

August 2024

The Dual Challenge

Confronting Energy & Climate





DISCUSSION AGENDA

01

**An Introduction
to OpenMinds**

02

**Defining the
“Dual Challenge”**

03

**Confronting the
“Dual Challenge”**

04

**OpenMinds Strategy
and Path Forward**

OpenMinds Identity



OUR MISSION

Less emissions. More energy.

Accelerate progress against the Dual Challenge by 203X

- 100+ volunteer experts
- 501(c)(3)
- Disciplined non-partisan selection process
- 360° systems engineering approach

WHAT MAKES US UNIQUE



Energy AND climate



Cross-functional expert team



Detailed solutions framework

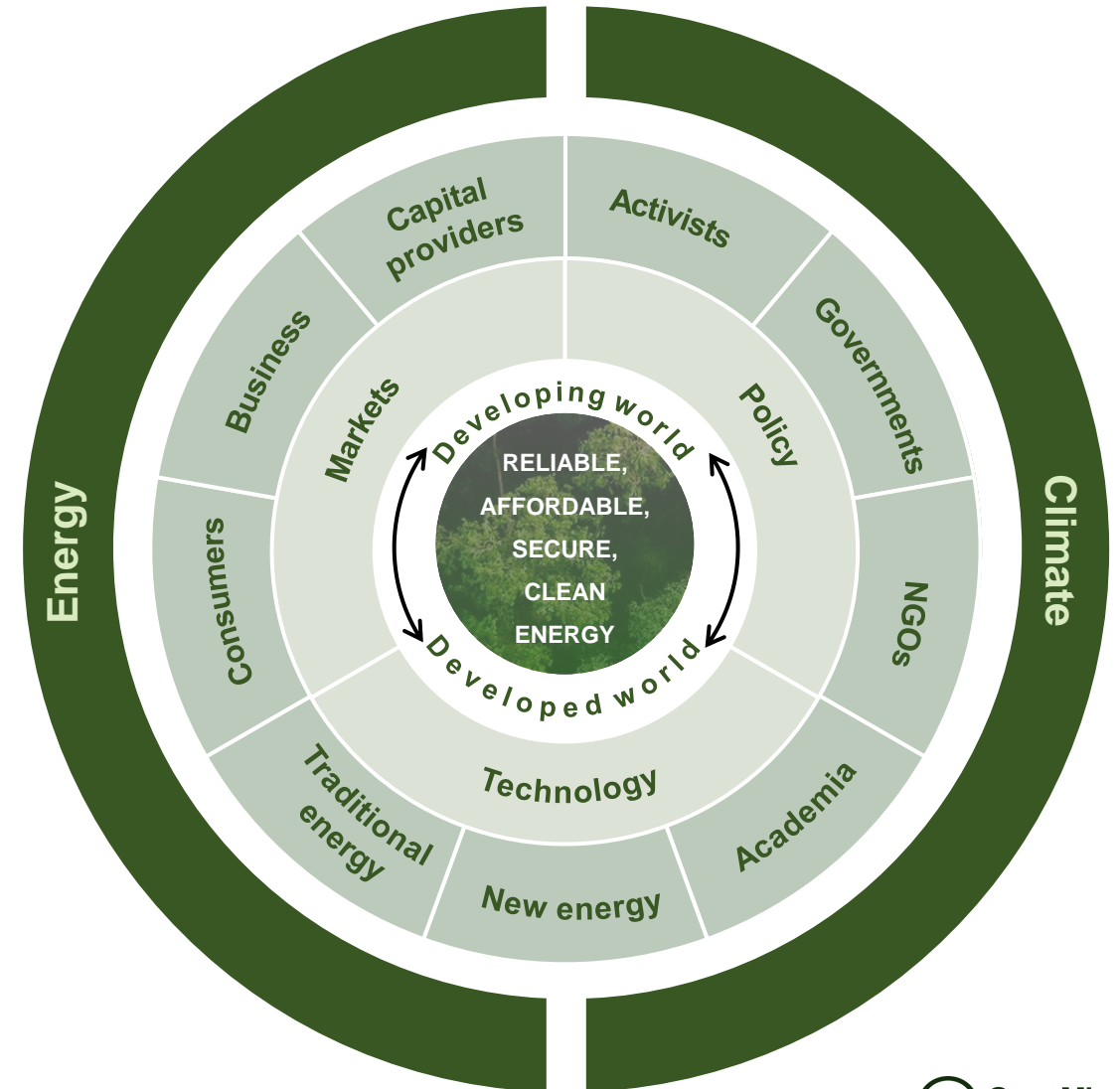


Impact progress by 203X

OpenMinds' Solution Approach



We believe that addressing the Dual Challenge requires us to work together in a **non-partisan** manner across **diverse** fields, industries, and geographies



The OpenMinds Team



/ AS OF JULY 26, 2024

Industry	Role and company
Ms. Bridgitt Arnold	VP of Communications, Google
Mr. John Arnold	Founder & CEO, Arnold Ventures
Mr. John Berger	Founder & CEO, Sunnova Energy International
Mr. Scott Brown	Founder and Chairman, New Energy Capital
Dr. Barbara J. Burger	Corporate Graduate, Energy Director, Advisor and Innovator
Mr. Adrian Corless	CEO, CarbonCapture
Mr. Ted Craver	Former Chair, President, & CEO, Edison International
Mr. Michael DeBock	Vice President of Origination, NextEra Energy
Ms. Jayshree Desai	CFO, Quanta Services, Inc.
Mr. Bob Flexon	Chairman, PG&E
Mr. Jon Goldberg	Founder and CEO, Carbon Direct
Mr. Thad Hill	CEO, Calpine
Ms. Vicki Hollub	President & CEO, Oxy
Ms. Phoebe Ho-Stone	CCS Development Planner, ExxonMobil Low Carbon Solutions
Mr. Aaron Jagdfeld	CEO, Generac Power Systems
Mr. Mateo Jamarillo	Co-Founder & CEO, Form Energy Inc
Mr. Sanjeev Krishnan	Chief Investment Officer and Senior Managing Director, S2G
Mr. Tim Latimer	Co-Founder & CEO, Fervo Energy
Mr. Steve Lockard	Chairman, TPI Composites
Mr. Thomas McAndrew	Founder & CEO, Enchanted Rock
Dr. Shannon Miller	Founder & CEO, Main Spring Energy
Mr. Stan Miranda	Founder & Chairman, Partners Capital
Mr. Nate Nickerson	Comms and Public Affairs Partner, DCVC
Ms. Lara Poloni	President, AECOM
Ms. Rachael Porter	CMO, Oxy
Mr. Miguel Prado	CEO, energyRE
Ms. Heather Redman	Co-Founder & Managing Partner, Flying Fish Partners
Ms. Starlee Sykes	CEO, Archaea Energy at BP
Mr. Dan Tishman	Chairman & Principal, Tishman Realty & Construction
Mr. Ignacio (Nacho) Torras	President & CEO, Tricon
Ms. Jessica Uhl	President, GE Vernova
Mr. Al Vickers	COO, Grid United
Mr. Andy Waite	Managing Partner - SCF Partners
Mr. Daniel Weiss	Co-Founder and Managing Partner, Angeleno Group
Mr. Jason Wells	President & CEO, CenterPoint Energy
Mr. Darryl Willis	Corporate VP of Energy & Resources Industry, Microsoft
Dr. Mike Witt	VP & Chief Sustainability Officer, Northrop Grumman

Academia	Role and Company
Dr. Steven Barrett	Regius Professor of Engineering, Cambridge University
Dr. Naomi Boness	Managing Director, Stanford Natural Gas Initiative and Stanford Hydrogen Initiative
Dr. Neil Fromer	Executive Director of Programs, Resnick Sustainability Institute
Mr. Sam Hall	MBA Candidate, MIT Sloan School of Management
Mr. Britt Harris	Former CEO & CIO, UTIMCO
Mr. Ira Joseph	Global Fellow CGEP, Columbia University
Ms. Daniela Marin	PhD Candidate, Stanford University
Dr. Kenneth Medlock III	Senior Director, Center for Energy Studies at Rice University's Baker Institute
Dr. Dava Newman	Director, MIT Media Lab
Dr. Jonas Peters	Director, Resnick Sustainability Institute
Dr. Minoo Rathnasabapathy	Research Lead, Future Worlds, MIT Media Lab
Dr. Peter Schlosser	Vice President - Global Futures Initiative Vice Provost - Arizona State University
Mr. Ben Soltoff	Ecosystem-BUILDER/Entrepreneur in Residence, MIT's Martin Trust for MIT Entrepreneurship
Dr. Scott Tinker	Director, Bureau of Economic Geology at the University of Texas
Dr. Maya Tolstoy	Dean of the College of the Environment, University of Washington
Policy / Influence	Role and Company
Mr. Jason Bordoff	Professor & Founding Director, Center on Global Energy Policy, Columbia University
Mr. David Crane	Under Secretary for infrastructure, United States Department of Energy
Dr. Reginald DesRoches	President, Rice University
Mr. Hal Harvey	Founder, Energy Innovation
Mr. Mac Heller	Documentary Film Producer
Mr. John Hickenlooper	Former Governor and Current US Senator, State of Colorado
Mr. Joe Kennedy III	President, Citizens Energy
Mr. Robert Johnston	Executive Director, Columbia Center on Global Energy Policy
Ms. Janet Napolitano	Former President, University of California System

