Jamie Beck Alexander
jamie.alexander@drawdown.org

IMAGE: NASA

IMAGE: NASA

IMAGE: NASA

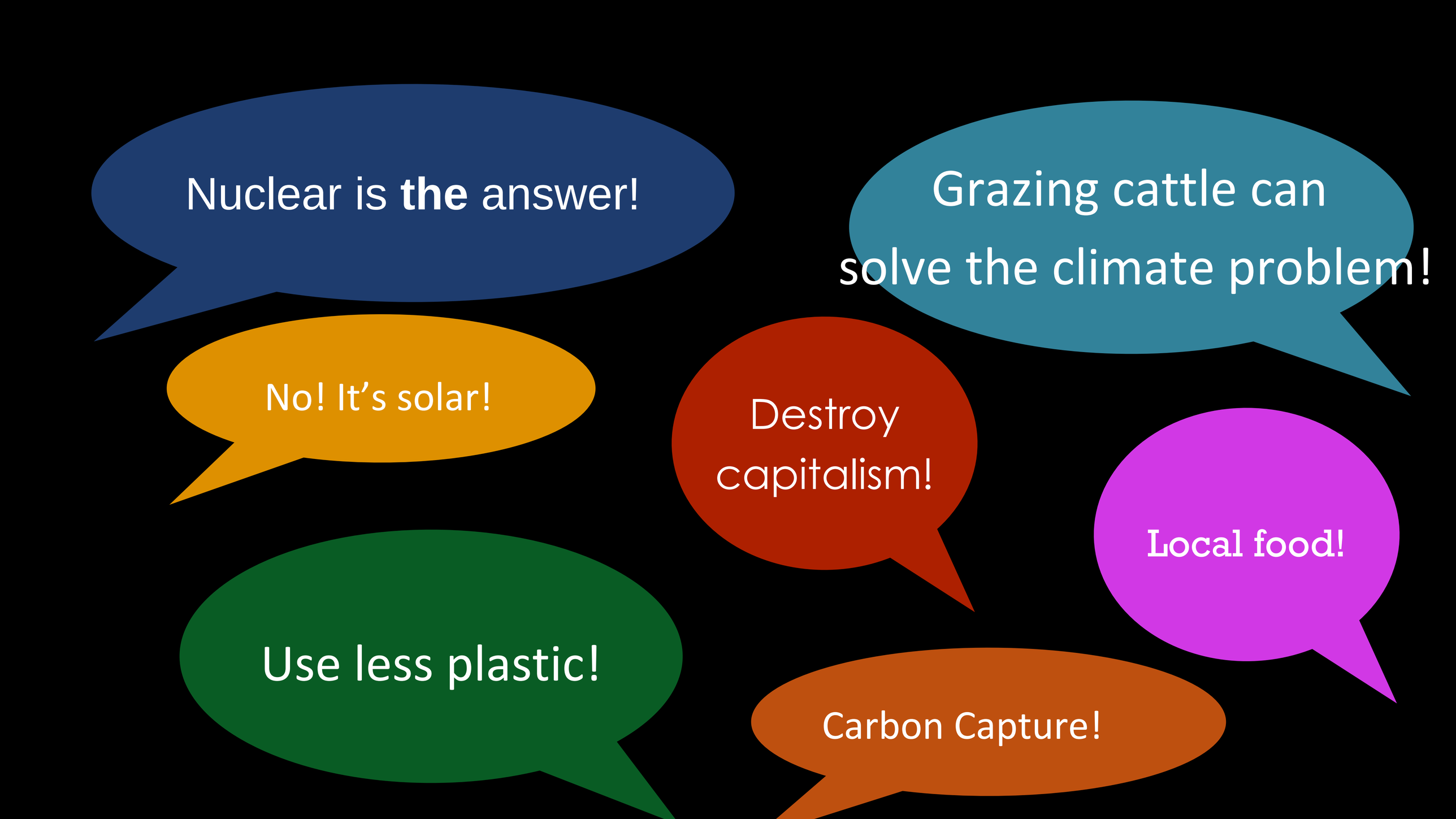
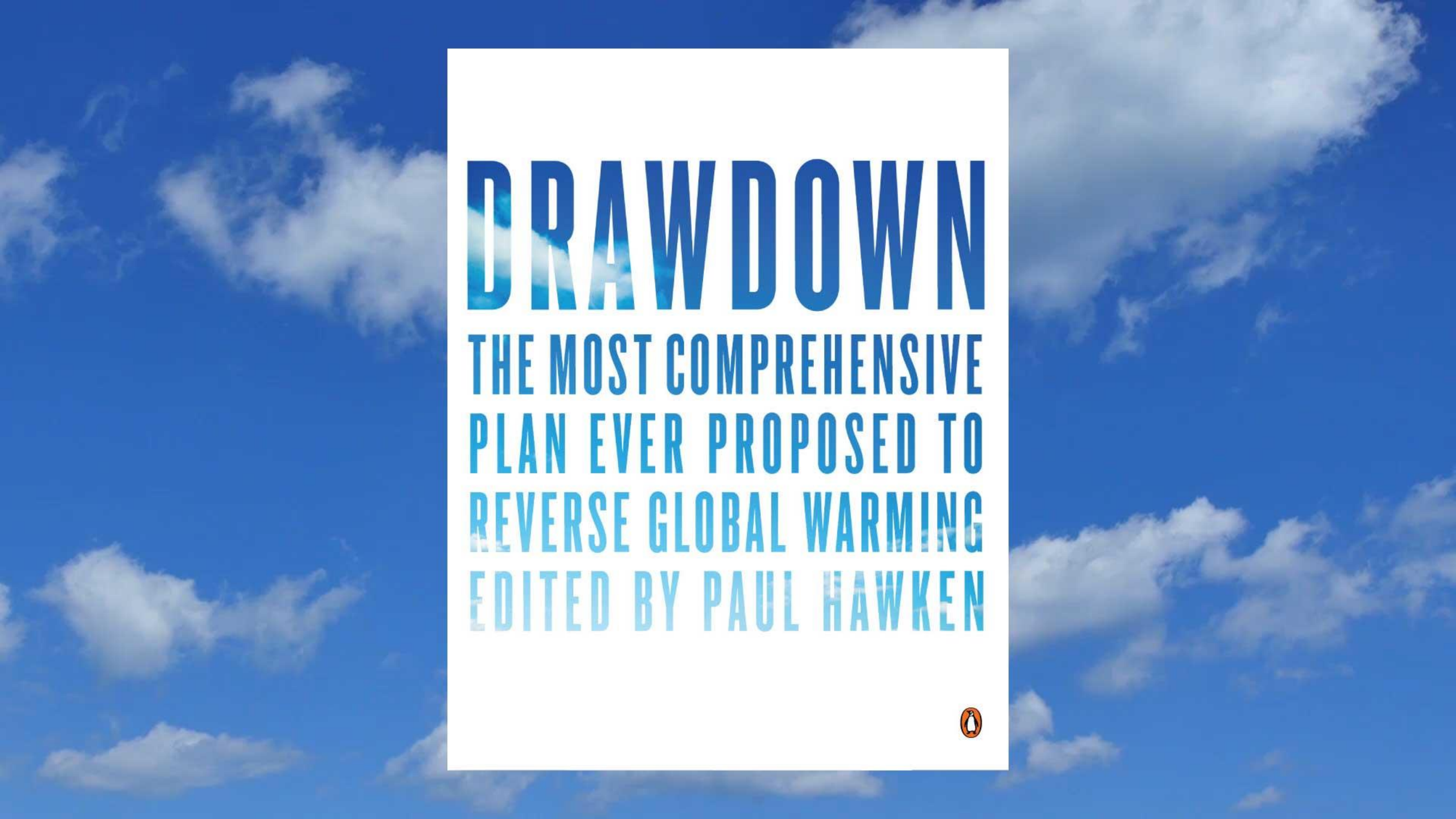
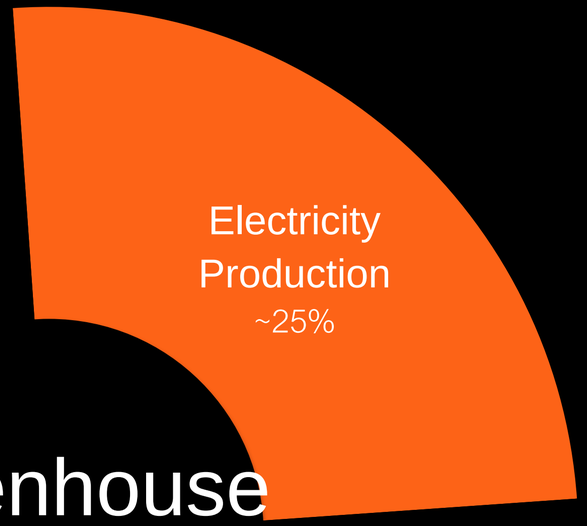

Nuclear is **the** answer!
Grazing cattle can solve the climate problem!
No! It's solar!
Destroy capitalism!
Local food!
Use less plastic!
Carbon Capture!

