



Good for the Economy.
Good for the Environment.

March 2, 2020

Dear Members of Congress,

We write in strong support of the bipartisan bills to phase down harmful chemicals called hydrofluorocarbons (HFCs) and replace them with climate-friendlier alternatives. The American Innovation and Manufacturing “AIM” Act (S. 2754) in the Senate and the American Innovation and Manufacturing Leadership Act (H.R. 5544) in the House of Representatives will help protect against dangerous climate change while creating American jobs and securing the United States as a global leader.

As architects, contractors and engineers, we understand that transitioning from HFCs to climate-friendly alternatives is not only necessary for the climate, it is also a major opportunity for the American economy. We urge your support for the legislation.

Building energy usage accounts for nearly 40% of global energy consumption and buildings play a key role in high HFC emissions. HFCs leak into the atmosphere from air conditioners and industrial refrigeration units during the lifetime of equipment and at the time of replacement and disposal. Pound-for-pound, HFCs have hundreds to thousands of times the heat-trapping impact of carbon dioxide.

Fortunately, a global transition away from HFCs has started. American companies are already marketing innovative substitutes for HFCs and can lead the worldwide transition to environmentally-friendlier alternatives. As industry professionals, we know that we can transition away from HFCs smoothly, and this would benefit both our customers and the overall U.S. economy.

Both S. 2754 and H.R. 5544 establish a schedule for reducing production and import of HFCs binding on all U.S. chemical makers, importers and provides for acceleration when alternatives are more available. The bills require recovering reusable chemicals and reducing leaks during the service and disposal of equipment containing HFCs. And they provide for manufacturers to transition in specific categories of equipment, such as refrigerators and air conditioners, when climate-friendlier alternatives are available.

The market-based phase-down proposed in the legislation is a tried and true approach. The bill follows the same approach used under the Clean Air Act to phase out HFCs’ predecessors, the CFCs and HCFCs, which damaged the earth’s ozone layer. Now, as then, U.S. legislation will work alongside the Montreal Protocol, the global environmental treaty adopted under President Ronald Reagan.

Phasing down HFCs will be good for both our economy and our environment. According to a

recent study by the Interindustry Forecasting at the University of Maryland (INFORUM), a national HFC phase down will:

- Create 33,000 new manufacturing jobs and help sustain 138,400 existing jobs;
- Increase direct manufacturing output by \$12.5 billion and total manufacturing output by \$38.8 billion;
- Improve the U.S. trade balance in equipment and chemicals by \$12.5 billion; and
- Increase the U.S. share of the global export market by 25 percent.

In short, these bi-partisan bills address a critical environmental need while creating jobs and maintaining our global competitiveness.

As architects, engineers, and contractors, we join the long list of industry supporters of these bipartisan bills from entities small and large including the U.S. heating, air-conditioning and refrigeration (HVACR) industry, National Association of Manufacturers the US Chamber of Commerce and E2 (Environmental Entrepreneurs) to urge your support.

Sincerely,

Brendan Albano (Oregon)

Architect, Polymath Studio
Architecture, LLC

Valerie Amor (New York)

Founder, Action Oriented
Visionary, Drawing Conclusions
LLC

Geoff Anderson (Washington)

Architect, Schemata Workshop

Nathali Anton (Florida)

Architect, Parkway Construction
& Architecture

Mercedes Armillas (New York)

Principal, ANTHROPE
Architecture

Denise Arnold (Illinois)

Managing Principal, Denise R.
Arnold LLC

Katherine Austin (Oregon)

Owner, Katherine Austin, AIA,
Architect

Anthony Bandy-Zalatoris (Ohio)

senior project architect, Vocon

Michael Beaman (Virginia)

Founder, Alterior Office

Michael Beattie (Vermont)

Architect, Michael Beattie,
Architect, p.c.

Raj Gupta (Illinois)

Executive Chairman, ESD

Marco Gutierrez (Illinois)

Architect, MAG Architect/ Code
Consultant. Inc.

