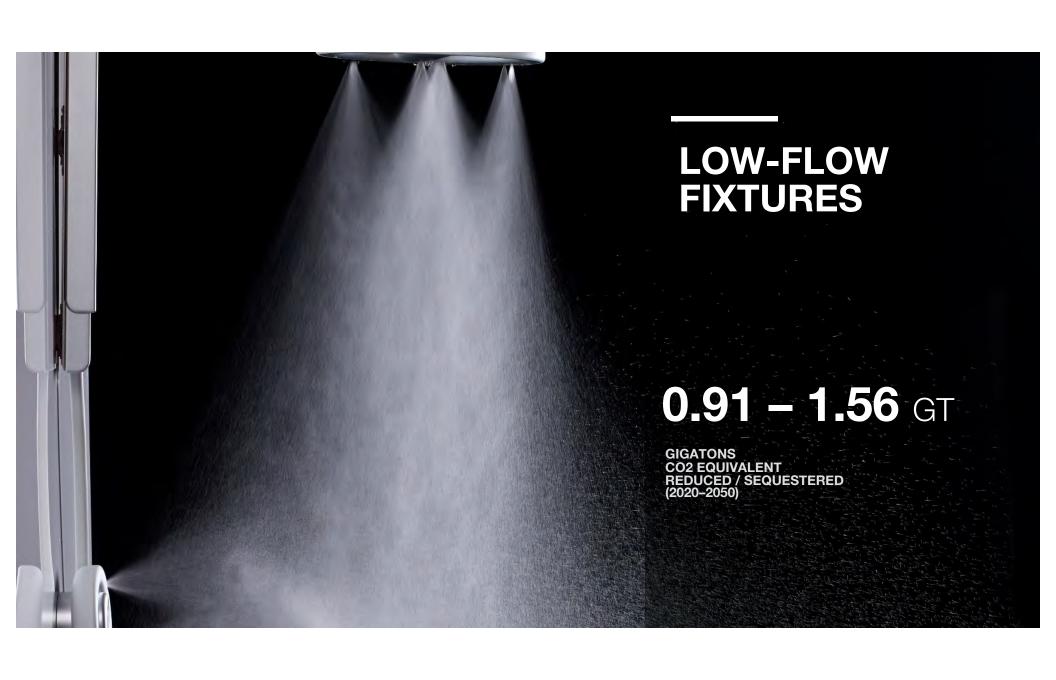


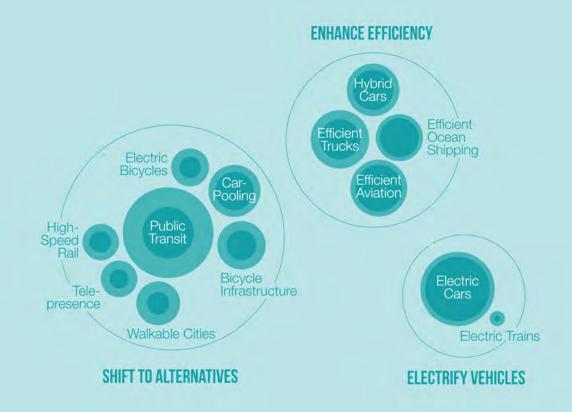
**ELECTRICITY** 

& Improve the System

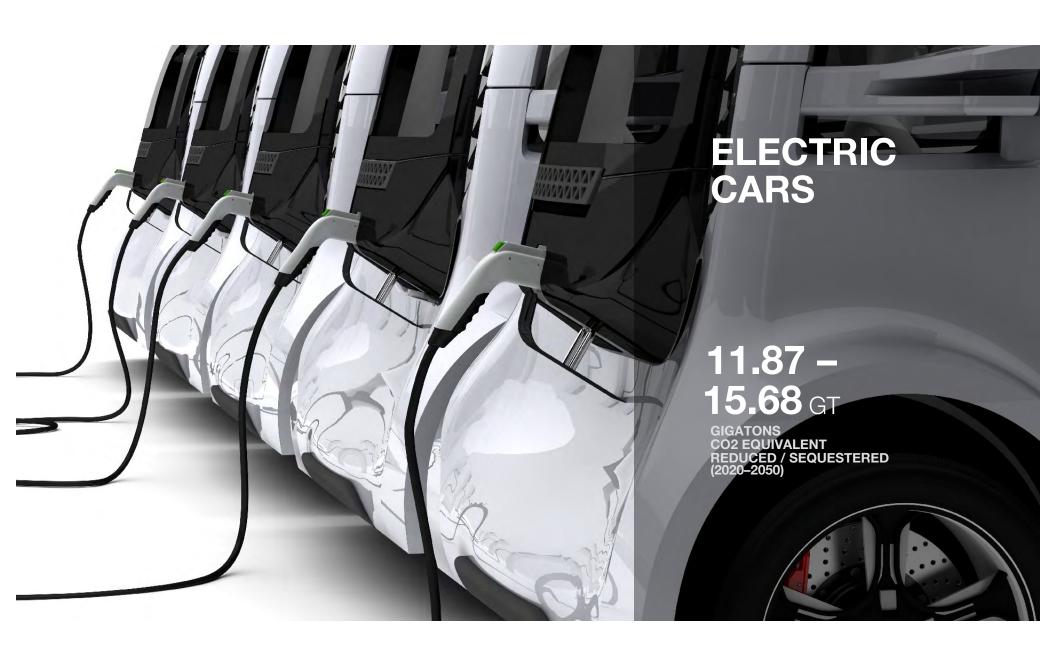




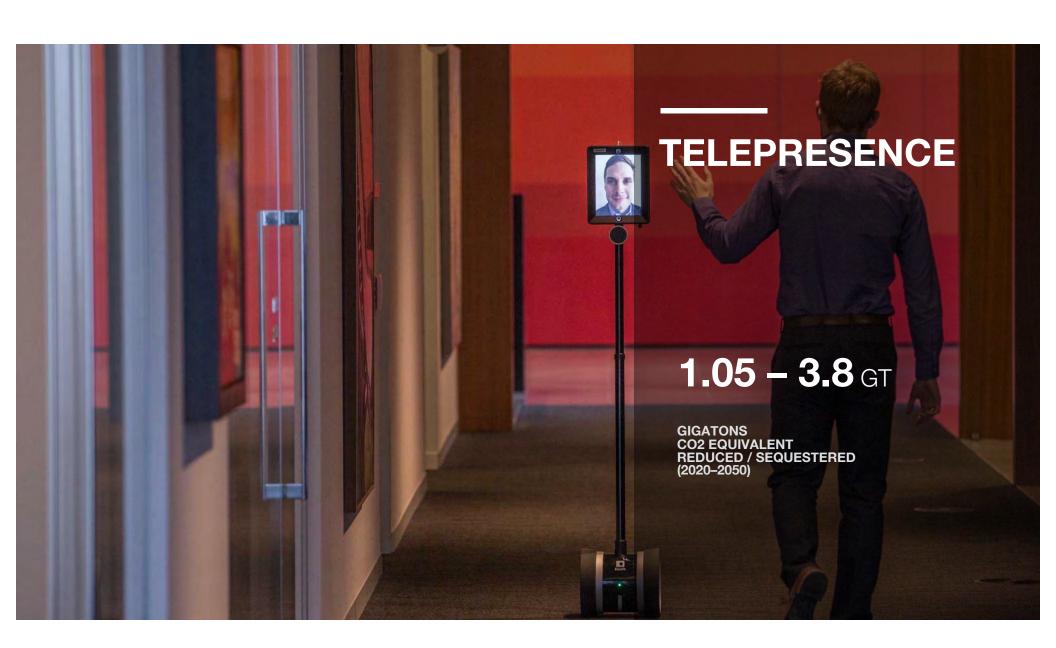




#### **TRANSPORTATION**

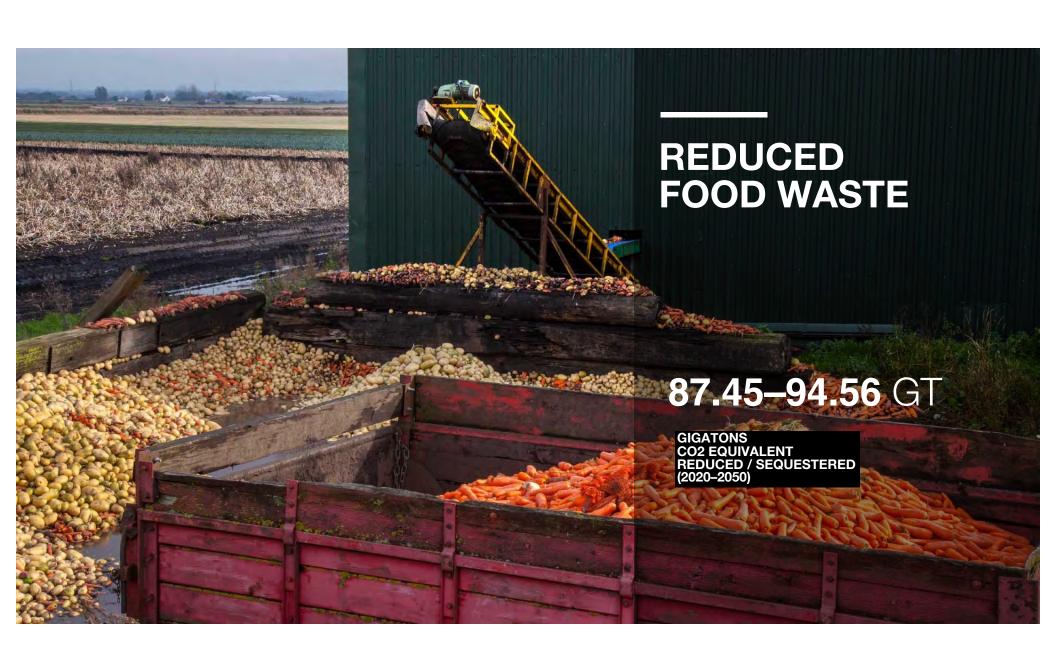