IMAGE: NASA


DRAWDOWN
THE MOST COMPREHENSIVE PLAN EVER PROPOSED TO REVERSE GLOBAL WARMING
EDITED BY PAUL HAWKEN

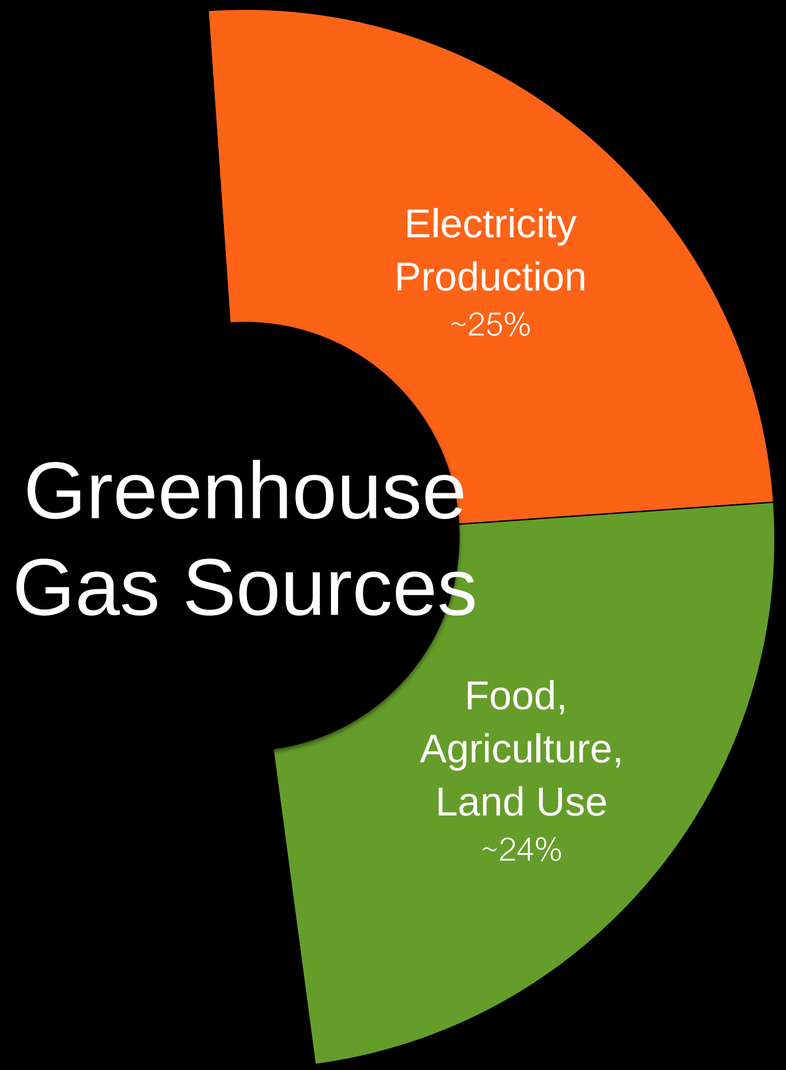
DATA: IPCC WG3 AR5



Greenhouse Gas Sources

DATA: IPCC WG3 AR5

Greenhouse Gas Sources



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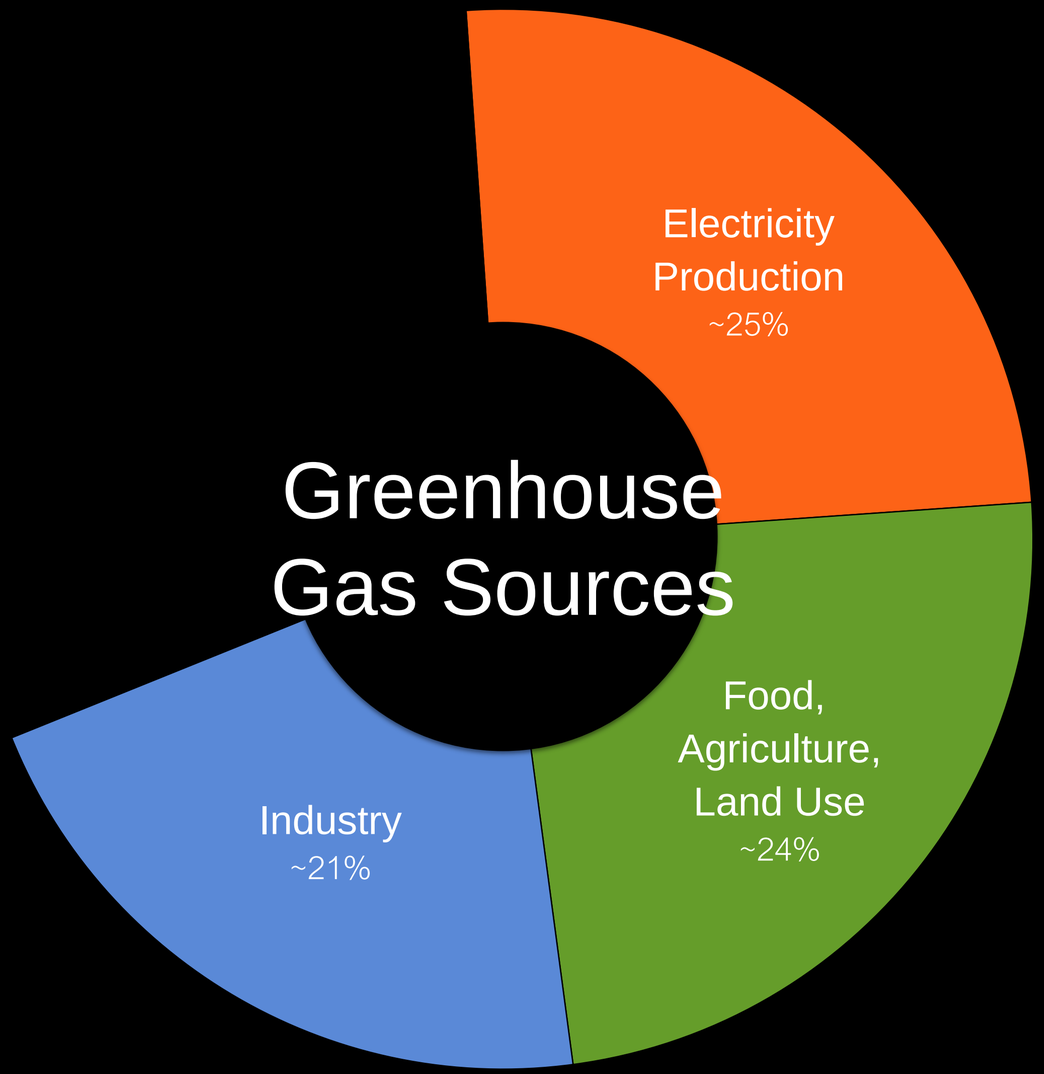
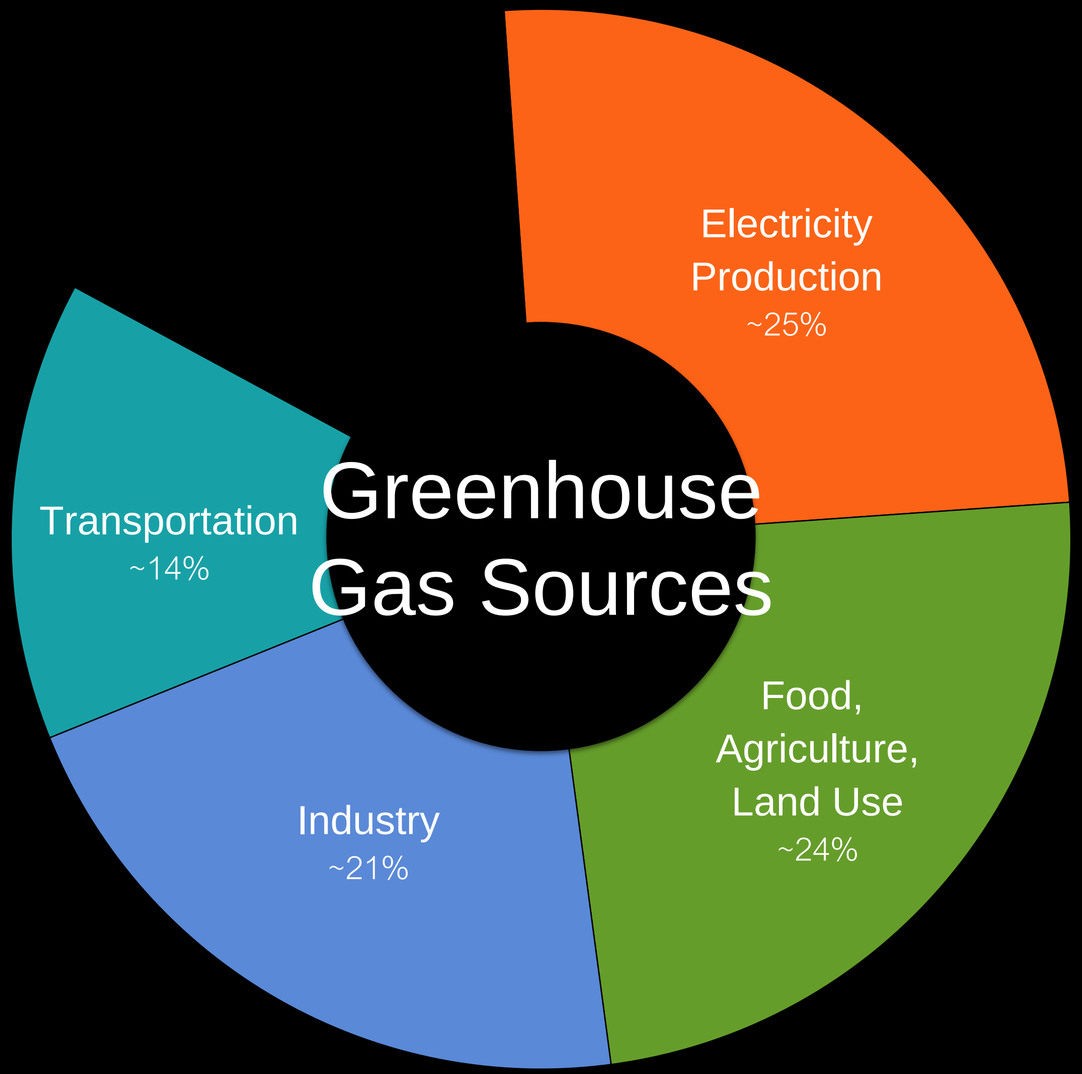


DATA: IPCC WG3 AR5



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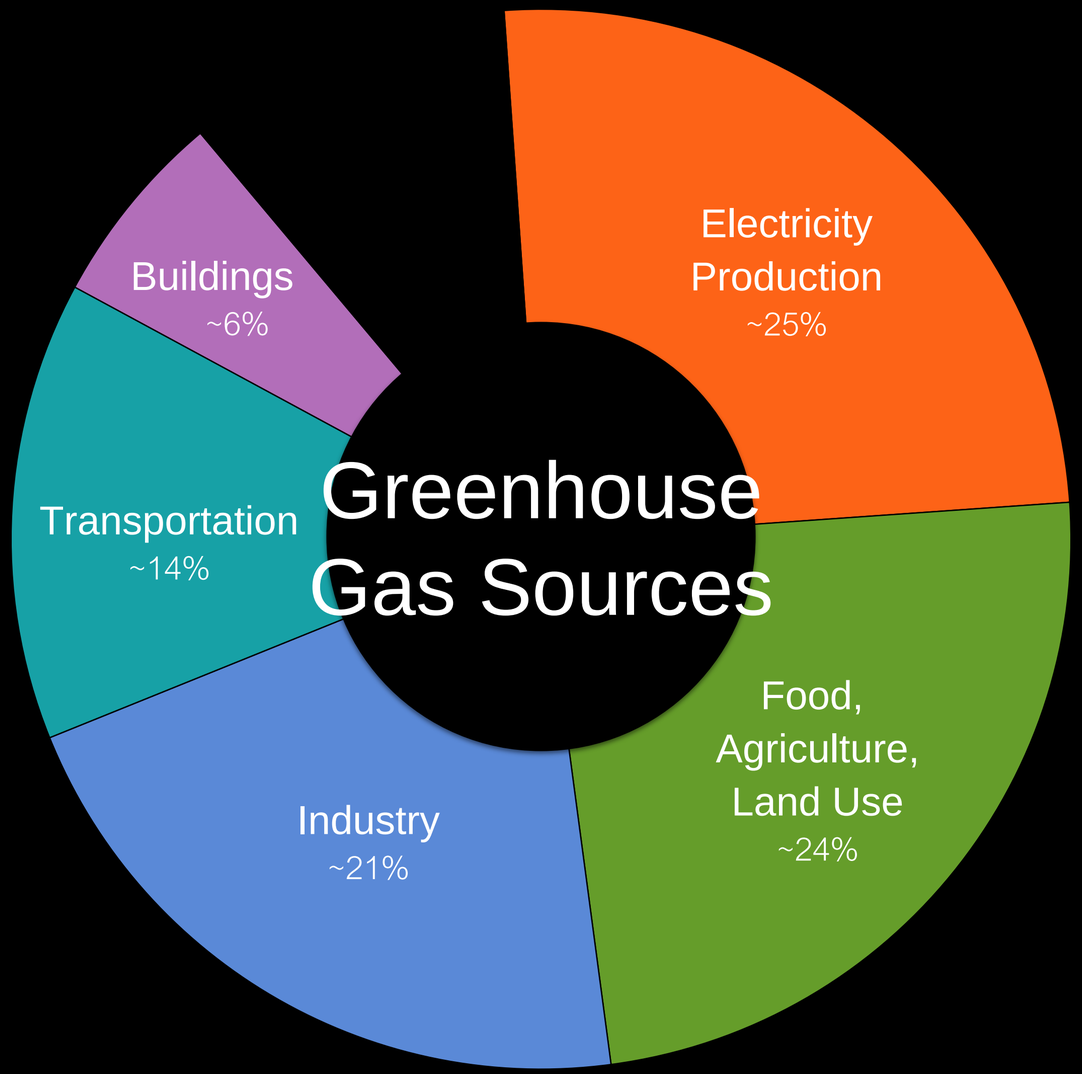