Caroline Hancock (New Jersey)

Dir. of Business & Marketing,
Historic Building Architects, LLC

Gary Harris (Washington)

Architect, Retired

Robert Harris (Illinois)

Associate, Pappageorge Haymes
Partners

Chris Hellstern (Washington)

Living Building Challenge Services
Direc, The Miller Hull Partnership

Kristin Henry (Louisiana)

Interior Designer, Eskew Dumez
Ripple

Elizabeth Herrmann (Vermont)

President, Elizabeth Herrmann
Architecture + Design

James Hightower (Texas)

Owner, HiWorks LLC

Jay Hindmarsh (Washington)

Architect / Specifier, Mahlum
Architects

Nick Peckham (Missouri)

Architect, Peckham Architecture

Mark Perepelitza (Oregon)

Principal, SERA Architects

John Pinegar (New York)

Construction Administration ,
MHG Architects

Robert Profita (Illinois)

Project Designer, Whitney
Architects

Roger Quelch (Colorado)

Architect, Treanorhl

Sean Quinn (Illinois)

VP of BD, Whitney Architects

Scott Rappe (Illinois)

principal, Kuklinski+Rappe
Architects

Lindsay Rasmussen (New Mexico)

Program Manager, Architecture
2030

Megan Recher (Illinois)

Sustainable Building Advisor,
Perkins and Will

Mark Reddington (Washington)

Partner, LMN Architects

Amanda Reed

Architect, Johnston Architects

Maria Bergh (Illinois)

Member-Owner, Co-founder,
JustDesign

Alexandra Blanchet (Illinois)

Project Associate, KTG
Architecture + Planning

Melissa Bogusch (Illinois)

Architect, Whitney Architects,
Inc.

Jeff Bone (Illinois)

Principal, Landon Bone Baker
Architects

Gayle Borst (Texas)

Pres/CEO, Stewardship, Inc.

Thomas Brackett (Illinois)

Sr. Project Manager, Whitney
Architects

Oliver Brandt (Oregon)

Designer, Polymath Studio

Angela Brooks (California)

principal, Brooks + Scarpa
Architects

Steven Brubaker (Illinois)

Principal, Brubaker

Clark Buchner (Tennessee)

Owner, Clark A. Buchner AIA

Janet Caponigro (Illinois)

Sr. Project Manager, Whitney
Architects

Will Carlson (Texas)

Architect, Gresham Smith

Sanjiv Chadha (Illinois)

President, Chadha and Associates

Charles Chambers (California)

Studio Director, Walker
Workshop

Shabbir Chandabhai (Illinois)

Founder, Burhani Design
Architects

Bill Chin (Illinois)

Principal, PARACHIN Design
Studios, Ltd.

Linda Chin (Illinois)

Principal, PARACHIN Design
Studios, Ltd.

Lauren Chipman (Illinois)

CEO, Chipman Design
Architecture

Rousena Hoag

Principal, RH Architecture
and Design

Zach Hoffman (Illinois)

Architect, Manske Dieckmann
Thompson Architecture

Justin Holdahl (New York)

Associate Principal, Heintges

Heather Holdridge (Texas)

Director of Design Performance,
Lake|Flato Architects

Stanley Honn (Oregon)

Architect, Honn Design &
Construction

Thomas Houle (Illinois)

Technical Authority, ESD

Edward Huang (California)

Principal, CIEDM

Brian Imus (Illinois)

Executive Director, USGBC -
Illinois Chapter

Tom Jacobs (Illinois)

Partner, Krueck + Sexton

Tyler Jensen (Illinois)

Studio Leader, ESD

Edward Jones (Arizona)

Principal, Jones Studio

Sheryl Jordan (New Jersey)

Architect (Sole Proprietor), Sheryl
Jordan Architect

Zoe Justh (Illinois)

Proposal Coordinator, Whitney
Architects, Inc.