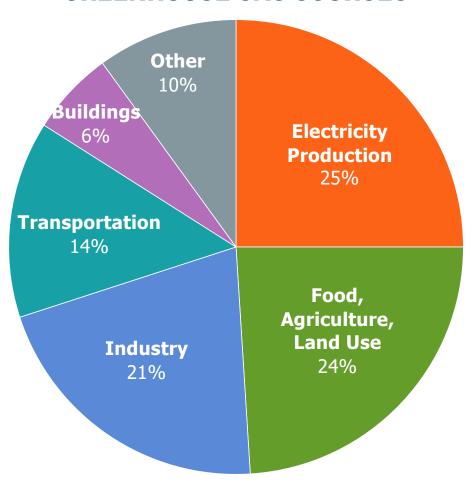






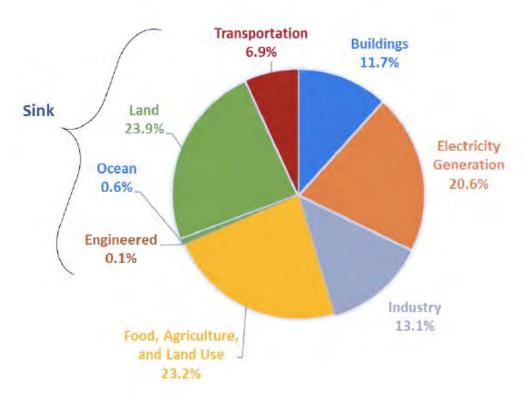


### **GREENHOUSE GAS SOURCES**



Source: IPCC WG3 AR5

#### TOTAL POTENTIAL CO2-EQ REDUCTION, 2020 — 2050, BY SECTOR



Source: Project Drawdown data to be released in 2022



### **Building professionals**

**See potential** 

Make it safe and sound