Policy / Influence	Role and Company
Mr. Rob Shepardson	Co-Founder, SS+K
Mr. Lenny Stern	Co-Founder, SS+K
NGO	Role and Company
Dr. Doug Arent	Executive Director, Strategic Public Private Partnerships, NREL
Mr. Armond Cohen	Executive Director, Clean Air Task Force
Ms. Karlynn Cory	Group Manager - Community Energy Transitions, NREL
Ms. Myrtle Dawes	CEO, Net Zero Technology Centre
Mr. Jason Grumet	CEO, American Clean Power Association (ACP)
Ms. Jennifer Layke	Global Director – Energy, World Resources Institute
Mr. Tom Light	President & CEO, Aviation Climate Taskforce
Dr. Lara Pierpoint	Director of Early Climate Infrastructure, Prime Coalition
Mr. David Pruner	Executive Director, TEX-E
Mr. Larry Selzer	President & CEO, The Conservation Fund
Dr. Cyrus Wadia	CEO, Activate
Mr. Brady Walkinshaw	CEO, Earth Alliance
Mr. Kurt Waltzer	Former CEO, Clean Air Task Force

Hosts	Role and Company
Mr. David Baldwin	OpenMinds Co-Founder Partner, SCF Partners
Mr. Jeff Katz	Founding Chairman & CEO, Orbitz / Journera
Ms. Maire Baldwin	Board Director, Permian Resources
Ms. Mara Abbott	Chief of Staff, OpenMinds
Mr. James Baird	Associate Partner, Bain & Company
Mr. Jason Corzine	President & CEO, Telluride Foundation
Mr. Julian Critchlow	Advisory Partner, Bain & Company
Mr. Grant Dougan	Partner, Bain & Company
Ms. Emily Emmett	Partner, Bain & Company
Mr. Peter Guarraia	Partner, Bain & Company
Mr. Preston Henske	Partner, Bain & Company
Ms. Cate Hight	Partner, Bain & Company
Mr. Fred Kittler	Co-Founder and Managing Director, Firelake Capital Mgmt.
Ms. Dianne Ledingham	Advisory Partner, Bain & Company
Mr. Paul Major	Board Member & Manager, Paradox Community Trust
Mr. Joseph Scalise	Partner, Head of Global Energy & Natural Resources Practice, Bain & Company
Mr. Crosby Scofield	Partner, Vinson and Elkins
Ms. Erika Serow	Partner and CMO, Bain & Company
Mr. Michael Short	Partner, Bain & Company

... and many more

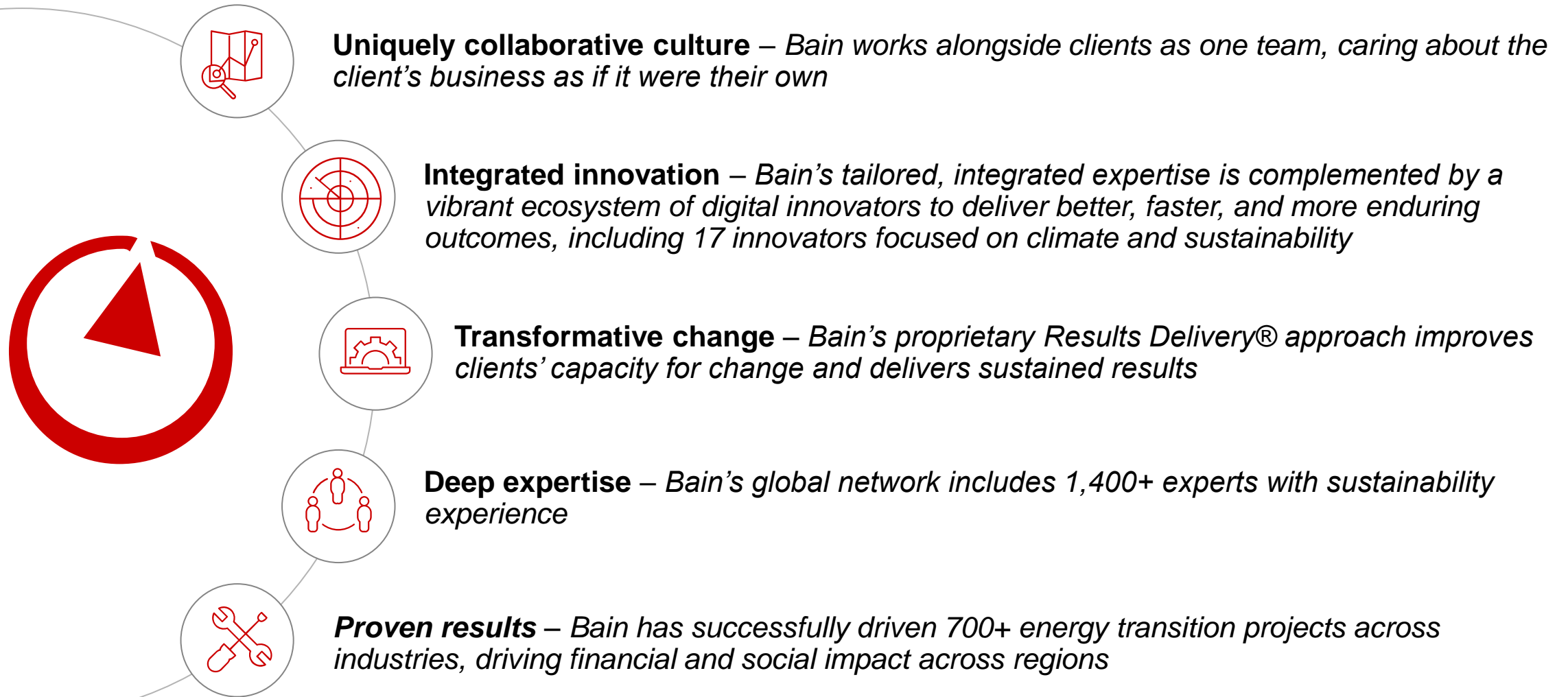


Partnership with Complementary Strengths

OpenMinds has a diverse, non-partisan network of climate & energy leaders and a focus on impact by 203X...

...Bain supplements with global scale, deep industry expertise, and advanced analytics capabilities

Overview of Bain's Energy Transition Capabilities





DISCUSSION AGENDA

01

An Introduction
to OpenMinds

02

Defining the
“Dual Challenge”

03

Confronting the
“Dual Challenge”

04

OpenMinds Strategy
and Path Forward

The Dual Challenge: An Overview

THE DUAL CHALLENGE



Energy is fundamental to human wellbeing and flourishing...



... but our primary energy sources, fossil fuels, are also the principal source of human greenhouse gas emissions, which **cause global warming**



The tension between energy supply and climate change presents the **Dual Challenge**



This is a **global** problem of enormous **scale and complexity**, and addressing it will require us to balance **competing priorities**

Energy Drives Human Well Being and Longevity

THE DUAL CHALLENGE

Global energy consumption

PETAWATT-HOURS

200

150

100

50

1800

1850

1900

1950

2000

2019

~8X

Approximate increase in the world population

~3X

Approximate increase in average life expectancy

Global GDP

Global energy consumption

Global GDP

TRILLIONS OF CONSTANT 2011 INTERNATIONAL USD, PPP ADJUSTED

150

100

50

World population

1.0B

7.8B

Average life expectancy

29yrs.

73yrs.