Phil Kaplan (Maine)

Principal, Kaplan Thompson
Architects

Kurt Karnatz (Illinois)

President, ESD

John Kelley (California)

Owner, JDK/AIA Architect

Mark Kelly (California)

Associate Principal/Director of
Sustainability, BAR Architects

Asfandyar Khan (Illinois)

Project Engineer, Wight &
Company

Michael Kinsella (Illinois)

Senior Architect, UrbanWorks

Katie Reilly (Georgia)

Project manager , Rothman and
Rothman Design

Nicholas Reiter (New York)

Architect, WRNS Studio

Edgardo Rivera-Ortiz (Illinois)

Project Architect, Nelson

William Rodon Hornof (Illinois)

President, 2rz

Amanda Roelle (Illinois)

Architect, BTL Architects

Eva Rosenbloom (Vermont)

Architect, EPR

Cory Rouillard (New York)

Associate Partner, Jan Hird
Pokorny Associates

Heather Salisbury (Illinois)

Senior Associate, Valerio Dewalt
Train

Mark Schaefer (Illinois)

Owner, MRSA Architects

Christopher Schaffner

(Massachusetts)

CEO, The Green Engineer, Inc.

Taylor Schaub (Illinois)

Architectural Associate, Tandem
Architecture & Construction

Phoebe Schenker

Chief planning officer, Eames
Institute

Corey Schnobrich (California)

Architect, Leddy Maytum Stacy
Architects

Neil Schoof (Michigan)

President, Neil T. Schoof Architect,
Inc.

Palmer Schooley (Texas)

Principal, PBS/AAD

Schooleydesign

Elliot Schwarz (Illinois)

Project Architect , PappaGeorge
Haymes Partners

Lee Schwerin (Illinois)

Principal, Steffen+Schwerin
Architects, Ltd.

Alan Scott (Oregon)

FAIA, Intertek

Sheila Christian (District of Columbia)

Project Manager, FOX Architects

Juliet Chun (Massachusetts)

Architect, Leers Weinzapfel Assoc.

Donna Church (Vermont)

Architect/Owner, studioblue Architecture

Dale Clark (Illinois)

Director of Operations, Equity Office

Anne Cleary (Illinois)

Communications, Interface

Andrea Cochran (California)

president, Andrea Cochran Landscape Architecture

Adam Cohen

Student, Waterloo School of Architecture

Manuel Cordero (Rhode Island)

Educational Facility Planner, School Building Authority

Caroline Corriveau (New Hampshire)

Architectural Designer, Warrenstreet Architects

Pam Crowell (Illinois)

Project Architect, Valerio Dewalt Train

Patrick Danaher (Illinois)

Architect, Morris Architects Planners

Cindy Davis

Sustainability Specialist, MG2 Design

Daryl J. Dean (Wisconsin)

Architect, USDA Forest Service

Elaine Decho-Fishman (Illinois)

Project Manager, Whitney Architects

Katie Devlin (New York)

Project Manager, Mace North America

Amy Dishman (Nebraska)

Interior Designer, BVH Architecture

Steve Kismohr (Illinois)

Sole Practitioner, Green Hat Eco-Studio

Keith Knapp (Illinois)

President, Corporate Architectural Services, PC

Sally Kolin (Illinois)

Senior MEP PM, Clayco

Melissa Kops (Connecticut)

Associate, Pirie Associates architects

Kevin Kosciulek (Illinois)

Associate, bKL Architecture

Cynthia Kraus (California)

Architect, OPENHAUS

Jamie Kudjer (Illinois)

Designer, Whitney Architects

Sonya Kuo (New York)

Architect, Studio Kuo Vogel

David Langdon (Illinois)

Architect, Krueck + Sexton Architects

Michael Lischer

Principal, Sport Concepts

Elias Logan (Massachusetts)

Designer, MERGE Architects

Sara Lundgren (Illinois)

Associate Principal, Krueck + Sexton

Donald Luthardt (Washington)

Associate Principal, LSW Architects

Glenn MacCullough (Virginia)

President, MacCullough Architects, P. C.

David Mann (Illinois)

Principal, Booth Hansen

Mike Manzi (Oregon)

Associate Principal, Bora Architects

Dave Markie (Minnesota)

Architectural Designer,

Rick McDermott (Missouri)

Principal, RDM Architecture

Charles Meagher (Illinois)

Associate Principal, Clayco

Nicole Semple (Illinois)

Principal, Kuklinski + Rappe Architects PC

Mark Sexton (Illinois)

Principal, Krueck + Sexton Architects

Sarah Simpson (Texas)

Architect, Colorspace

Brandon Socha (Illinois)

Project Architect, Whitney Architects, Inc.