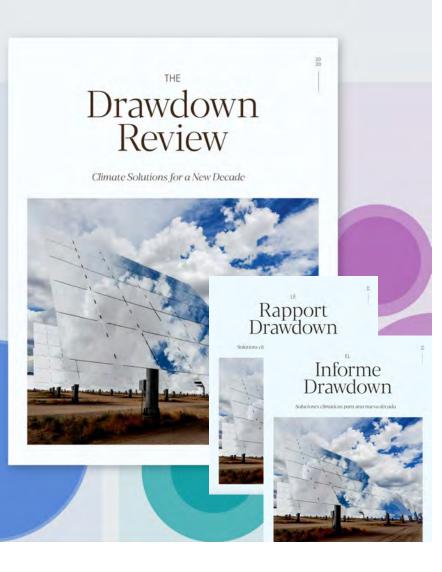
Allow people to be together

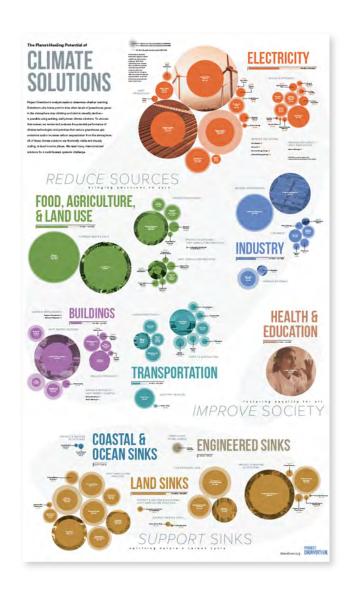
Make it beautiful

**Work in teams** 

Make things that last

THE LATEST
CLIMATE
SOLUTIONS
RESEARCH +
INSIGHTS







# PROJECT DOWN

Learn more: drawdown.org