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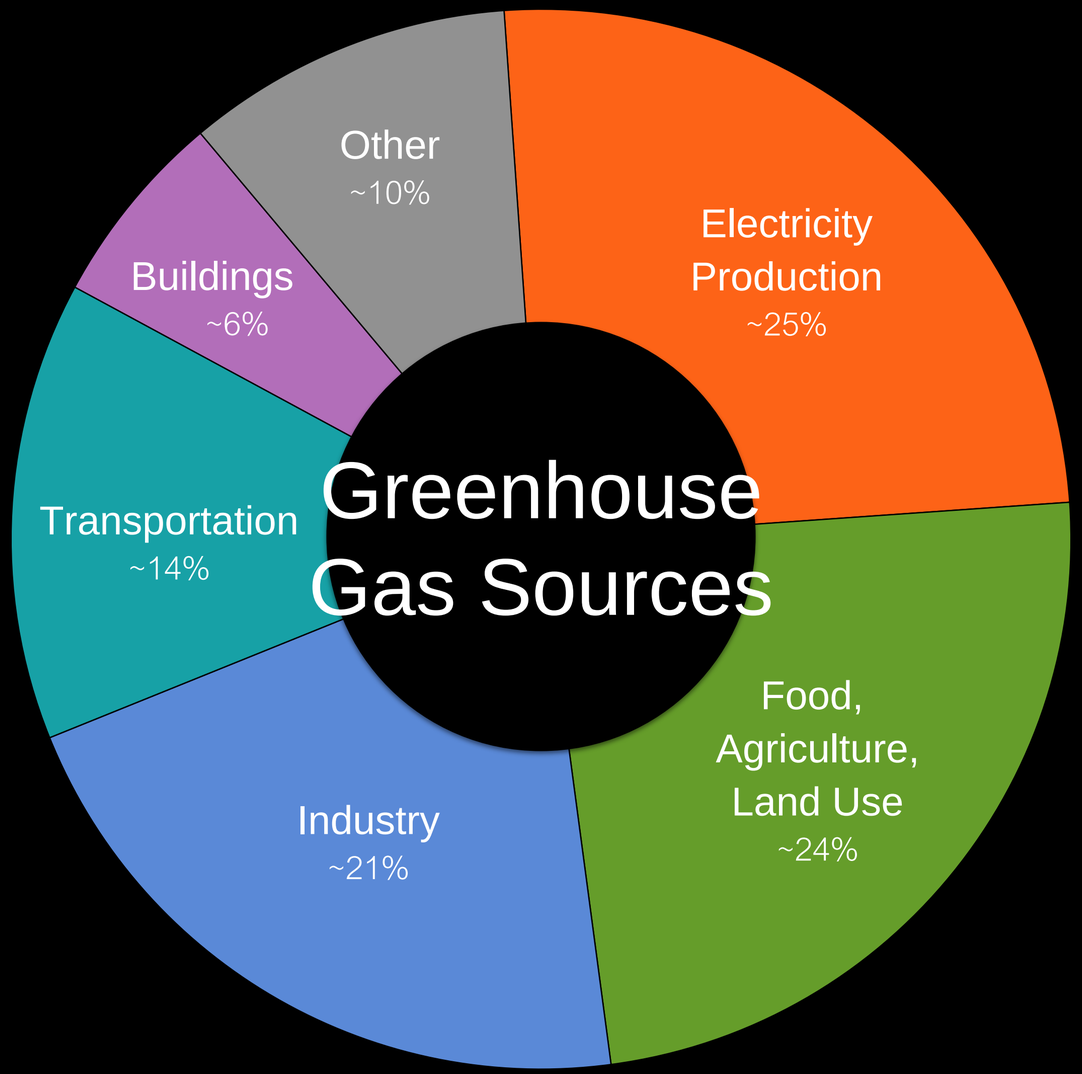
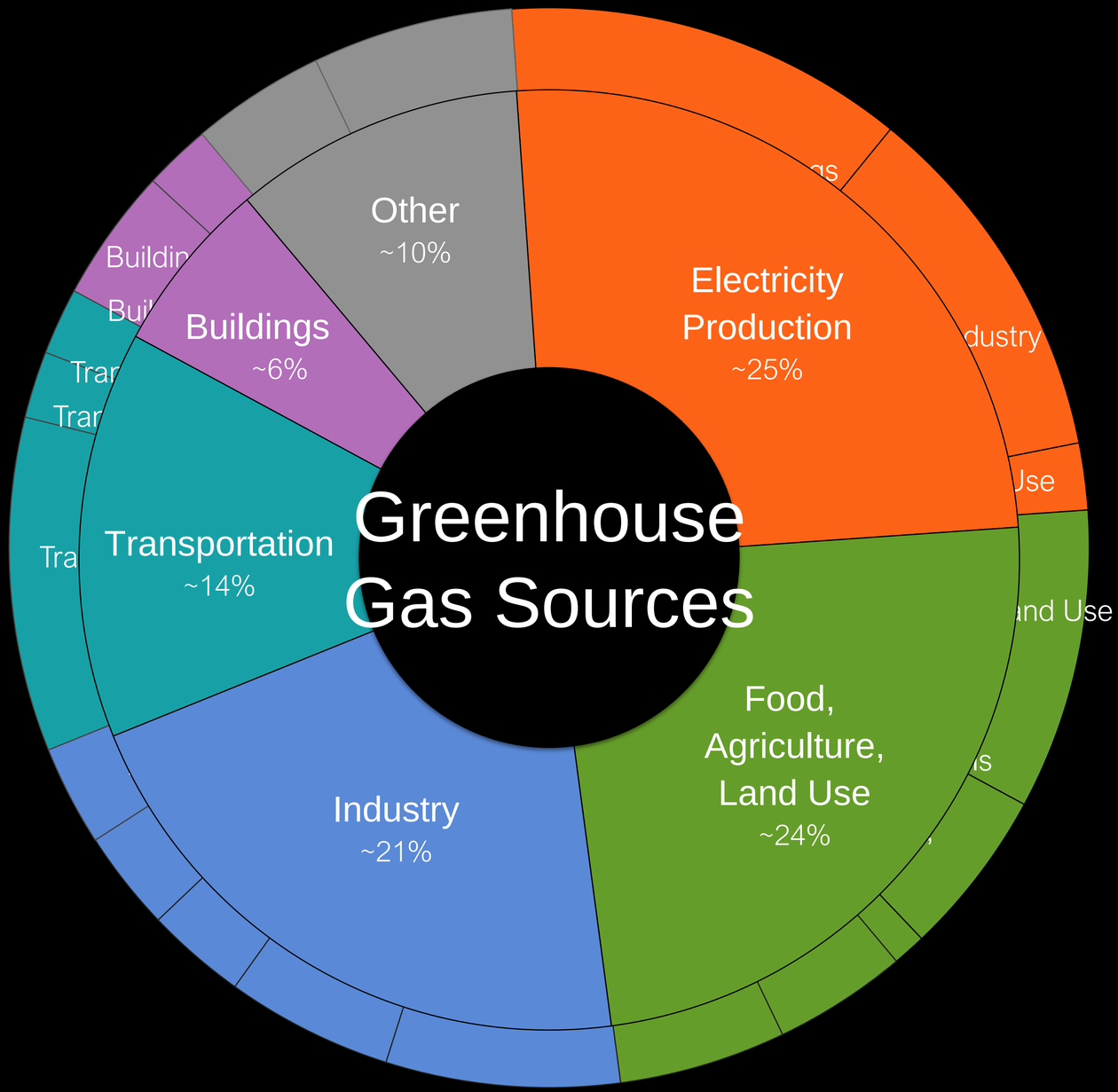
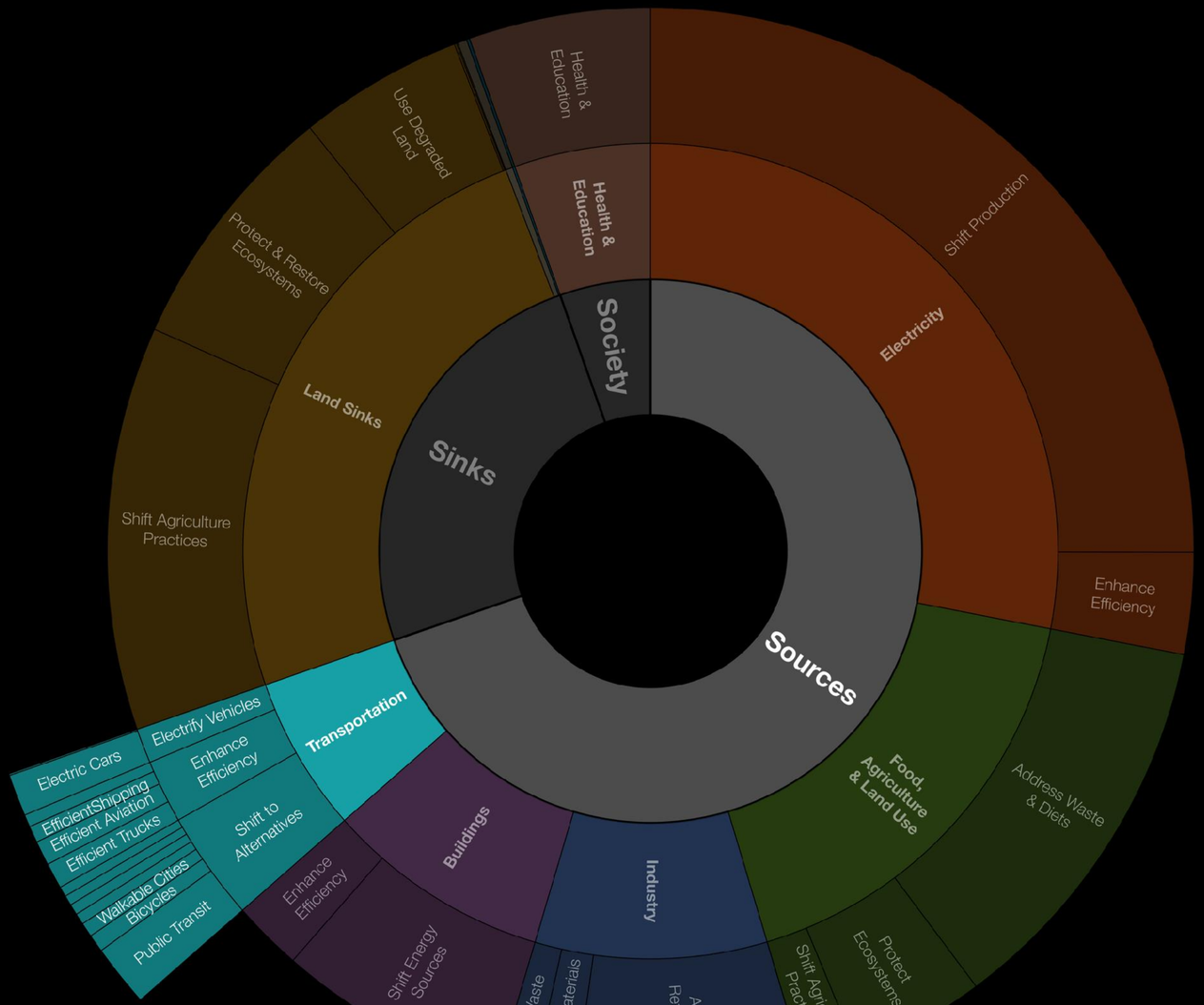