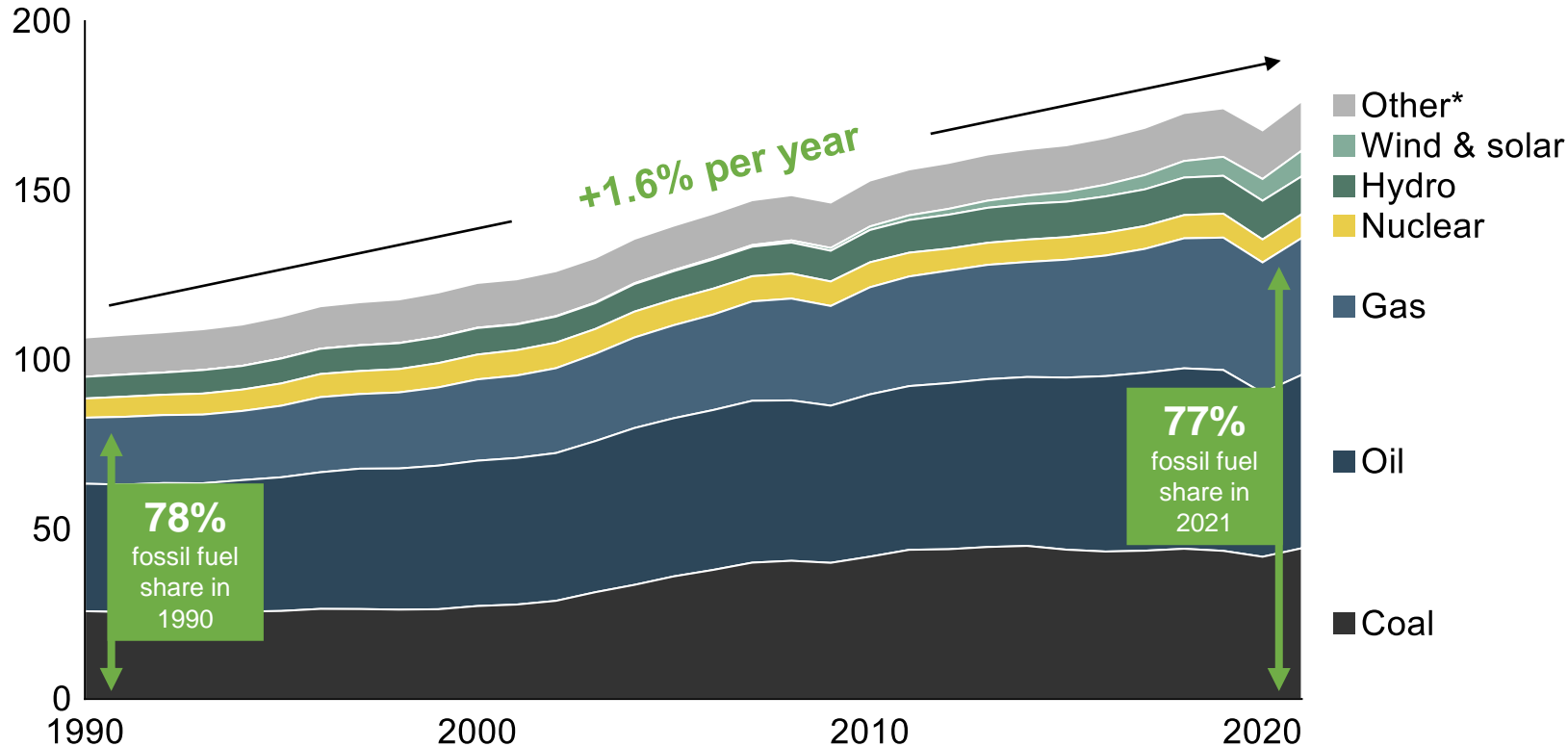
Note: GDP is adjusted for purchasing power parity. Sources: Bain & Company analysis; BP Statistical Review of World Energy 2021; Vaclav Smil, *Energy Transitions: Global and National Perspectives*, 2017; Maddison Project Database, version 2020. Bolt, Jutta and Jan Luiten van Zanden (2020), "Maddison style estimates of the evolution of the world economy. A new 2020 update"; World Bank; Our World in Data

Growth in Energy Consumption

THE DUAL CHALLENGE

Global primary energy consumption by source

(measured in petawatt-hours)

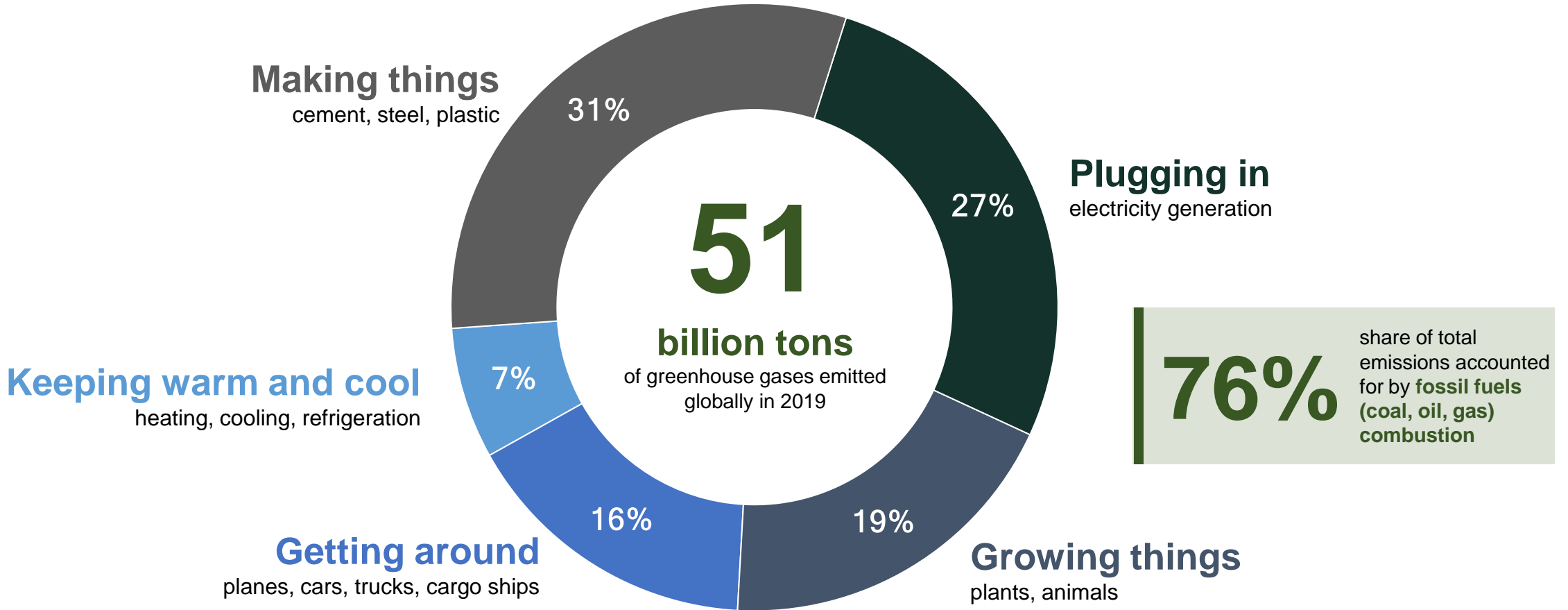


	<u>% of total</u>		<u>Share of 1990-2021 demand growth</u>
	<u>1990</u>	<u>2021</u>	
Other*	11%	8%	4%
Wind & solar	0%	4%	11%
Hydro	6%	6%	7%
Nuclear	5%	4%	2%
Gas	18%	23%	30%
Oil	35%	29%	19%
Coal	24%	25%	27%
	<u>100%</u>	<u>100%</u>	<u>100%</u>

Note: * Other includes traditional biomass, biofuels, and other renewables

Source: BP Statistical Review of World Energy, 2022; Vaclav Smil, *Energy Transitions: Global and National Perspectives* (2017); Our World in Data

Human Activities Driving Greenhouse Effect



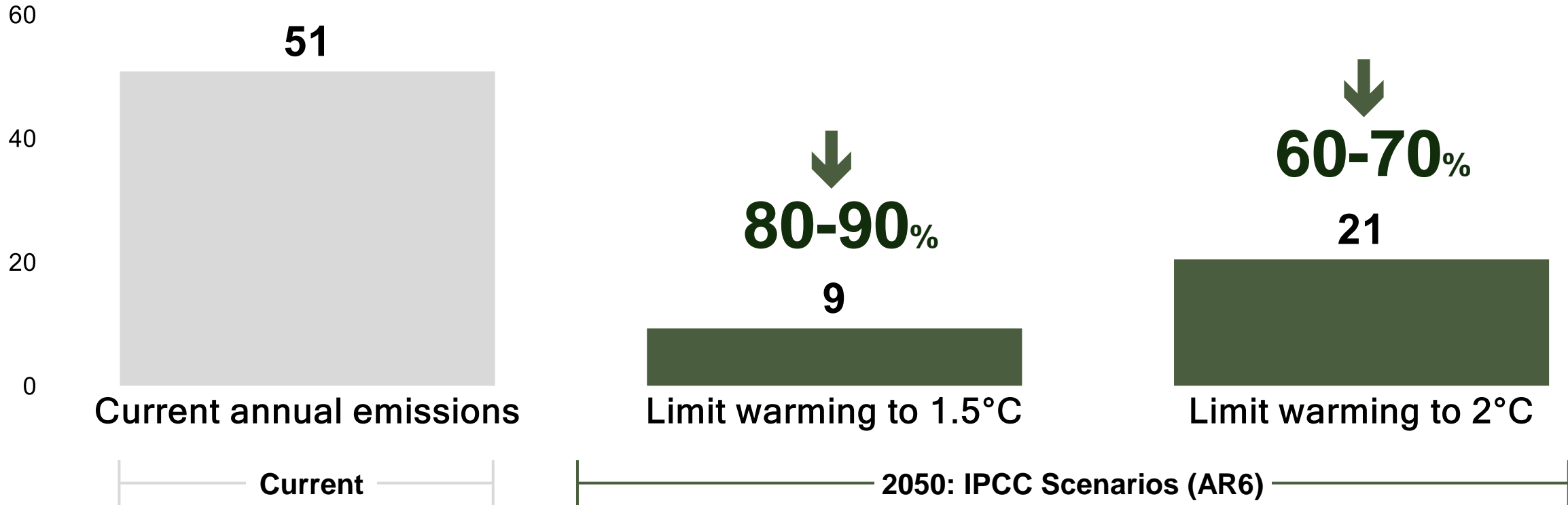
Note: Emissions measured in tons of CO₂-equivalent and include carbon dioxide, methane, nitrous oxide, and f-gases
Source: Bill Gates, *How to Avoid a Climate Disaster* (2021)

Required Emissions Reduction

THE DUAL CHALLENGE

Global greenhouse gas emissions

(measured in billions of tons of CO₂-equivalent)



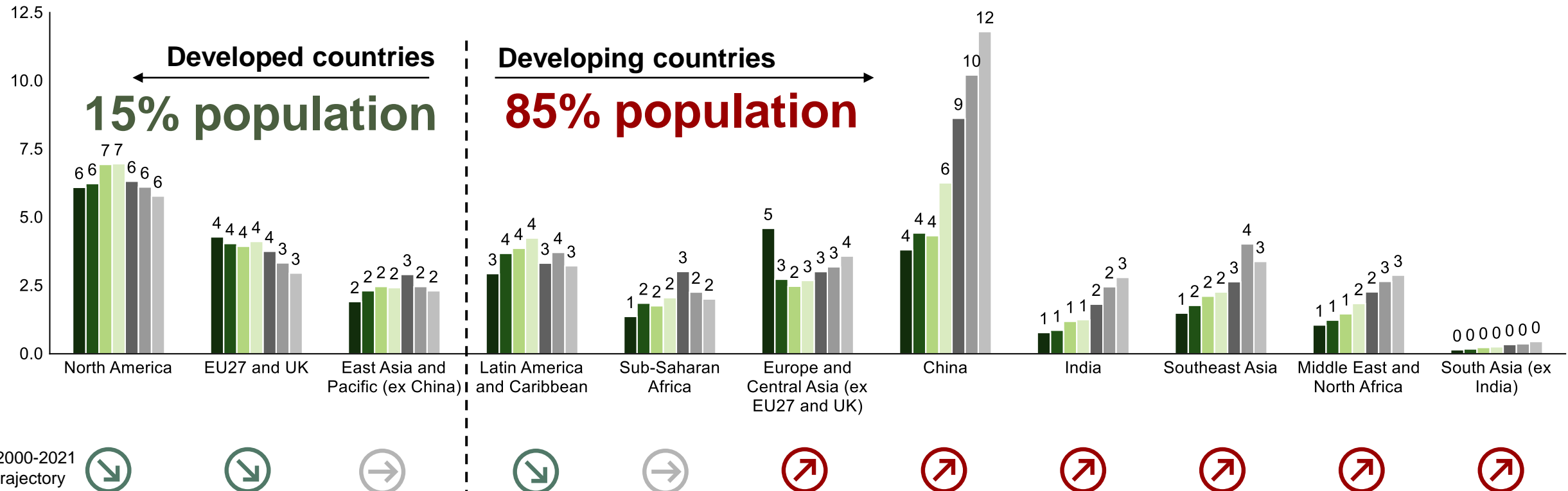
Note: 1.5°C scenario refers to “Limit warming to 1.5 °C (>50%) with no or limited overshoot” scenario in IPCC; 2 °C scenario refers to “Limit warming to 2 °C (>67%)” scenario. “>50%” and “>67%” refer to probability of reaching scenario should emissions reduction targets be reached. Source: IPCC, Sixth Assessment Report (AR6), Climate Change 2022: Mitigation of Climate Change – Summary for Policymakers, Table SPM.1 (2022); Climate Action Tracker (updated Nov 2021); Our World in Data

A Two-Track World on Emissions

THE DUAL CHALLENGE

Annual CO₂ emissions by country or region¹
(measured in billions of tons of CO₂)

1990 1995 2000 2005 2010 2015 2021



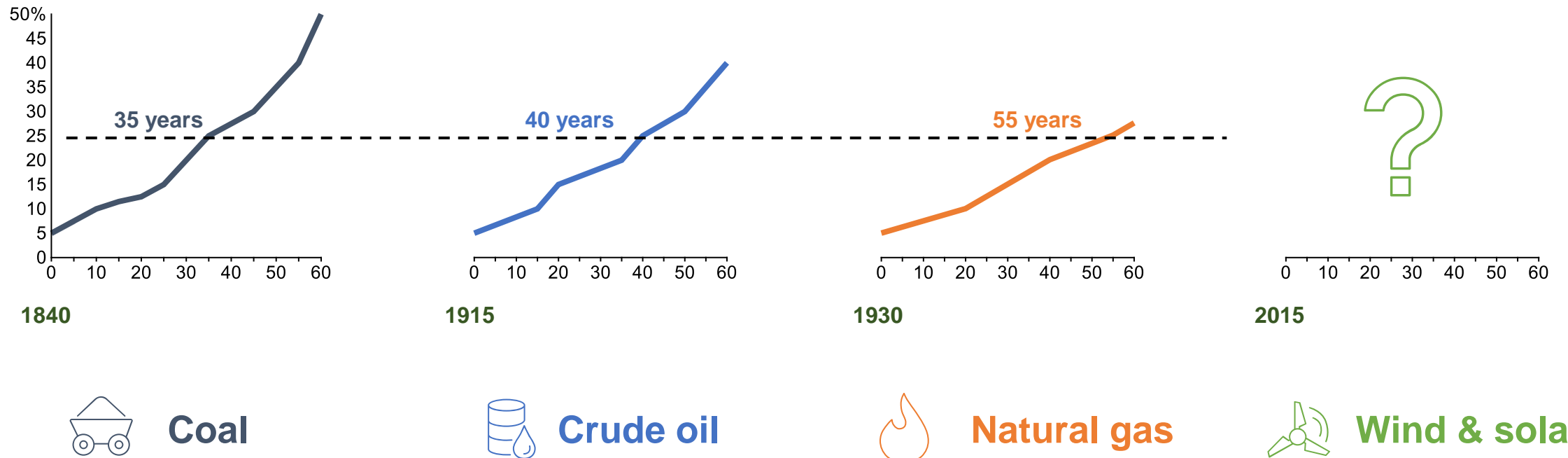
Note: (1) Emissions are production-based and include emissions from energy and land-use change
Source: Bain & Company analysis; Our World in Data; Global Carbon Project

Transitions Take Decades

THE DUAL CHALLENGE

Years until supplying 25% of global primary energy supply

(share of global primary energy supply)



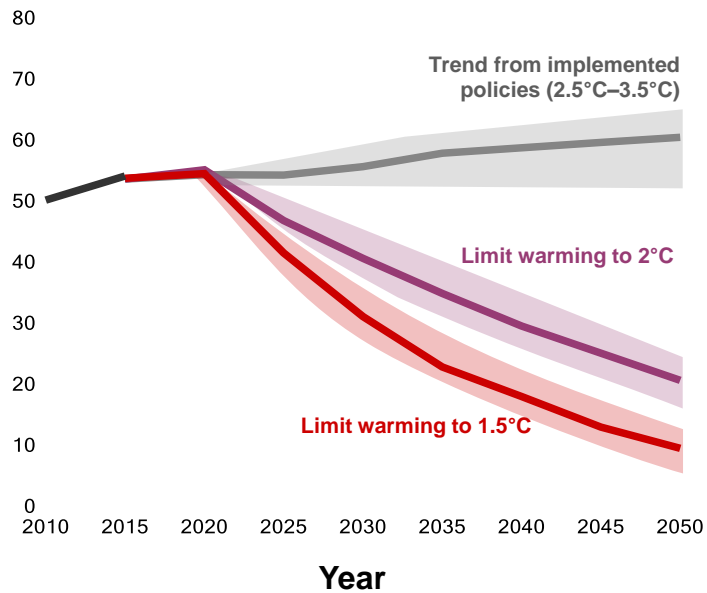
Note: Based on time from 5% to 25% of global energy supply
Source: Vaclav Smil, *Energy Transitions: Global and National Perspectives* (2017)

The Core of the Dual Challenge

THE DUAL CHALLENGE

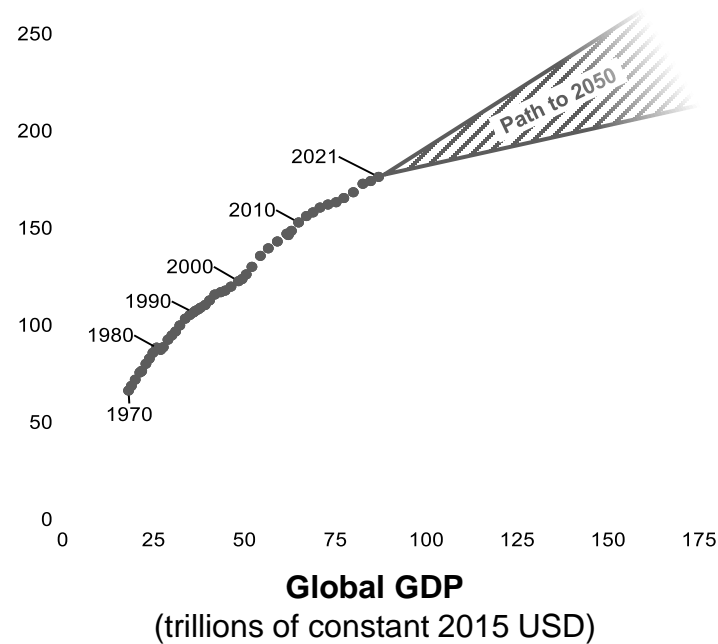
Emissions Must Decline

Global annual greenhouse gas emissions (gigatons of CO₂-equivalent)