DATA: IPCC WG3 AR5





ROOFTOP SOLAR

#10
RANK BY 2050

24.60 GT
REDUCED CO2

$453B
NET COST

$3.46T
NET SAVINGS

REDUCED FOOD WASTE

#3
RANK BY 2050

70.53 GT
REDUCED CO2

REFRIGERATION

#1
RANK BY 2050

89.74 GT
REDUCED CO2

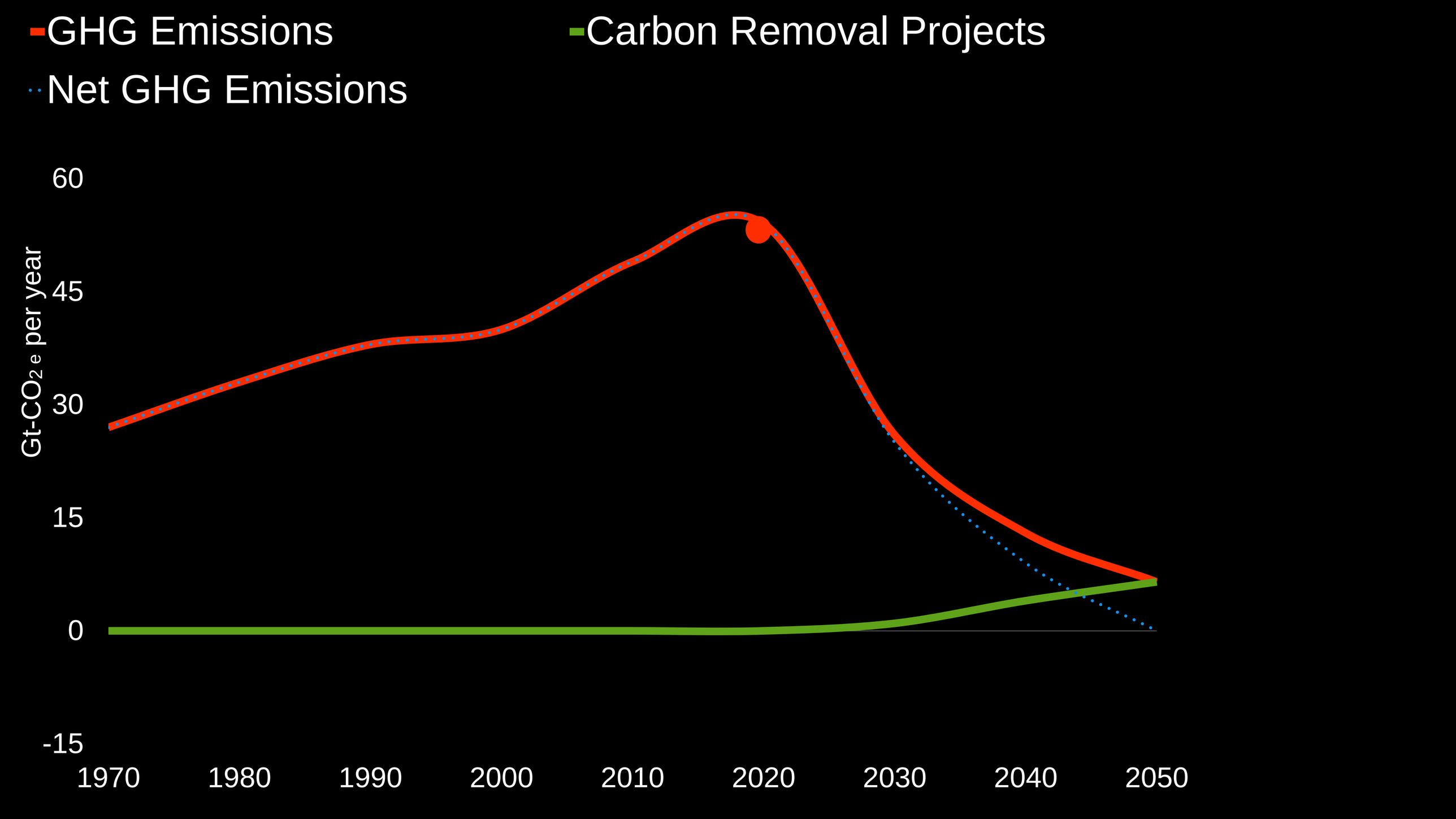
TOO VARIABLE TO BE DETERMINED
NET COST

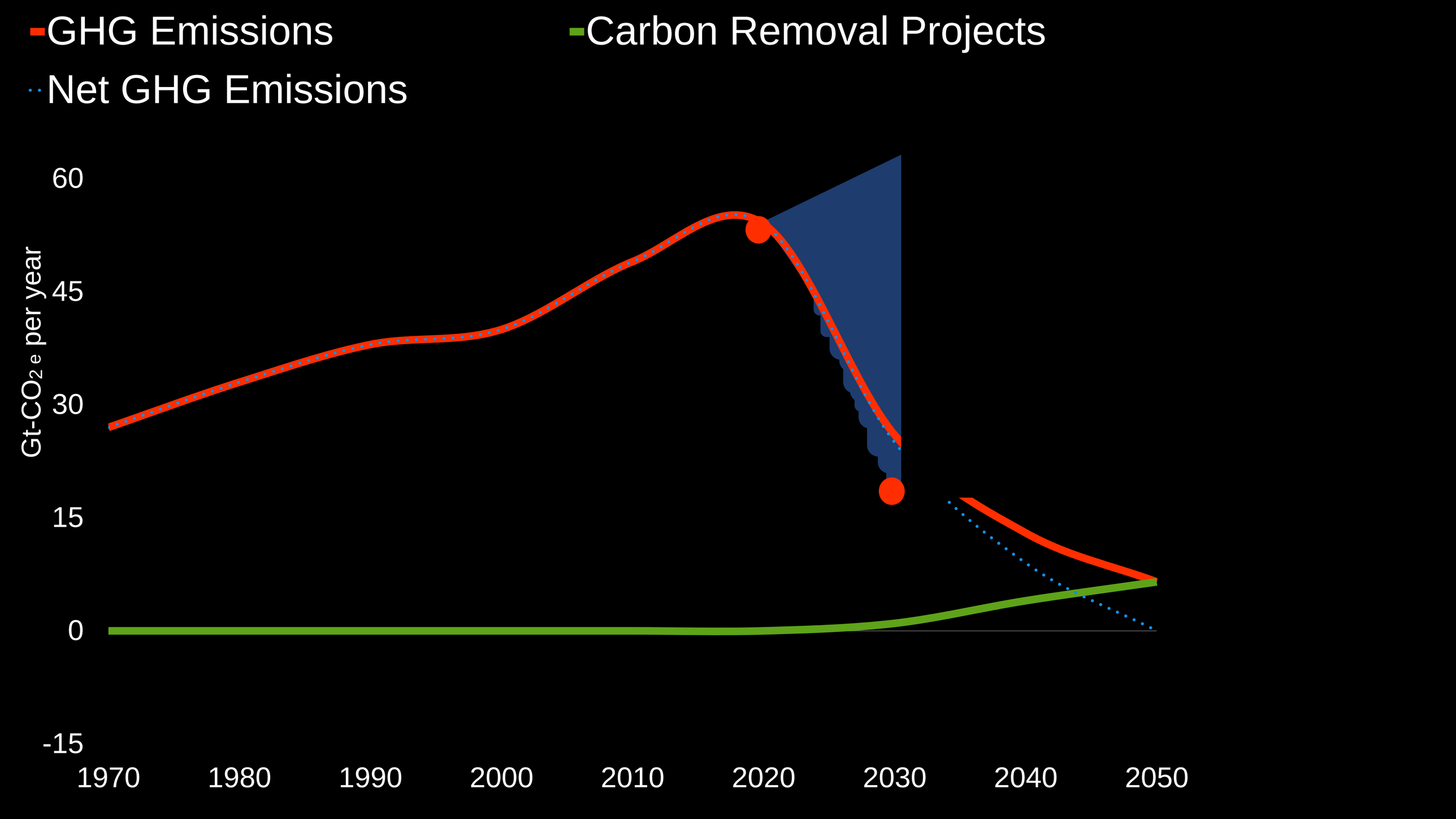
-$902B
NET SAVINGS

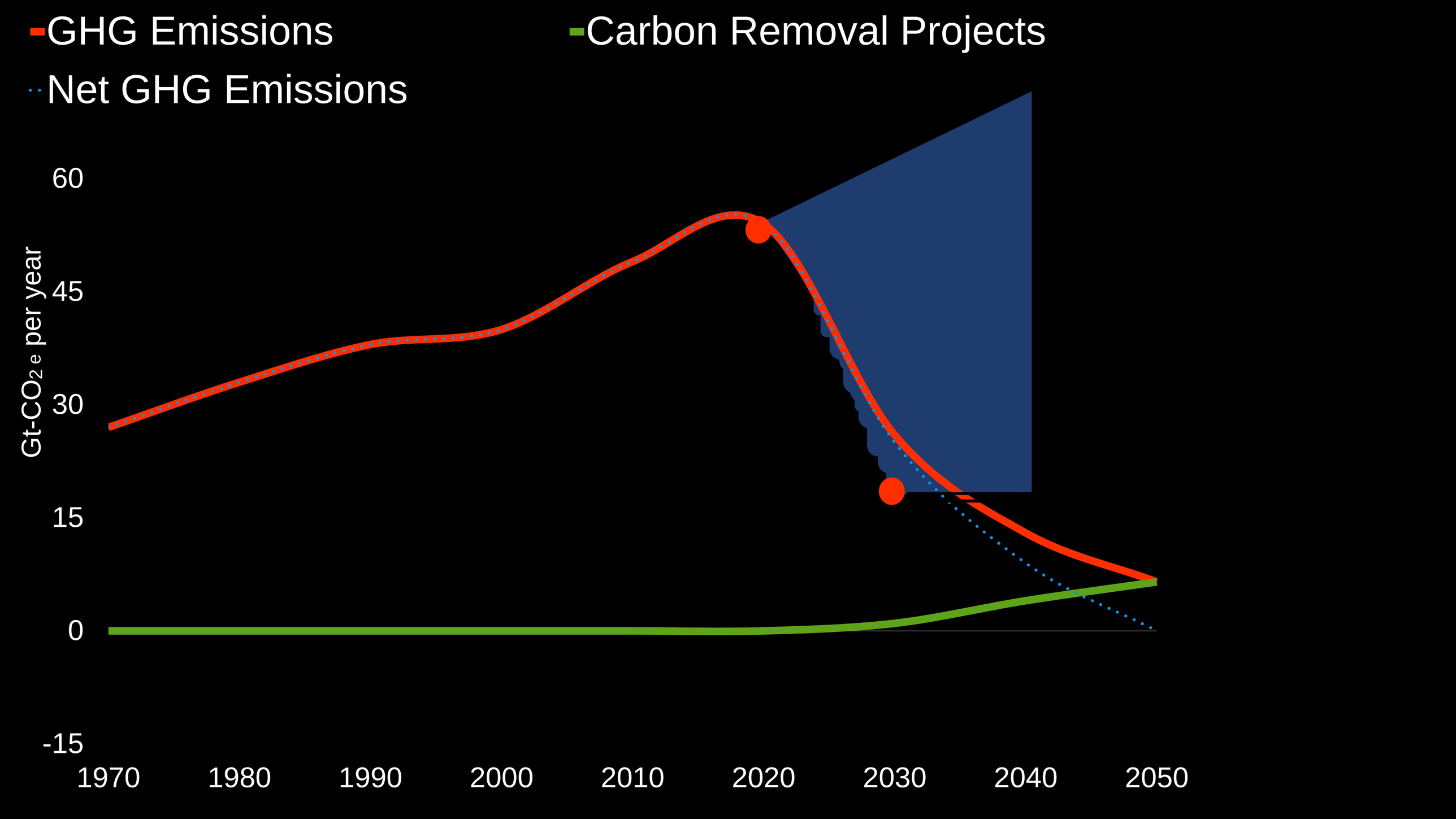
IMAGE: NASA

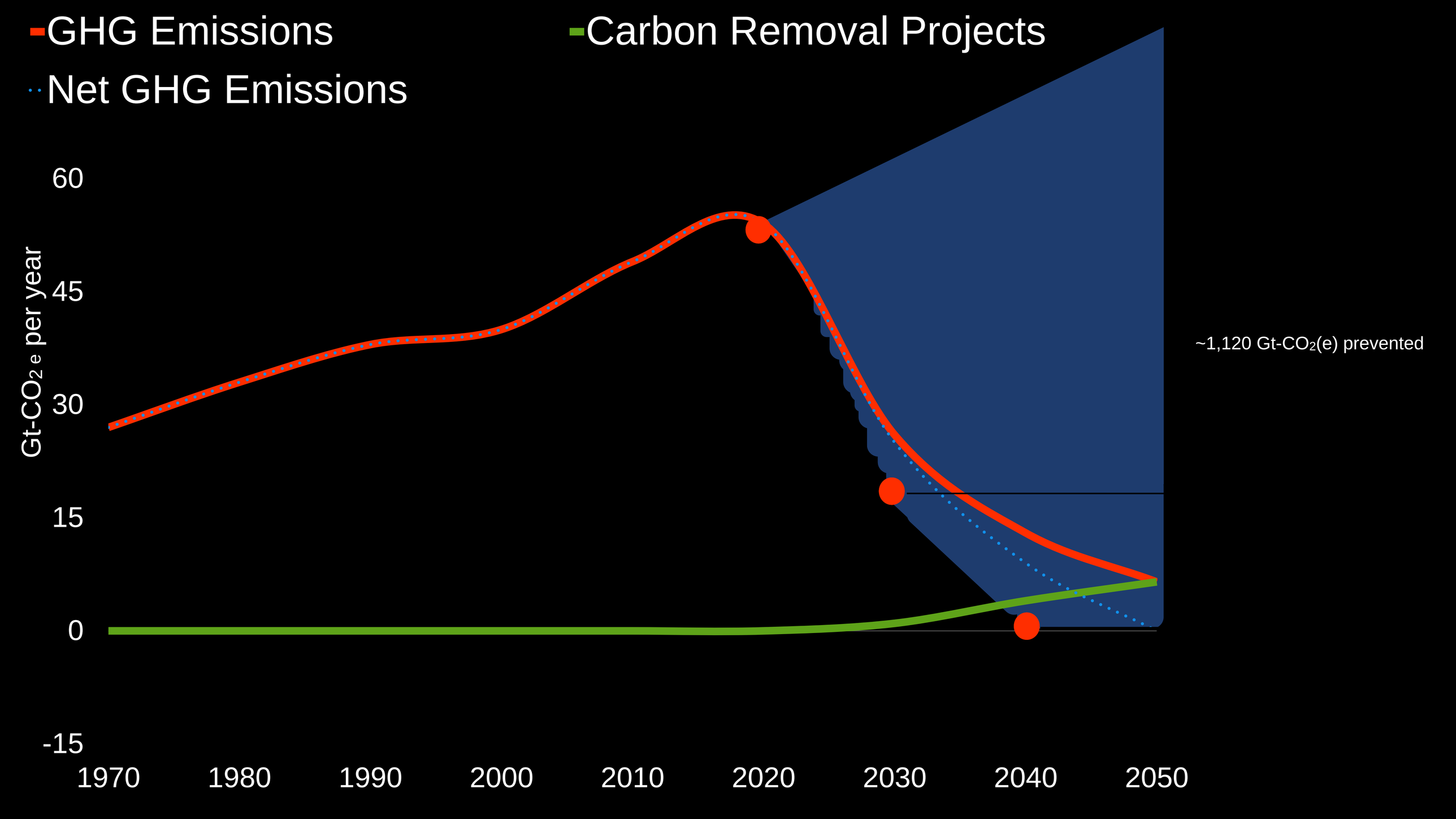
TIME VALUE OF CARBON

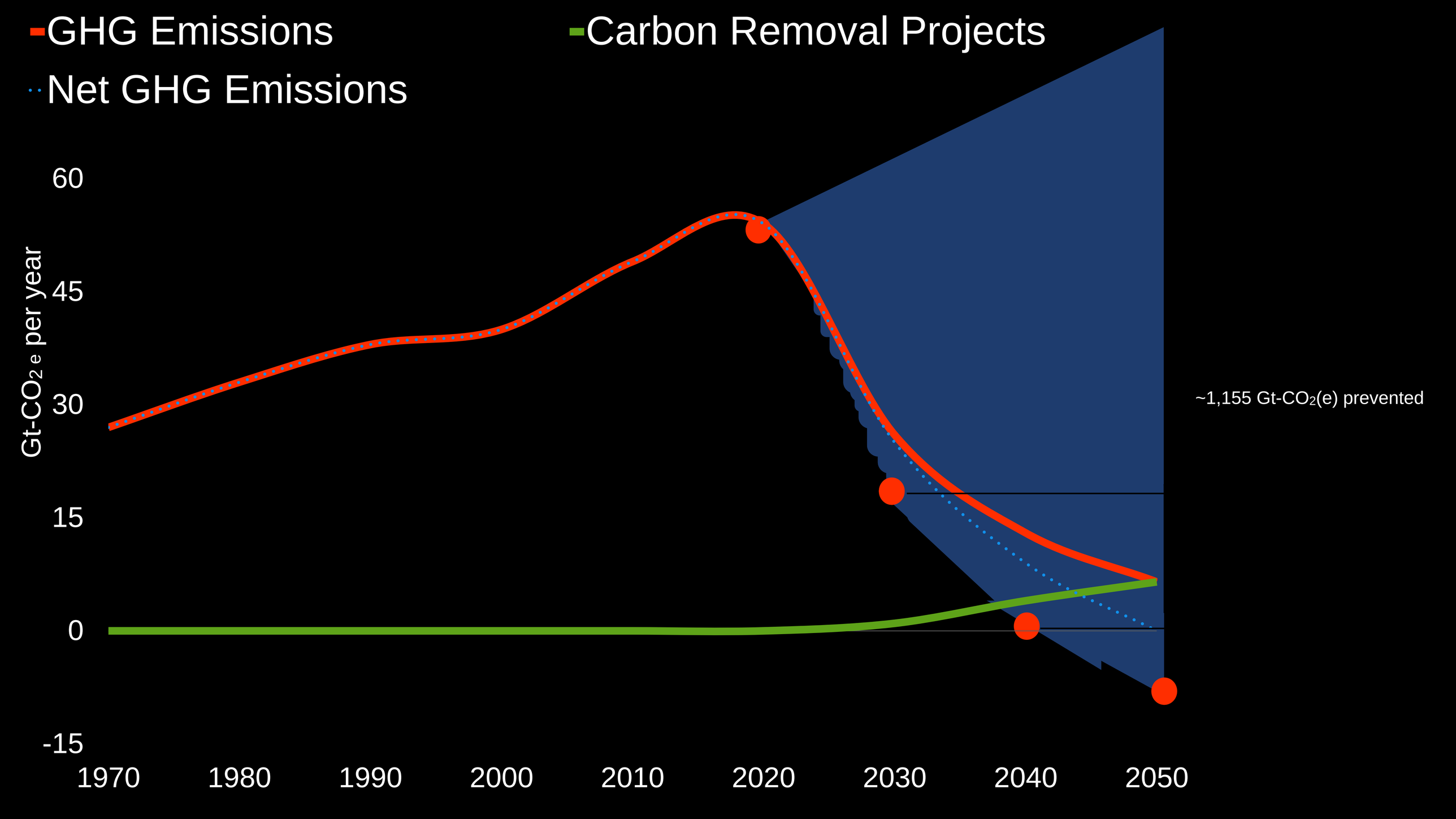
IMAGE: J. FOLEY


GHG Emissions
Carbon Removal Projects
Net GHG Emissions
60
45
30
15
0
-15
Gt-CO2 e per year
1970
1980
1990
2000
2010
2020
2030
2040
2050


GHG Emissions
Carbon Removal Projects
Net GHG Emissions
60
45
30
15
0
-15
Gt-CO2 e per year
1970
1980
1990
2000
2010
2020
2030
2040
2050

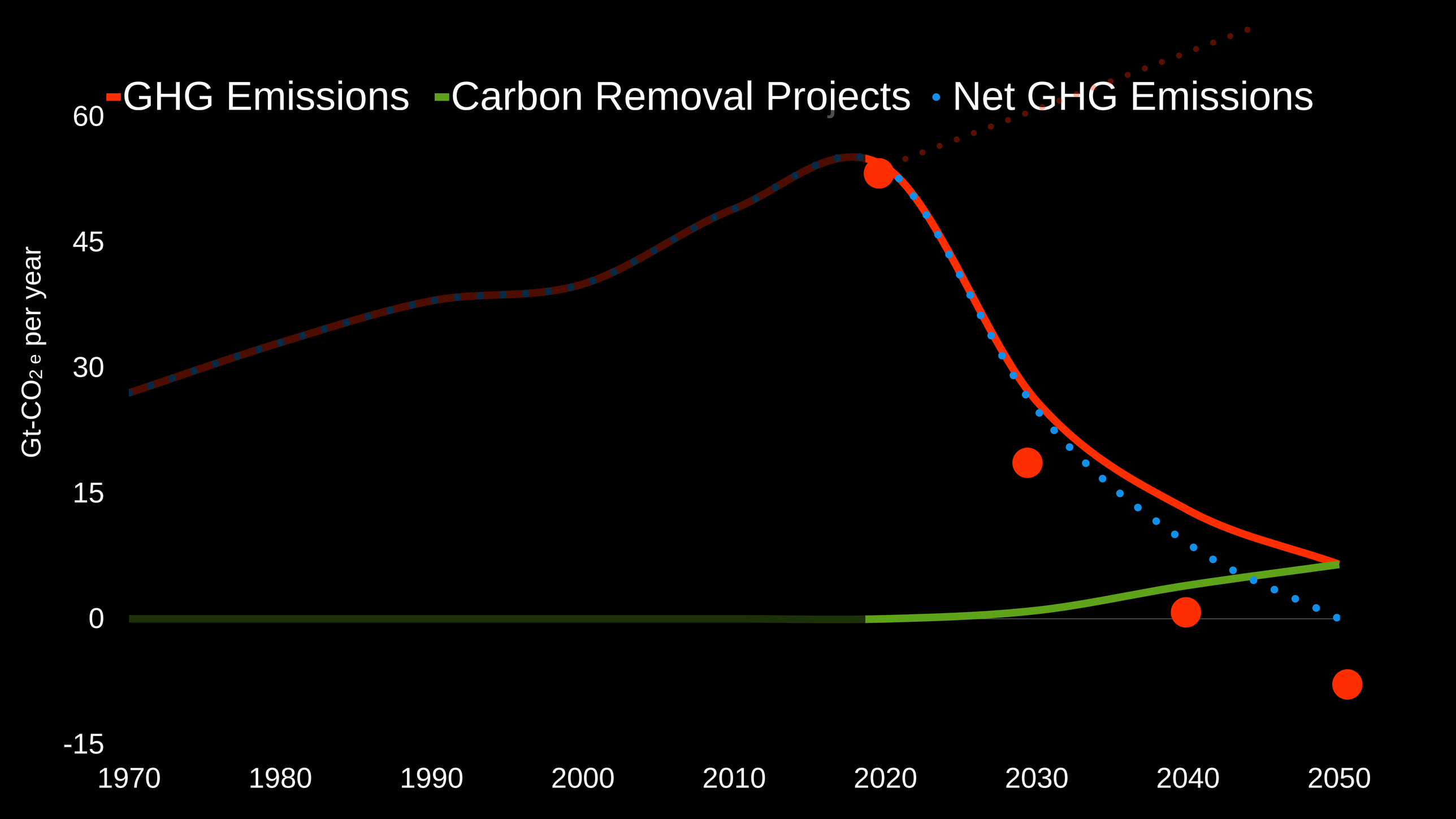

GHG Emissions
Carbon Removal Projects
Net GHG Emissions
60
45
30
15
0
-15
Gt-CO2 e per year
1970
1980
1990
2000
2010
2020
2030
2040
2050

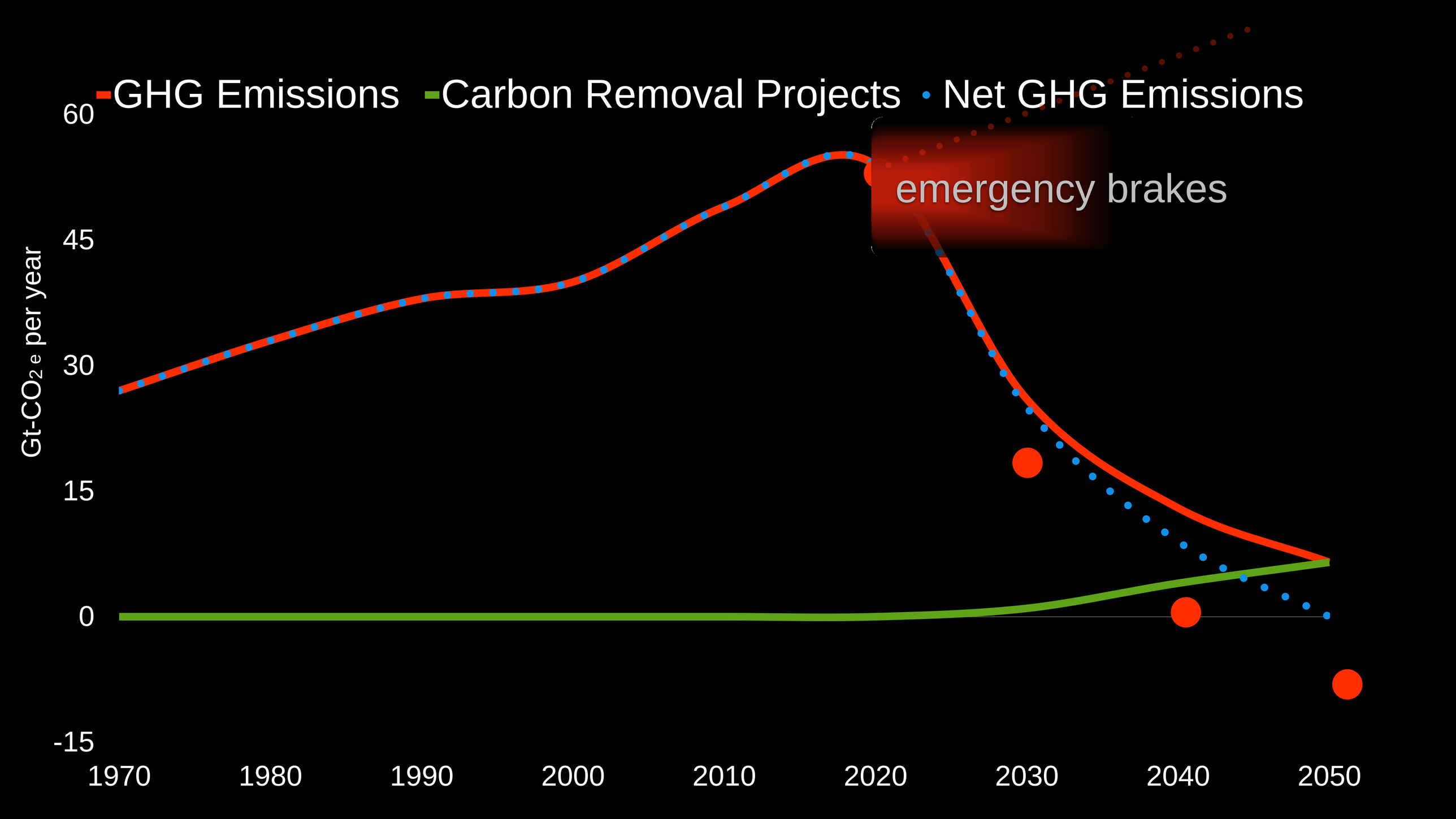

GHG Emissions
Carbon Removal Projects
Net GHG Emissions
60
45
30
15
0
-15
Gt-CO2 e per year
1970
1980
1990
2000
2010
2020
2030
2040
2050
~1,120 Gt-CO2(e) prevented