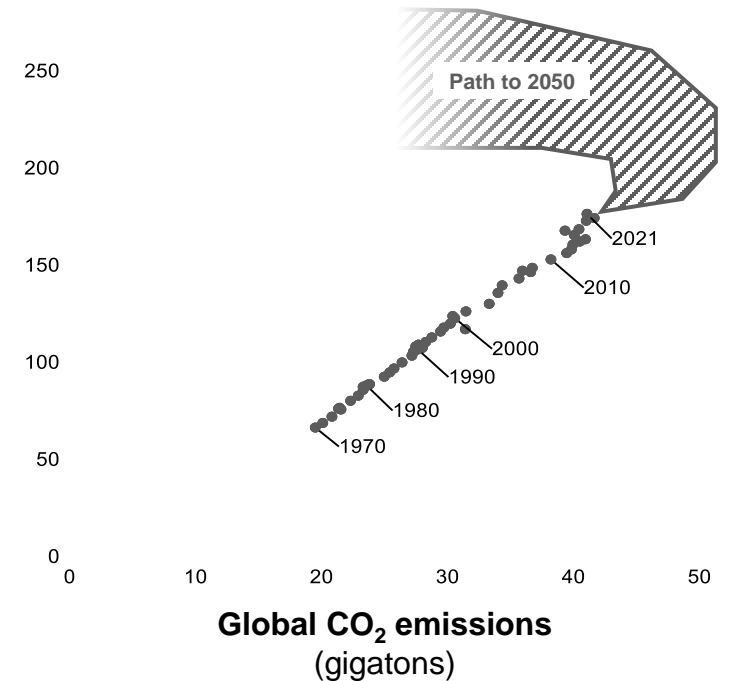
Energy Will Grow

Global primary energy demand (petawatt-hours)



The Dual Challenge

Global primary energy demand (petawatt-hours)



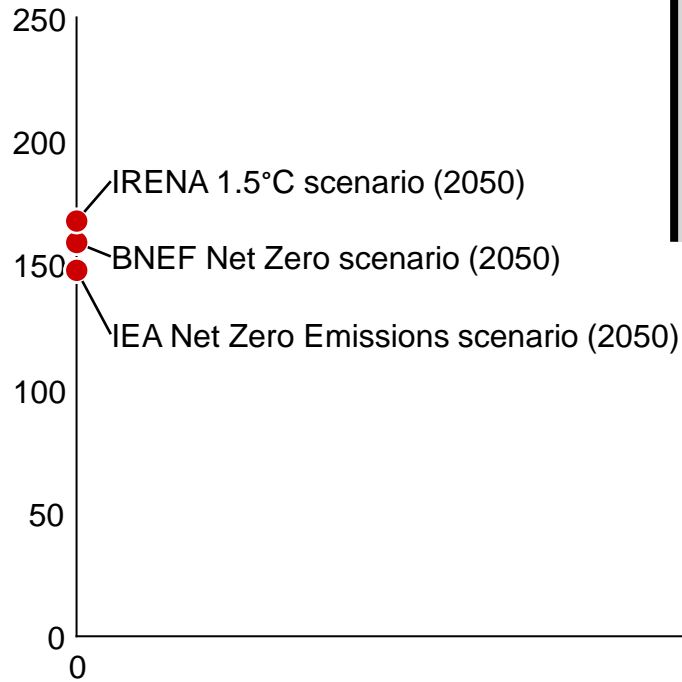
Note: Warming figures in left-side emissions chart are relative to the preindustrial period and reflect projected warming level by 2100 in each scenario; bold lines in emissions chart represent median estimate, and shaded regions reflect a range from the 25th to 75th percentile. Emissions in right-side chart reflect global CO₂ emissions inclusive of land use change and exclude non-CO₂ emissions like methane. Sources: IPCC, Sixth Assessment Report; World Bank; Global Carbon Project; BP Statistical Review of World Energy, 2022; Bain & Company analysis

The Line?

Needs to Bend... Quickly!

THE DUAL CHALLENGE

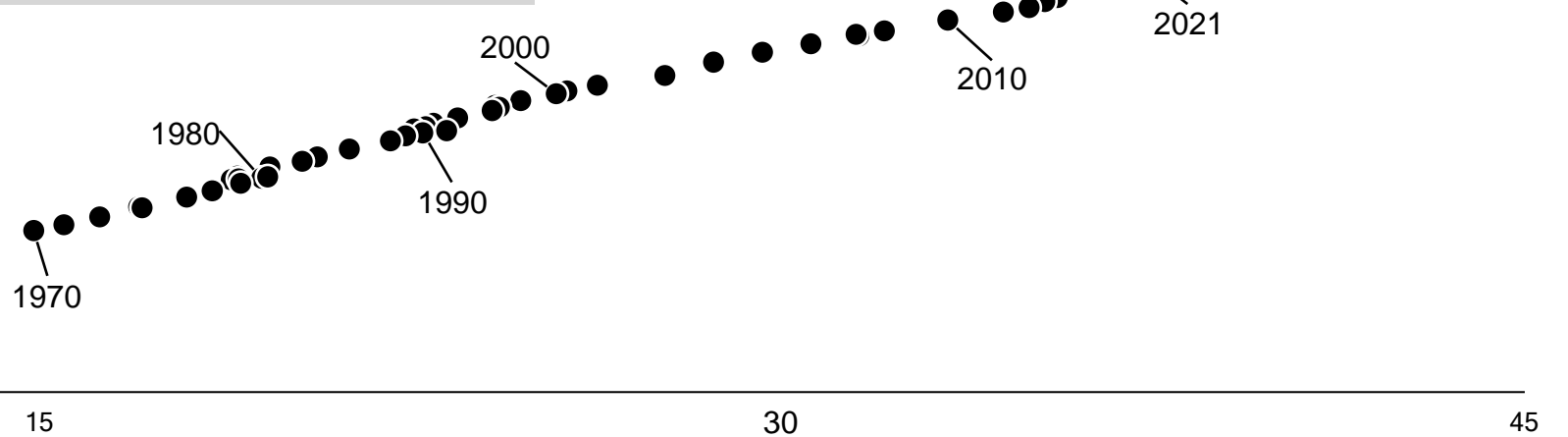
Global primary energy demand (petawatt-hours)



Demographic and economic backdrop for 2021-2050 period

1.7B projected population growth²

>2X projected real GDP growth, or 2.8% p.a.³



GLOBAL CO₂ EMISSIONS¹

(gigatons of CO₂)

Note: (1) CO₂ emissions exclude land use change and exclude non-CO₂ emissions like methane; (2) UN median fertility scenario; (3) GDP expressed in 2021 USD in purchasing power parity terms via IEA; (4) IEA STEPS scenario temperature estimate range reflects 33-67% confidence interval. Source: IEA; BP Statistical Review of World Energy, 2022; BNEF; IRENA; Resources for the Future



DISCUSSION AGENDA

01

An Introduction
to OpenMinds

02

Defining the
“Dual Challenge”

03

Confronting the
“Dual Challenge”

04

OpenMinds Strategy
and Path Forward

Our Solutions Approach

SOLUTIONS



Accelerate progress against the Dual Challenge by 203X

Analysis of Emissions and Energy Consumption

SOLUTIONS

Energy and Emissions

By source	By end use	Industry			Transport			Buildings			Agriculture			Other			Total	
		Energy	Emission	En/Em	Energy	Emission	En/Em	Energy	Emission	En/Em	Energy	Emission	En/Em	Energy	Emission	En/Em	Energy	Emission
ENERGY																		
Electricity/heat	18%	12%	-	<1%	0%	-	20%	12%	-	1%	1%	-	2% ¹	7% ²	-	42%	32%	
Coal	8%	8%	●	<1%	0%	●	9%	8%	●	<1%	<1%	●	<1%	5%	●	18%	21%	
Oil products and oil	<1%	<1%	●	-	-	-	<1%	<1%	●	-	-	-	-	-	-	<1%	1%	
Natural gas	4%	3%	●	-	-	-	5%	3%	●	-	-	-	<1%	1%	●	10%	7%	
Bio/waste ⁶	<1%	<1%	●	-	-	-	1%	<1%	●	-	-	-	-	-	-	2%	2%	
Nuclear	3%	<1%	●	-	-	-	3%	<1%	●	-	-	-	-	-	-	6%	<1%	
Renewables ⁷	2%	<1%	●	-	-	-	2%	<1%	●	-	-	-	<1%	<1%	●	5%	<1%	
Direct combustion	14%	13%	-	22%	17%	-	14%	6%	-	<1%	<1%	-	8%³	7%⁴	-	58%	44%	
Coal	6%	6%	●	-	-	-	1%	<1%	●	-	-	-	<1%	1%	●	7%	7%	
Oil products and oil	2%	2%	●	20%	16%	●	2%	1%	●	<1%	<1%	●	6%	5%	●	31%	24%	
Natural gas	5%	3%	●	<1%	<1%	●	5%	2%	●	-	-	-	1%	1%	●	12%	6%	
Bio/waste	1%	2%	●	<1%	1%	●	6%	3%	●	-	-	-	-	-	-	8%	6%	
NON-ENERGY																		
Industrial processes	-	6%	N/A	-	-	N/A	-	-	N/A	-	-	N/A	-	-	N/A	N/A	6%	
Agriculture	-	-	N/A	-	-	N/A	-	-	N/A	-	12%	N/A	-	-	N/A	N/A	12%	
Other	-	-	N/A	-	-	N/A	-	-	N/A	-	-	N/A	-	7% ⁵	N/A	N/A	7%	
Total	32%	31%		22%	17%		34%	18%		2%	13%		10%	21%		100%	100%	