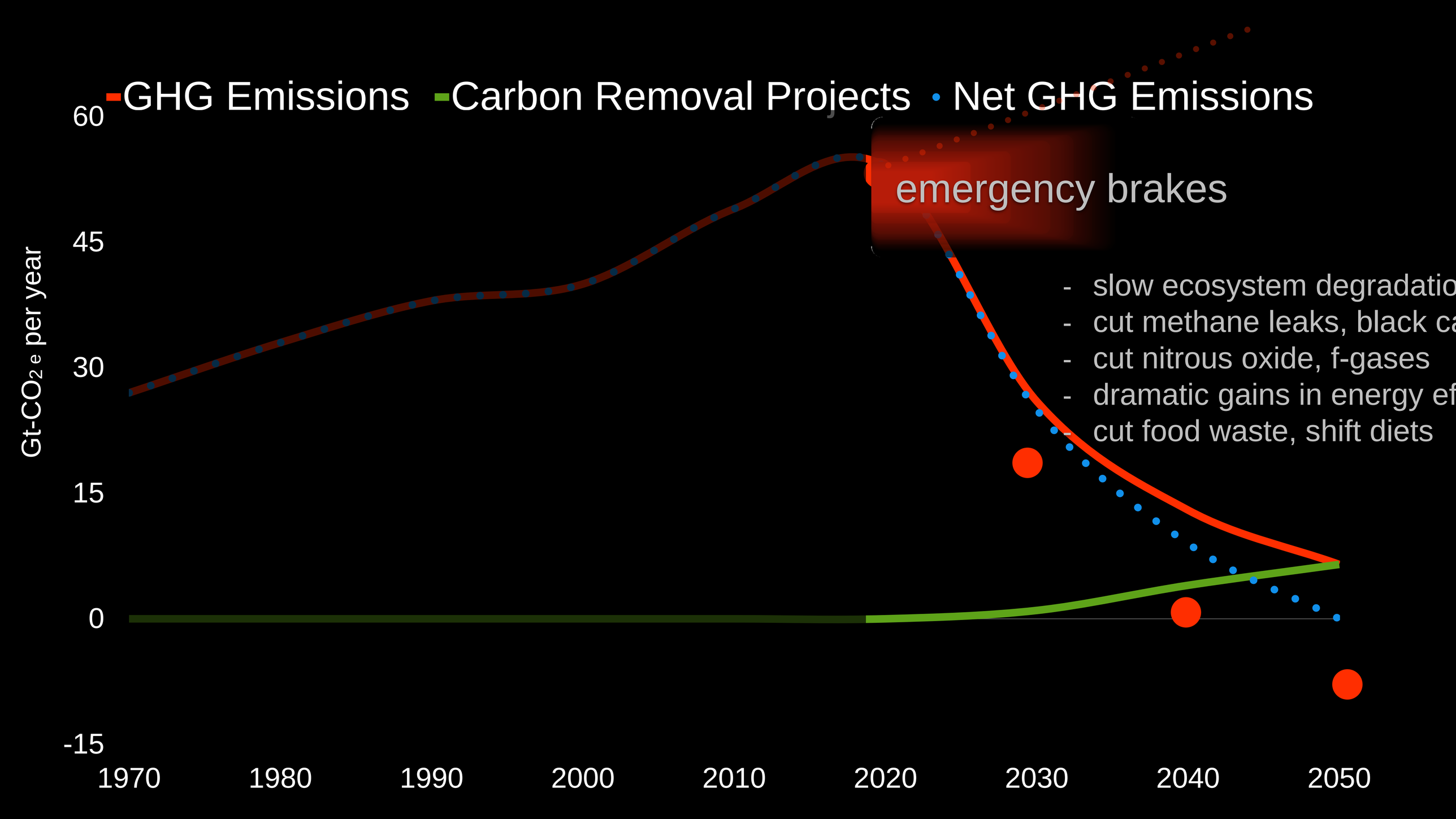

GHG Emissions
Carbon Removal Projects
Net GHG Emissions
60
45
30
15
0
-15
Gt-CO2 e per year
1970
1980
1990
2000
2010
2020
2030
2040
2050
~1,155 Gt-CO2(e) prevented

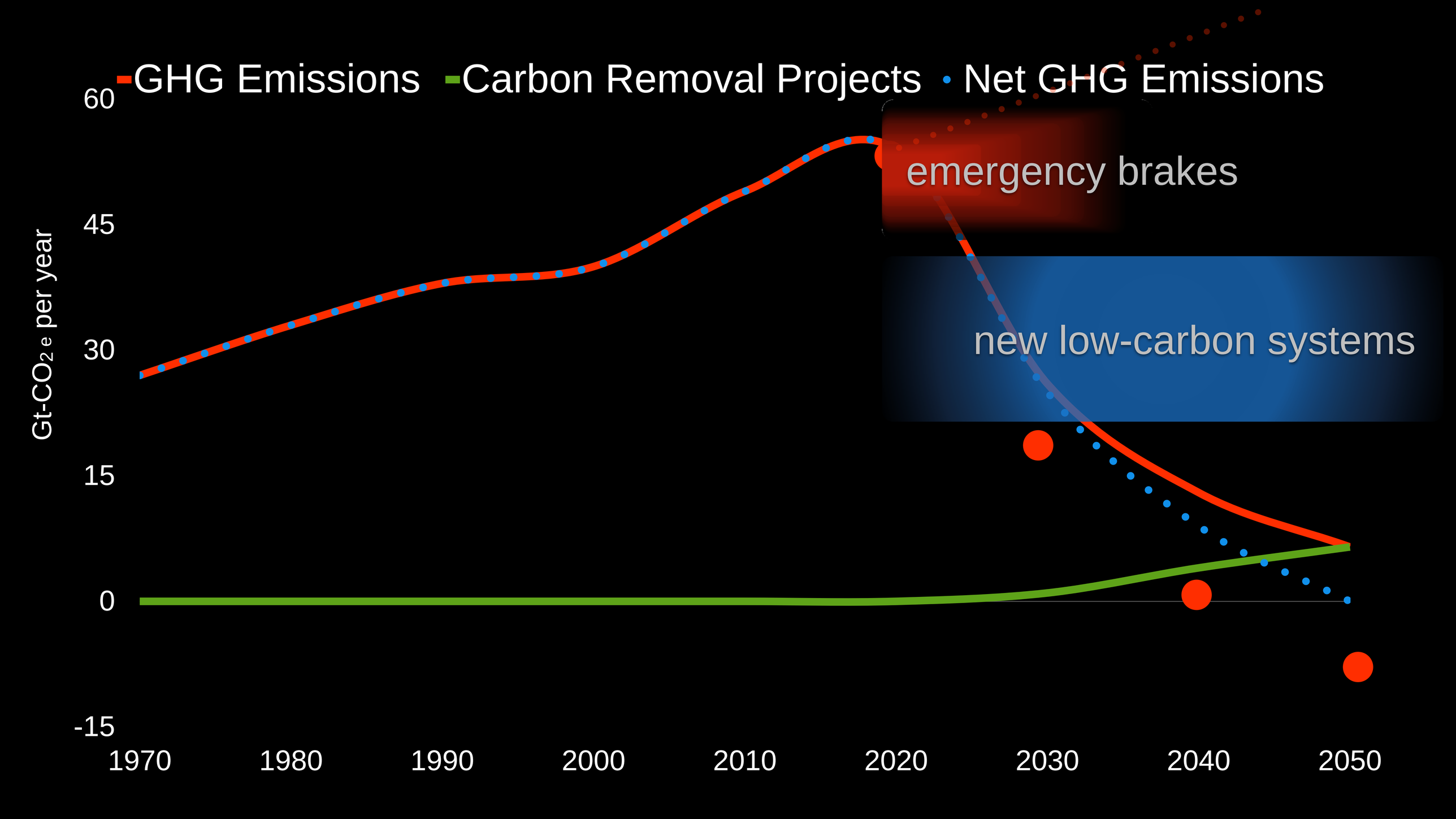
ACTION ACROSS TIME

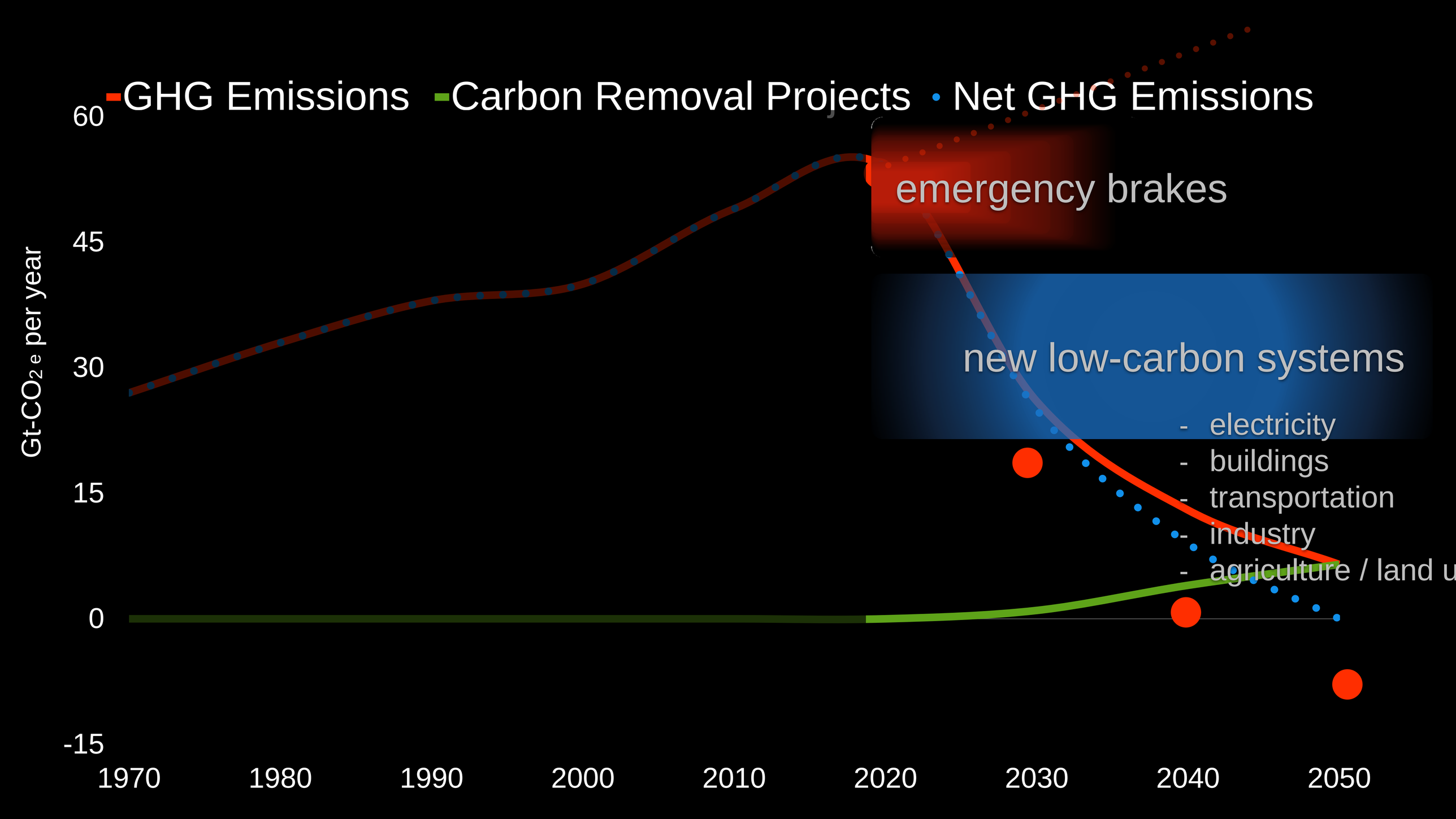
IMAGE: UNSPLASH

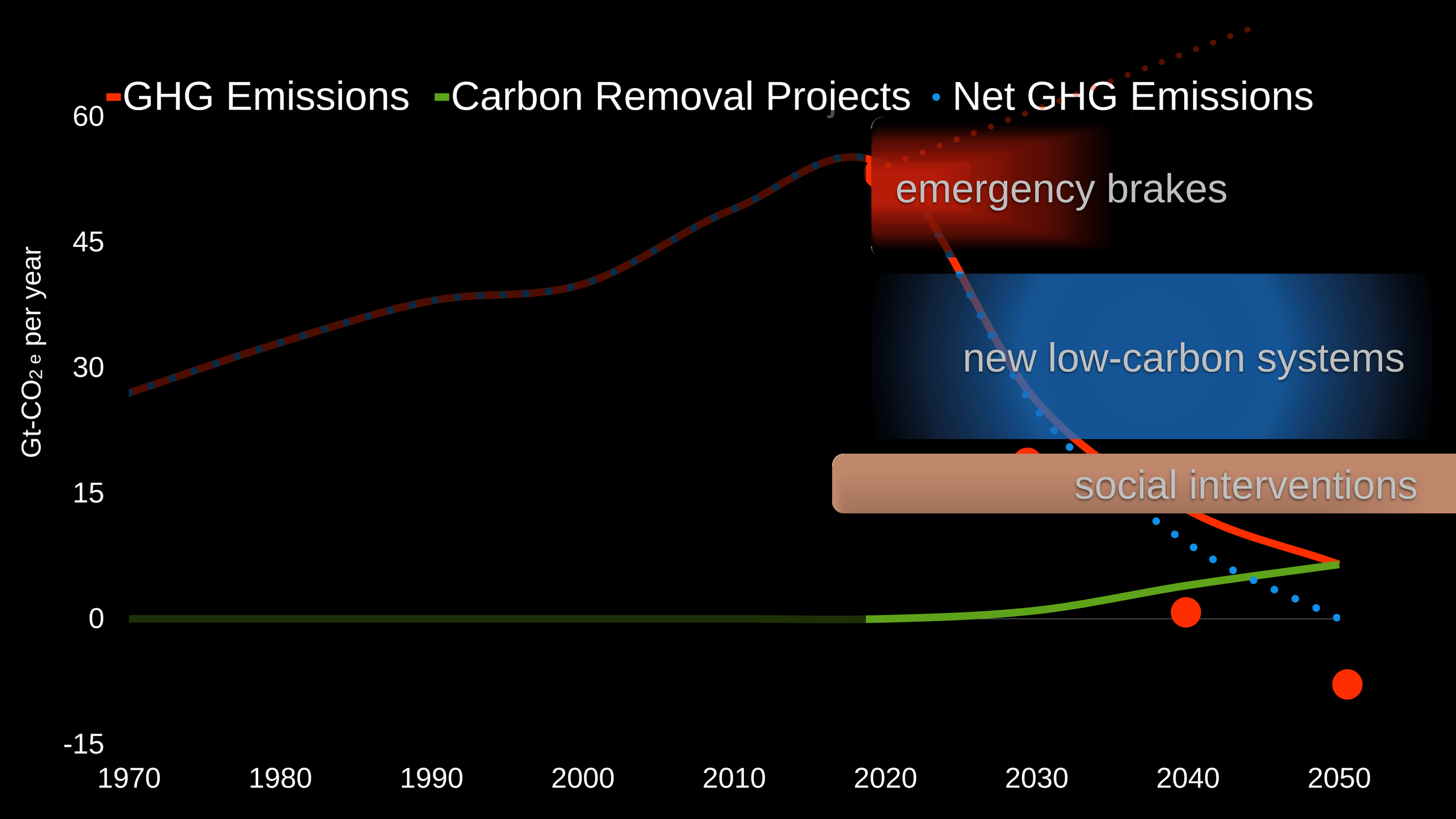

GHG Emissions
Carbon Removal Projects
Net GHG Emissions
60
45
30
15
0
-15
Gt-CO2 e per year
1970
1980
1990
2000
2010
2020
2030
2040
2050

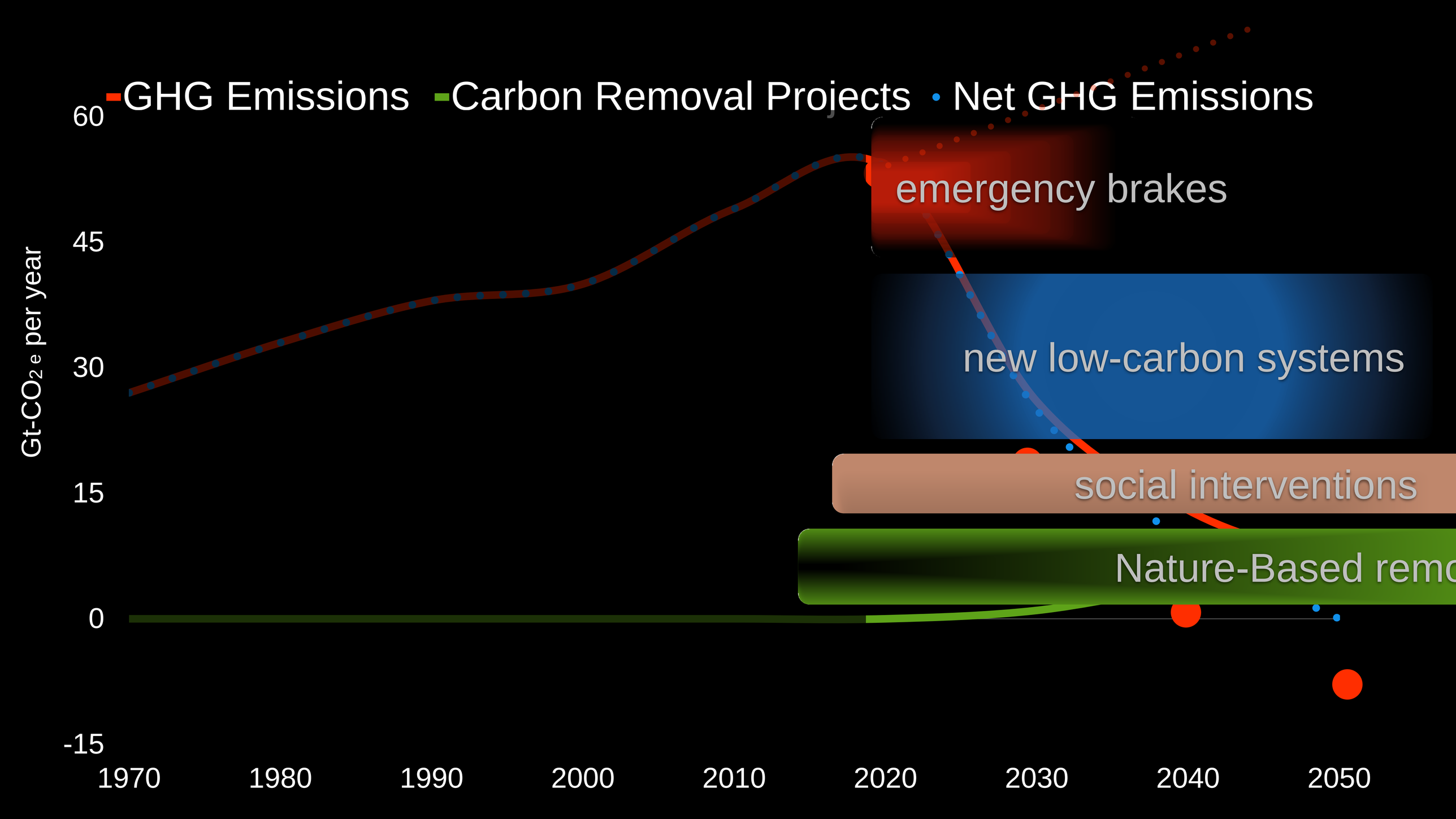

GHG Emissions
Carbon Removal Projects
Net GHG Emissions
emergency brakes
60
45
30
15
0
-15
Gt-CO2 e per year
1970
1980
1990
2000
2010
2020
2030
2040
2050

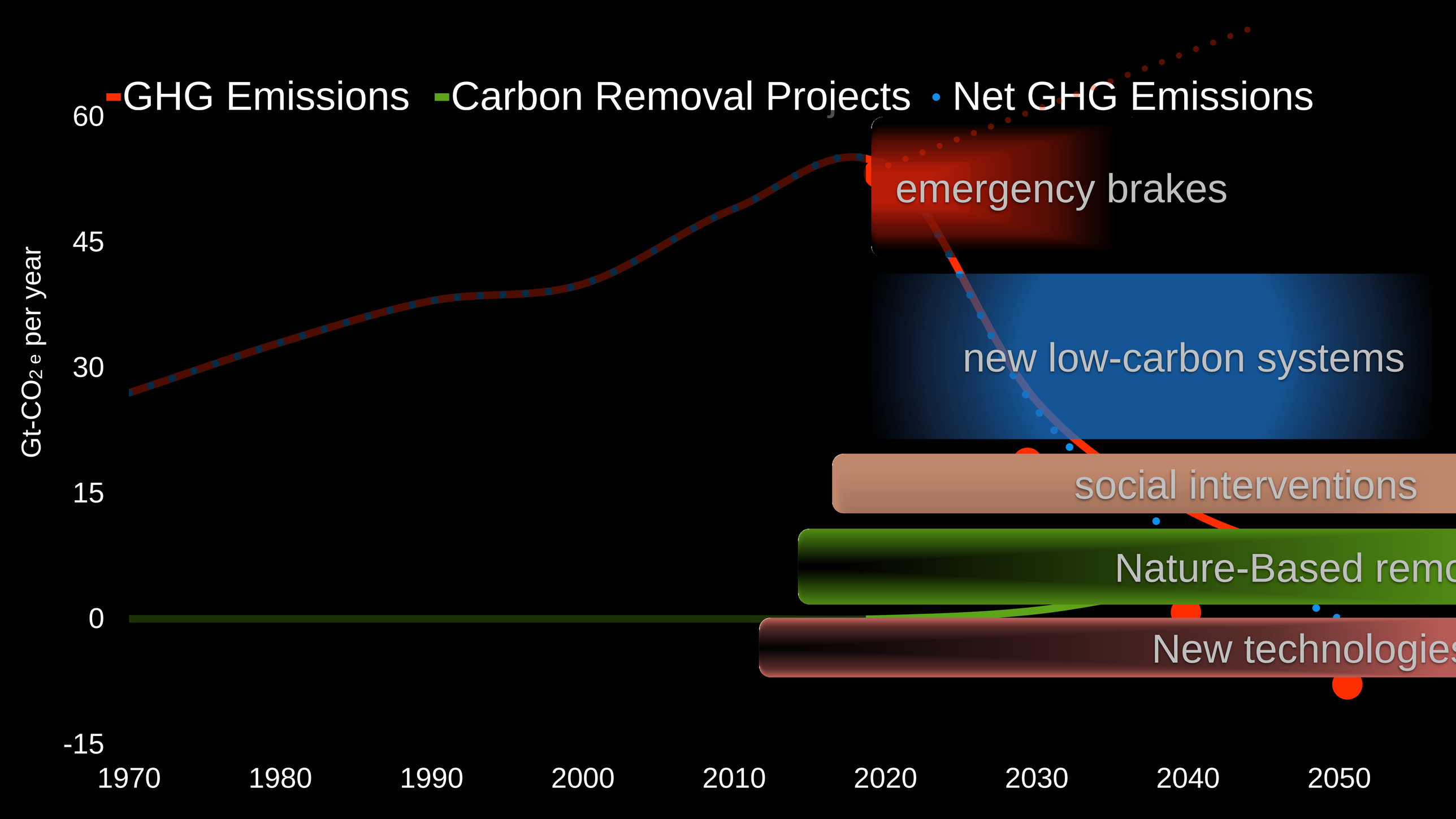

GHG Emissions
Carbon Removal Projects
Net GHG Emissions
emergency brakes
- slow ecosystem degradatio
- cut methane leaks, black ca
- cut nitrous oxide, f-gases
- dramatic gains in energy ef
- cut food waste, shift diets
Gt-CO2 e per year
60
45
30
15
0
-15
1970
1980
1990
2000
2010
2020
2030
2040
2050


GHG Emissions
Carbon Removal Projects
Net GHG Emissions
emergency brakes
new low-carbon systems
Gt-CO2 e per year
60
45
30
15
0
-15
1970
1980
1990
2000
2010
2020
2030
2040
2050


GHG Emissions
Carbon Removal Projects
Net GHG Emissions
60
45
30
15
0
-15
Gt-CO2 e per year
1970
1980
1990
2000
2010
2020
2030
2040
2050
emergency brakes
new low-carbon systems
- electricity
- buildings
- transportation
- industry
- agriculture / land u


GHG Emissions
Carbon Removal Projects
Net GHG Emissions
emergency brakes
new low-carbon systems
social interventions
Gt-CO2 e per year
60
45
30
15
0
-15
1970
1980
1990
2000
2010
2020
2030
2040
2050


GHG Emissions
Carbon Removal Projects
Net GHG Emissions
60
45
30
15
0
-15
Gt-CO2 e per year
1970
1980
1990
2000
2010
2020
2030
2040
2050
emergency brakes
new low-carbon systems
social interventions
Nature-Based remo


GHG Emissions
Carbon Removal Projects
Net GHG Emissions
60
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0
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Gt-CO2 e per year
1970
1980
1990
2000
2010
2020
2030
2040
2050
emergency brakes
new low-carbon systems
social interventions
Nature-Based remo
New technologies