/ DIRECTIONAL

Key impact areas

- A** Electricity generation from fossil fuels
- B** Oil and oil products for transportation
- C** Energy usage in buildings
- D** Fugitive emissions
- E** Industrial processes
- F** Energy supply needs to expand in a lower carbon manner to support economic growth in the developing world

Legend:

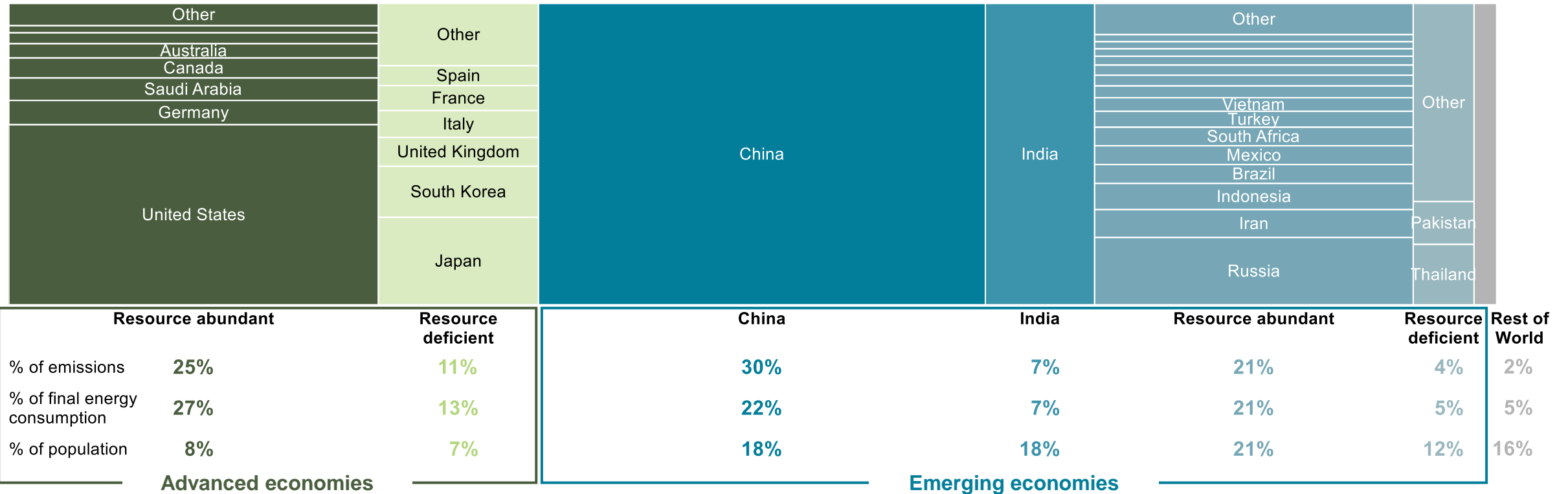
- Key impact areas
- High Energy/Emissions ratio
- Moderate Energy/Emissions ratio
- Low Energy/Emissions ratio

Note: Data reflected above is for 2019. Energy data reflects primary energy and emissions data reflects greenhouse gas emissions in terms of CO₂ equivalent. 1: Electricity/heat going to non-specified and non-energy uses, 2: Unallocated fuel combustion for electricity, 3: Energy going to non-specified and non-energy uses, 4: Emissions from energy production and fugitive emissions, 5: Emissions from LUCF and food waste (6%), 6: Includes traditional biomass and animal materials/waste 7: Includes geothermal, solar/tide/wind, and hydro, CO₂ equivalent includes methane and nitrous oxide emissions. **Figures are directional.**
 Sources: IEA, WRI, Climate Watch, German Environment Agency; EIA

Emissions and Energy Consumption by Country Archetype

Total emissions by archetype

Percent of CO₂ emissions – 2019



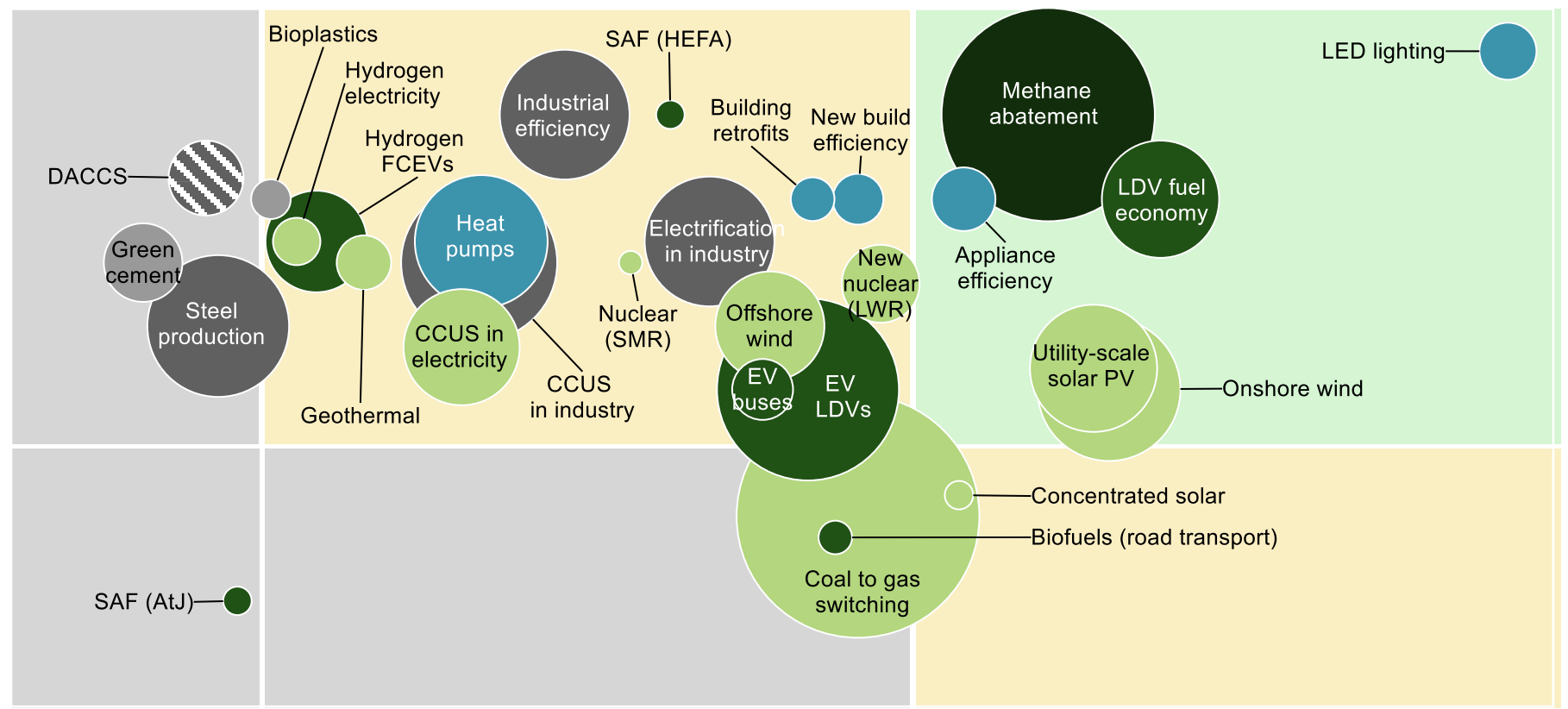
Note: Countries are grouped into archetypes by level of development and resource abundance, CO₂ emissions includes land use, land use change and forestry and excludes non-CO₂ emissions like methane
 Source: Flourish, Global Carbon Atlas, OWID, IEA, EuroMonitor, EIA, World Bank

Prioritization of Potential Solutions

SOLUTIONS

DIRECTIONAL

More viable
↑
Social, System, and Environmental Viability
↓
Less viable



Key impact areas for solutions:

- Electricity generation from fossil fuels
- Oil and oil products for transportation
- Energy usage in buildings
- Fugitive emissions
- Industrial processes
- Other

LEGEND

1.5 GtCO_{2e}

Medium-term annual CO_{2e} abatement potential

Low ← Technological and Economic Readiness → High

Note: Abatement potential refers to medium-term annual CO_{2e} emissions reduction; building efficiency and retrofits refers to insulation and HVAC only; DACCS abatement potential virtually infinite; industrial efficiency includes solutions such as waste to heat recovery; renewable solutions include battery component in cost and abatement potential; geothermal represents enhanced geothermal systems; assumes methane has global warming potential 30 times that of CO₂
Source: IEA; IRENA; Goldman Sachs; Project Drawdown; OpenMinds research and lit. scan

Our Top 10 Solutions

SOLUTIONS

'Top 10' solutions

Prioritized set of solutions with high viability and sufficient technological and economic readiness to “bend the curve” by 203X

Big 4 opportunities

Abating methane emissions from energy	Renewables (i.e., solar and wind)	Coal-to-X switching	CCUS in electricity and industry
Transportation energy efficiency	Industrial efficiency and electrification	Electric LDVs	Heat pumps
		New and existing nuclear	Buildings efficiency

Other important solutions

Solutions that **may be critically important** but are assessed as having less overall impact potential by 203X relative to our list of ‘top 10’ solutions

Behavioral change	Adaptation	We are considering whether and how to incorporate these more fully into our efforts	
Distributed generation	Green steel and cement	Nature-based solutions	Hydrogen
LED lighting	Direct air capture	Geothermal	Circular economy

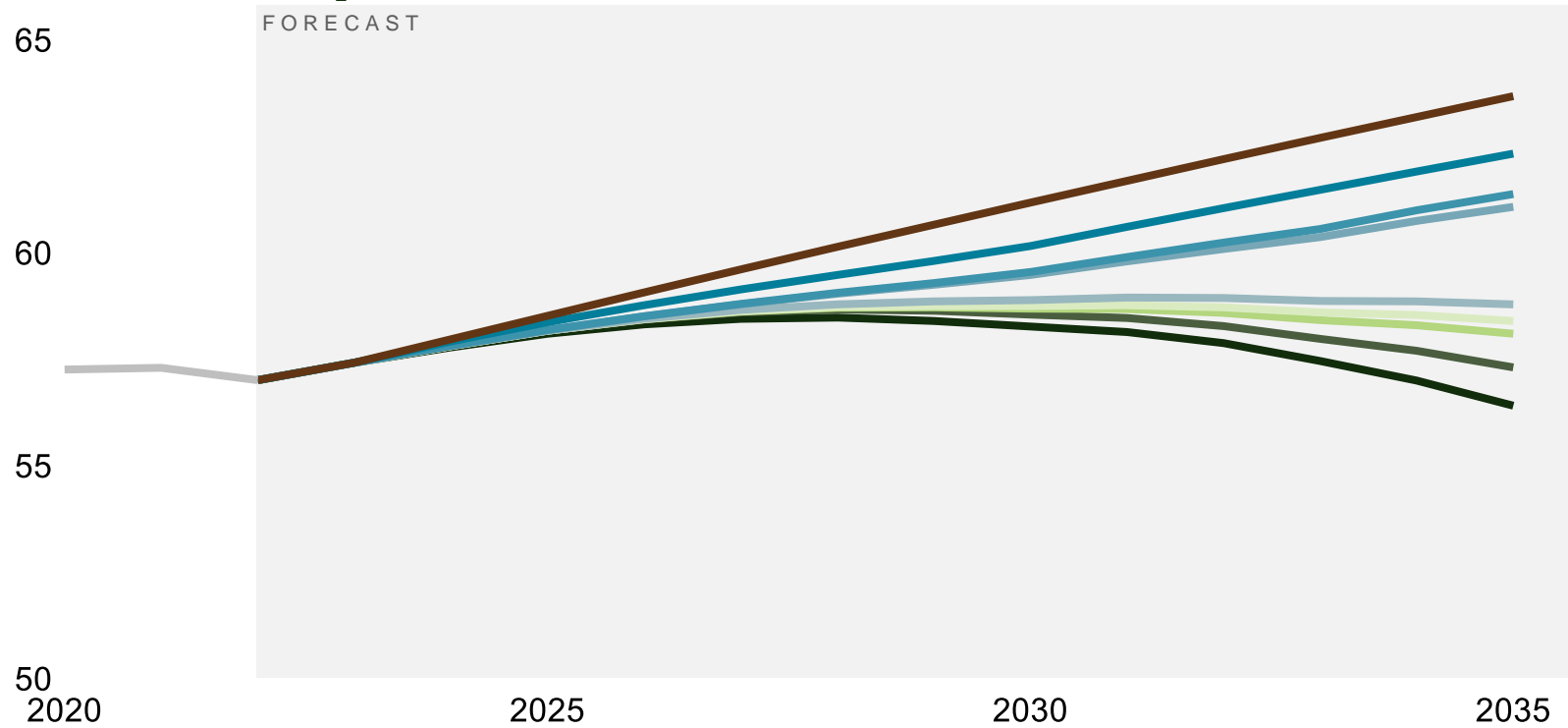
Impact of Implementing Key Solutions

SOLUTIONS

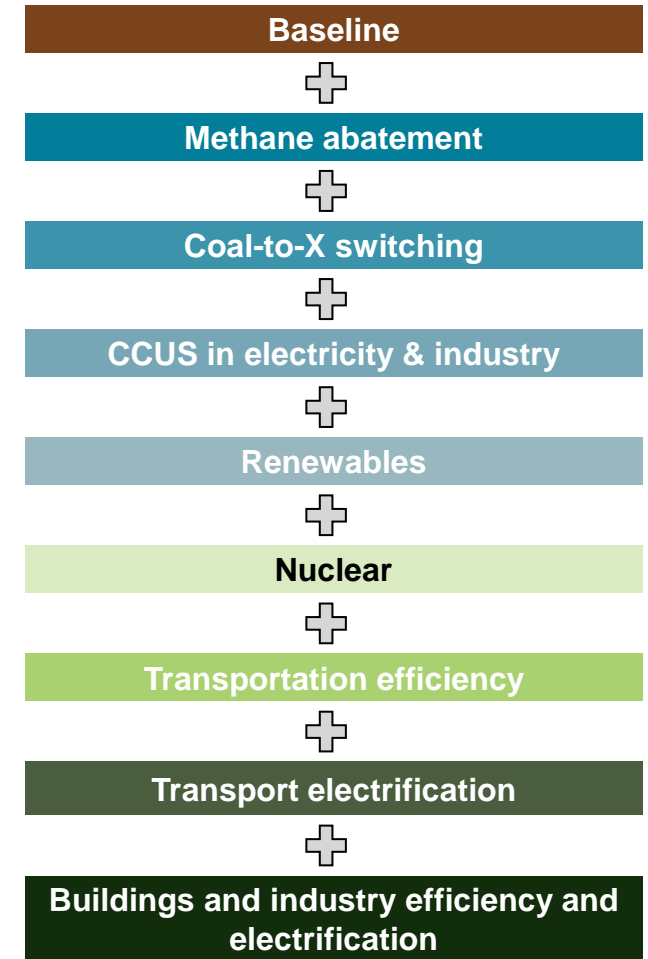
Projected emissions impact

Global annual net GHG emissions

GIGATONS OF CO₂E PER YEAR



/ PRELIMINARY



Source: Climate Interactive

<https://openminds203x.org/>



DISCUSSION AGENDA

01

An Introduction
to OpenMinds

02

Defining the
“Dual Challenge”

03

Confronting the
“Dual Challenge”

04

OpenMinds Strategy
and Path Forward

OpenMinds Strategy

Mission

Less emissions. More energy. Accelerate progress against the Dual Challenge by 203X

2035 Goals

[10%] lower emissions, [10%] more energy against current baseline

Ambition

Activate OpenMinds' network of experts to drive collaboration and near-term impact on the Dual Challenge

Where to Play

Areas of focus

- Early US focus; later expansion
- Initial objectives:
 - Decarbonize generation
 - Expand energy infrastructure
 - Enable future leaders

How to Win

Sources of advantage

- “Uncommon table” of top climate AND energy experts
- Non-partisan position/peer-review mechanism
- Data-driven model of “success for the US”
- Professional communications expertise
- Asset-light model, minimizing donor influence

Geographies

Phase 1 (2024-2027)

Accelerate progress in the US

Phase 2 (2027-2030)

EU / UK team

Asia / other team

Long-term (2030+)

Phase 1 (2024-27): Address the Dual Challenge in the US

Impact Steering Committees

GENERATION

1 Decarbonizing Generation

Accelerate decarbonization while meeting rapidly growing power needs by advancing abundant, low-carbon firm power

INFRASTRUCTURE

2 Connecting America

Enable key decision-makers to rapidly expand infrastructure such as electric transmission

3 Developing NextGen Leaders

Empower the next generation of climate and energy leaders by identifying, equipping, and connecting them with expertise and resources to succeed

4 Communicating to Accelerate Impact

Build the OpenMinds brand and provide balanced and compelling communication resources and tools

1

Decarbonizing Generation

Mission

ENABLE key players **TO** accelerate decarbonization of power generation **BY** deploying innovative, fit-for-purpose approaches to identify and overcome current hurdles

2024 Objectives

- Aggregate generation planning scenarios to identify critical assumptions; challenge these with transparent scenarios for a range of outcomes; and quantify the value of key collaboration opportunities
- Accelerate deployment of identified opportunities (e.g., CCUS, methane abatement, scaled renewables) to advance abundant, low-carbon firm power in key regions, technologies, and supply chains in the US, initiating work on 1-2 opportunities where bottlenecks are inadequately addressed

Steering Committee



Steve Lockard
Chairman
TPI Composites



Kurt Waltzer
Principal
Energy Systems
Innovation
Consulting

Co-leaders



Dr. Doug Arent
Executive Director,
Strategic PPPs
NREL



Thad Hill
CEO
Calpine



Stan Miranda
Founder & Chairman
Partners Capital



Jessica Uhl
President
GE Vernova



Myrtle Dawes
CEO
Net Zero
Technology Centre



Mateo Jamarillo
CEO
Form Energy



Dr. Jonas Peters
Director
Resnick Sust.
Institute, Caltech



Jason Wells
CEO
CenterPoint Energy



Michael DeBock
VP of Origination
NextEra Energy



Thomas McAndrew
Founder & CEO
Enchanted Rock



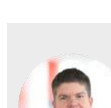
Heather Redman
Co-Founder &
Managing Partner
Flying Fish Partners



Darryl Willis
Corporate VP of Energy
& Resources Industry
Microsoft



Jon Goldberg
Founder & CEO
Carbon Direct



Grant Dougans
Partner
Bain & Company



Preston Henske
Partner
Bain & Company

Bain leads



Erika Serow
Partner and CMO
Bain & Company



Rob Shepardson
Founding Partner
SS+K

Communications map

2 Connecting America

Mission

ENABLE key decision makers **TO** accelerate the development of infrastructure such as electric transmission in the US **BY** shaping key stakeholders' and the public's understanding through non-partisan, data-based insights and messaging

2024 Objectives

- Shape US dialogue on infrastructure beginning with electric transmission through **non-partisan, data-based, easy-to-understand perspectives**
- Provide relevant insights to **policy makers on federal, regional, and state levels**
- Identify and communicate **community engagement best practices** to help de-bottleneck projects

Steering Committee



Larry Selzer

President & CEO
The Conservation
Fund



Scott Brown

Chairman
New Energy Capital
Partners

Co-leaders

<https://openminds203x.org/>



John Arnold

Co-Founder, Arnold
Ventures
Board Member, Meta



Jayshree Desai

CFO
Quanta Services,
Inc.



Joe Kennedy

President
Citizens Energy



Al Vickers

COO
Grid United



Armond Cohen

Executive Director
Clean Air Task Force



Bob Flexon

Chair, PG&E
Director, ERCOT



Miguel Prado

CEO
EnergyRe



Daniel Weiss

Co-Founder &
Managing Partner
Angeleno Group

PAGE 29



Ted Craver

Board and advisory roles
Duke Energy, Bain & Co,
Wells Fargo, Blackstone



Vicki Hollub

President and CEO
Oxy



Dan Tishman

Chairman & Principal
Tishman Realty &
Construction



Michael Short

Partner
Bain & Company



Cate Hight

Partner
Bain & Company

Bain leads



Jeff Katz

Co-Founder
OpenMinds

Communications map

3 Developing NextGen Leaders


Mission

ENABLE the next generation of climate and energy leaders **TO** confront the Dual Challenge **BY** identifying, equipping, and connecting them with expertise and resources to succeed

2024 Objectives

- Launch first cohort of the NextGen program, including first round of student-led impact projects
- Build the foundation to expand and sustain the NextGen program over time


Steering Committee



Dr. Minoo Rathnasabapathy
Program Lead
Future Worlds, MIT Media Lab




Dr. Neil Fromer
Executive Director
Resnick Sustainability Institute, California Institute of Technology



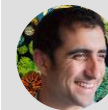
Phoebe Ho-Stone
CCS Development Planner, ExxonMobil Low Carbon Solutions




Ira Joseph
Global Fellow
CGEP, Columbia University




Dianne Ledingham
Advisory Partner
Bain & Company



Brady Walkinshaw
CEO
Earth Alliance



Dr. Naomi Boness
Managing Director
Stanford Natural Gas and Hydrogen Initiatives



Dr. Shannon Miller
Founder & CEO
Mainspring Energy




David Pruner
Executive Director
TEX-E




Ben Soltoff
Entrepreneur in Residence
MIT's Martin Trust Center for Entrepreneurship

Bain lead



Sam Hall
MBA Candidate
MIT




Daniela Marin
PhD Candidate
Stanford University

Student representatives

Communications map



Dr. Robert Johnston
Executive Director
CGEP, Columbia University
Co-leaders



Dr. Cyrus Wadia
CEO
Activate



Dr. Mike Witt
Chief Sustainability Officer
Northrop Grumman

2024 NextGen Cohort



Frank Agwuncha
Columbia University
Masters – Sustainability
management



Ines Azoy-Parravano
University of Michigan
Bachelors – Computer
science



Sam Hall
MIT
MBA – Energy & climate
technology



Hillary McKenzie
University of Michigan
MBA/MS – Sustainability



Yogi Nishanth
Harvard University
Masters – Sustainability
ALM



Cameron Andrews
University of Texas
MPA – Policy



David Brown
MIT
MBA – Entrepreneurship



Tam Kemabonta
Arizona State University
PhD – Sustainable
energy



Hannah Mae Merten
Harvard University
MBA/Masters – Public
policy



Oyindamola Pedro
MIT
MBA – Sustainable fuels



Edward Apraku
Stanford University
PhD – Environmental
engineering



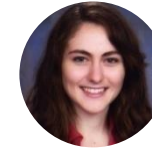
Dennis Cha
Harvard University
MBA – Energy transport



Vivek Kesireddy
Texas A&M
PhD – Petroleum
engineering



Hannah Murdoch
Stanford University
MBA/MS – Environment &
resources



Kimberly Sinclair
University of Washington
PhD – Earth and space
sciences & astrobiology



Ainee Athar
Stanford University
MBA/MSc –
Environmental resources



Anita Chandahas
Harvard University
Post-doctoral fellowship
– Biomedical science



César Lasalde-Ramírez
Caltech
PhD – Energy storage



Kristina Nabayan
Columbia University
PhD – Materials science
& engineering



Amanda Studebaker
Stanford University
MBA/MS – Environment &
resources



**Thaissa Avena da Cruz
Antunes**
Columbia University
MPA – Development
practice



Debjyoti Chatterjee
UT Austin
PhD – Electrical &
computer engineering



Daniela Marin
Stanford
PhD – Chemical
engineering



Ian Naccarella
Harvard University
MBA – Electric vehicles



Andrew van Baal
University of Michigan
MS – Sustainable
systems



Victor Awosiji
Stanford University
PhD - Earth & planetary
sciences



Isabelle Dunning
Columbia University
MS – Sustainability
management



Karina Masalkovaite
Stanford University
PhD – Materials science
& engineering



Bianca Derya Neumann
University of Potsdam
MA – Political science,
environmental policy



Yingxiao Zhang
University of Michigan
PhD – Climate sciences
& engineering

4

Communicating to Accelerate Impact

Mission

Formulate an OpenMinds model, state-of-the-art Comms team, toolkit, and tactics to build the OpenMinds brand (i.e., leader in analytics, collaborative problem solving, implementation for impact, etc.) and be a key voice/source for content for our audience

2024 Objectives

- Improve the website to improve “salience” and visitor-growth, and build our toolkit (i.e., brand guideline, content packages, etc.)
- Define and convey to OpenMinds participants who our audience is and the key channels we will reach them through
- Create wireframes of “playbooks” to be used by other SteerCo’s to communicate their impact with internal and external stakeholders

Steering Committee



Jeff Katz

Co-Founder
OpenMinds



Bridgitt Arnold

Vice President of
Communications
Google



Rachael Porter

CMO
Oxy



Dr. Maya Tolstoy

Dean of UW College of
the Environment



Erika Serow

Partner and CMO
Bain & Company



Rob Shepardson

Founding Partner
SS+K



Brady Walkinshaw

CEO
Earth Alliance



Nate Nickerson

Comms and Public
Affairs Partner
DCVC

Co-leaders

Bain lead

We look forward to staying in touch!

Learn more about OpenMinds, the Dual Challenge, and our Top 10 solutions



<https://openminds203x.org/>



David Baldwin

Co-founder, OpenMinds
dbaldwin@scfpartners.com



Jeff Katz

Co-founder, OpenMinds
jgkatz@me.com



OpenMinds

Solving for the
Dual Challenge.