“WIN-WIN” SOLUTIONS FOR NATURE AND PEOPLE

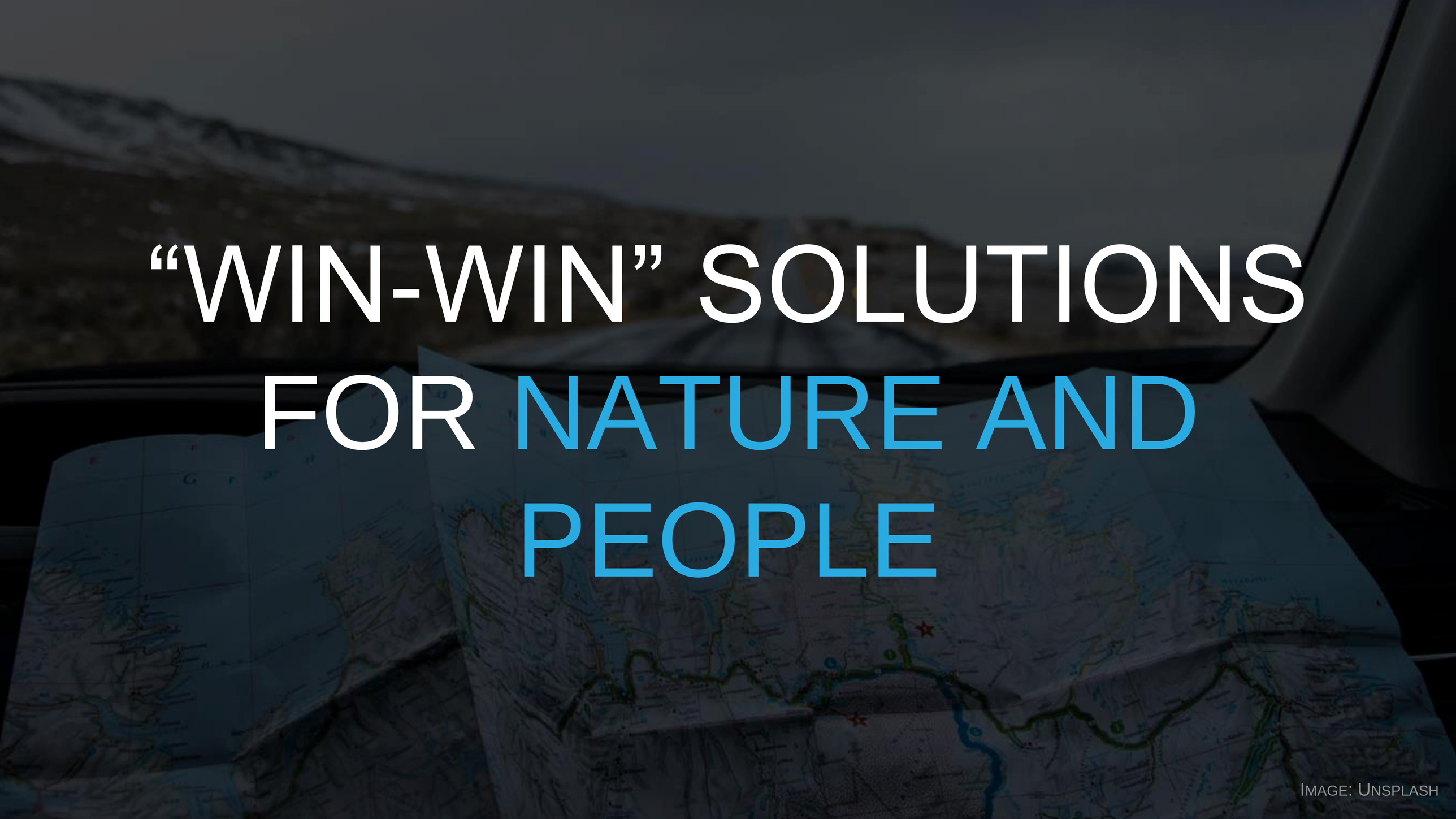
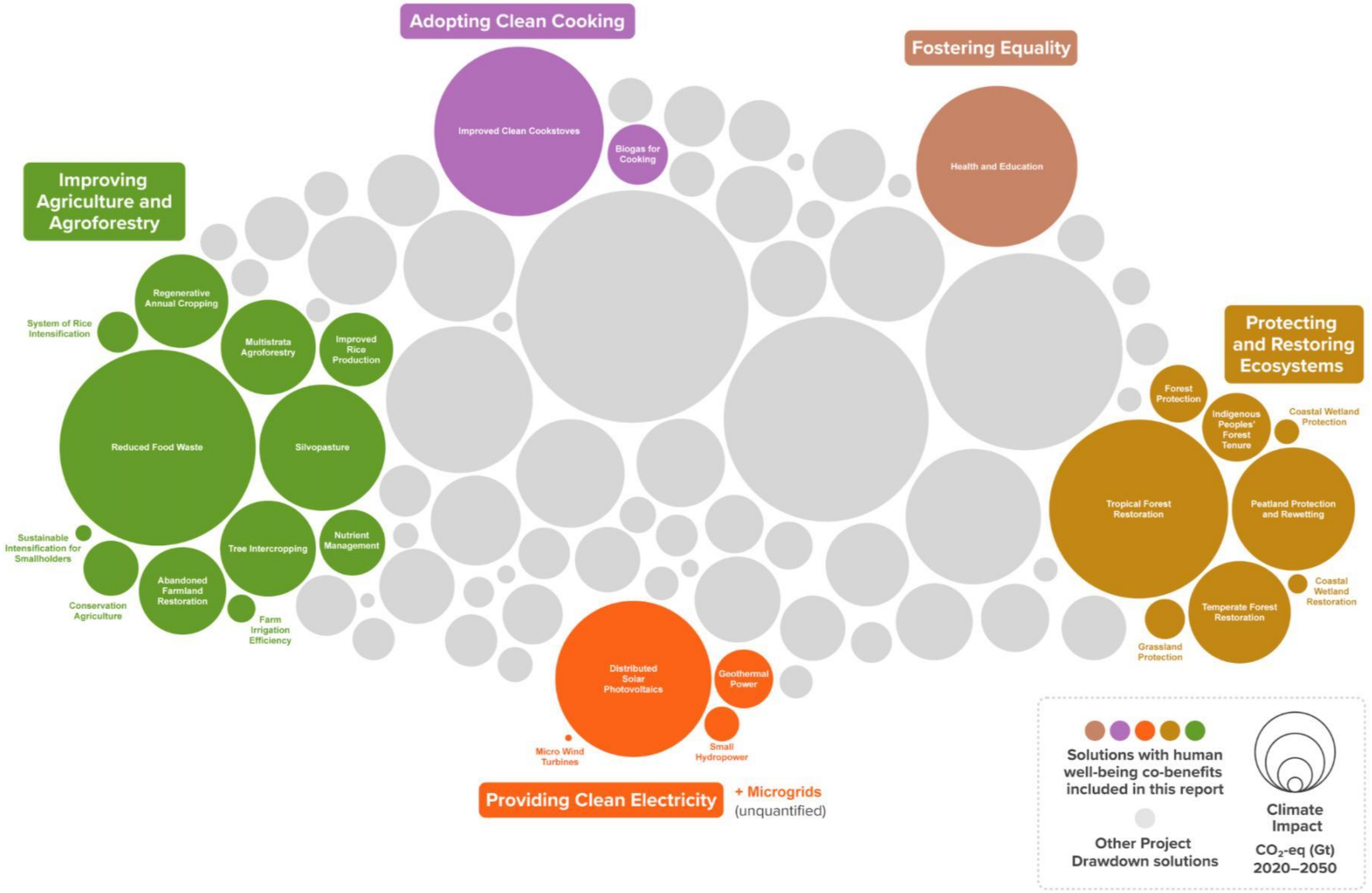
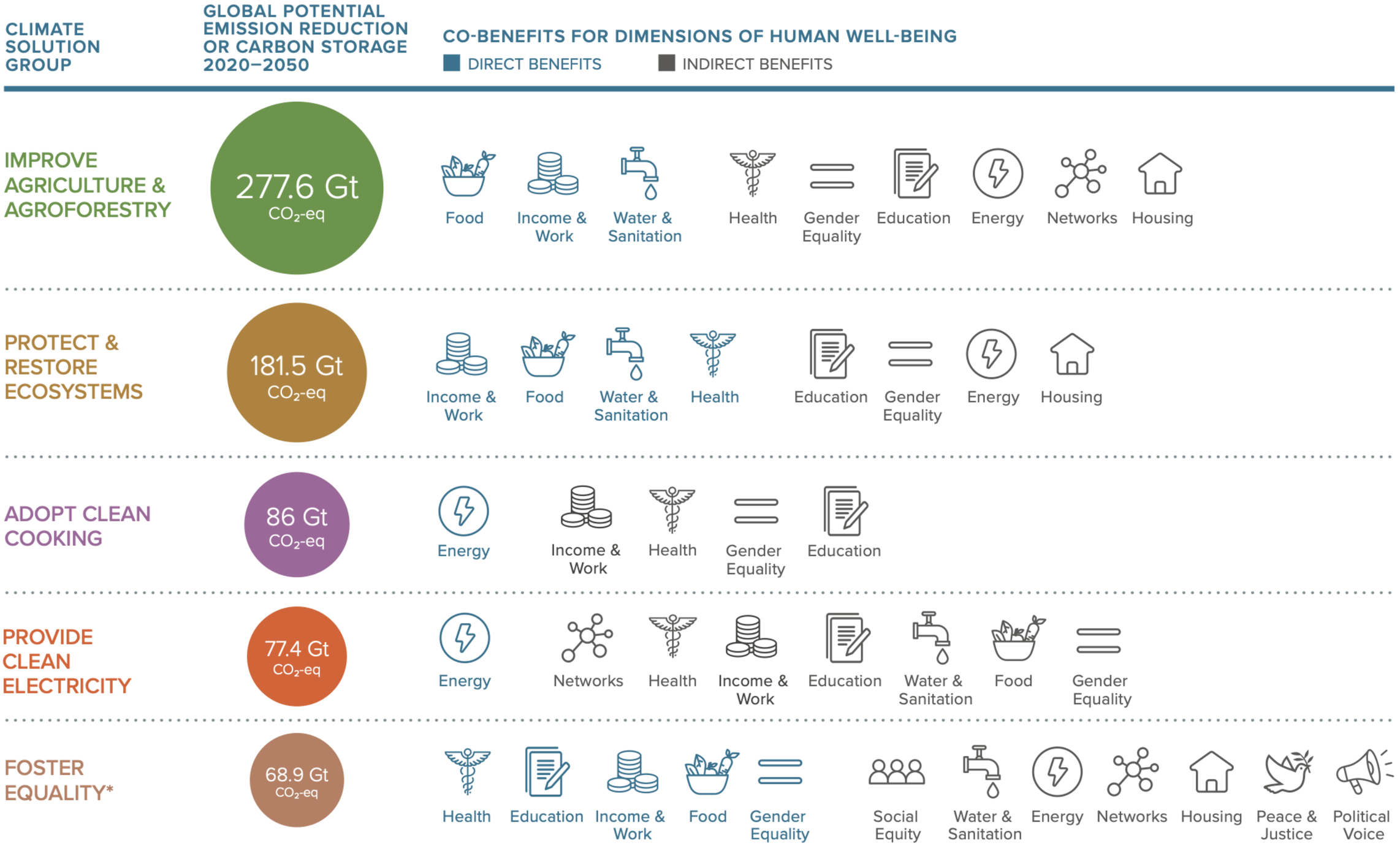


IMAGE: UNSPLASH


Adopting Clean Cooking
Improved Clean Cookstoves
Biogas for Cooking
Fostering Equality
Health and Education
Improving Agriculture and Agroforestry
Regenerative Annual Cropping
System of Rice Intensification
Multistrata Agroforestry
Improved Rice Production
Reduced Food Waste
Silvopasture
Sustainable Intensification for Smallholders
Tree Intercropping
Nutrient Management
Conservation Agriculture
Abandoned Farmland Restoration
Farm Irrigation Efficiency
Protecting and Restoring Ecosystems
Forest Protection
Indigenous Peoples' Forest Tenure
Coastal Wetland Protection
Tropical Forest Restoration
Peatland Protection and Rewetting
Coastal Wetland Restoration
Temperate Forest Restoration
Grassland Protection
Distributed Solar Photovoltaics
Geothermal Power
Micro Wind Turbines
Small Hydropower
Providing Clean Electricity
+ Microgrids
(unquantified)
Solutions with human well-being co-benefits included in this report
Other Project Drawdown solutions
Climate Impact
CO_2-eq (Gt)
2020–2050


CLIMATE SOLUTION GROUP
GLOBAL POTENTIAL EMISSION REDUCTION OR CARBON STORAGE 2020–2050
CO-BENEFITS FOR DIMENSIONS OF HUMAN WELL-BEING
DIRECT BENEFITS
INDIRECT BENEFITS
IMPROVE AGRICULTURE & AGROFORESTRY
277.6 Gt CO2-eq
Food
Income & Work
Water & Sanitation
Health
Gender Equality
Education
Energy
Networks
Housing
PROTECT & RESTORE ECOSYSTEMS
181.5 Gt CO2-eq
Income & Work
Food
Water & Sanitation
Health
Education
Gender Equality
Energy
Housing
ADOPT CLEAN COOKING
86 Gt CO2-eq
Energy
Income & Work
Health
Gender Equality
Education
PROVIDE CLEAN ELECTRICITY
77.4 Gt CO2-eq
Energy
Networks
Health
Income & Work
Education
Water & Sanitation
Food
Gender Equality
FOSTER EQUALITY*
68.9 Gt CO2-eq
Health
Education
Income & Work
Food
Gender Equality
Social Equity
Water & Sanitation
Energy
Networks
Housing
Peace & Justice
Political Voice

DRAWDOWN GA

We're bringing climate solutions home.

Inspired by Project Drawdown®, we are building a movement in Georgia to accelerate progress toward net zero greenhouse gas emissions.

What's Possible by 2030

If we get this right, we can cut Georgia's carbon impact by at least one-third in just 10 years, from 125 megatons (Mt) of carbon dioxide equivalent (CO_2e) to 79 Mt. This is based on emissions reductions in five, high-impact areas:

Eco3

About Us | What We're Doing | How We Can Help You | Contact Us

Duluth Citizens' Climate Action Plan

Policymaking grounded in science


DRAWDOWN.ORG
@PROJECTDRAWDOWN