Robert Sotolongo (North Carolina)

President, DTW Architects

Steve Sovak

Principal, WMA / Salas Obrien

Raphael Sperry (California)

Associate, Arup

Kate Spitzer

Sr. Project Manager / Architect, City of Seattle

Jesse Stenftenagel (Illinois)

Sustainability Specialist, Dirtt

Mark Stenftenagel (Illinois)

CEO, Whitney

Josiah Stevenson (Massachusetts)

Principal, Leers Weinzapfel Associates

David Stirling (Massachusetts)

President, Stirling/Brown Architects, Inc.

William Sturm (Illinois)

Principal, Serena Sturm Architects, Ltd

Shawn Swisher (Arizona)

Architect, Jones Studio

Paulina Szpiech (Illinois)

Architect / Facade Engineer, Gensler

Lindsey Telford (Illinois)

Director of Design, Zeller Realty Group

Heather Thomas (Illinois)

Senior Project Manager, Whitney Architects

Paul Thompson (Pennsylvania)

Principal, IEI Architects

Michael Dolce (Maryland)

Owner / Architect, Michael P Dolce AIA Architect

C Michael Donoghue (Texas)

PE, Maritech Engineering, Inc.

Kristen Dotson (Washington)

Sustainability Services Director, The Miller Hull Partnership

Brian Dove (Illinois)

Architect, UrbEn Architecture

Chris Drew (Illinois)

Director of Operations, Adrian Smith + Gordon Gill Architecture

isabelle Duvivier (California)

Principal, Duvivier Architects

Matt Elder (Kansas)

Architectural Marketing

Lisa Elkins (Illinois)

Founder, 2 Point Perspective

Kit Elsworth (Pennsylvania)

Researcher, KieranTimberlake

Kathleen Estelle Trujillo (Illinois)

Founder, K.TRUJI, LLC

Edward Evanich (Illinois)

Project Architect, Pappageorge Haymes Partners

Peter Exley (Illinois)

Director of Architecture, Architecture Is Fun, Inc.

Doug Farr (Illinois)

President, Farr Associates

Ole Fischer (Utah)

Associate Professor, University of Utah Architecture

Michael Flath (Illinois)

Principal, Dirk Denison Architects

David Fleener (Illinois)

Architect, David Fleener Architects

Taylor Franz (Illinois)

Architect, Krueck + Sexton Architects

Eric Corey Freed (Oregon)

Senior Vice President, Sustainability, CannonDesign

Jose Galarza (Utah)

Assistant Professor, University of Utah

Knut Menden

Architect, Betti & knut architecture

Nancy Merryman (Oregon)

Principal and President, Merryman Barnes Architects

Alison Miller (Washington)

Owner, Alison Miller Architect LLC

Dan Miller (Illinois)

President, Owner, Dan Miller Architects Ltd

Mark A. Miller (Illinois)

Owner, Mark A. Miller Architects/Builders Inc.

Howard Mock (Illinois)

Founder, MPHMP Design

Skylar Moran (Illinois)

Project Manager, STR Partners

Alyssa Murphy (New Hampshire)

Principal, Placework

Alison Musch (Utah)

Project Coordinator, VCBO Architecture

Diane Nakis (Illinois)

Billing Specialist, Whitney Architects, Inc.

Laura Natkins (California)

Principal, Natkins Architect

Thomas Nelson (California)

Associate Principal, BAR Architects

Mike Newman (Illinois)

Principal, SHED Studio

Elizabeth Nguyen (New Hampshire)

Project Manager, Placework

Kennth Nichol (Illinois)

Accounting Manager, Whitney Architects, Inc.

Jim Nicolow (Hawaii)

Director of Sustainability, Lord Aeck Sargent

Kim Nigro (Illinois)

Principal, Studio Nigro Architecture + Design

Emily Tjeerdsma (Illinois)

Partner | Architect, 2 Point Perspective

Georgi Todorov (Illinois)

Senior Project Architect, Pappageorge Haymes Partners

Brianne Tomlin (Washington)

Senior Associate, Integrus Architecture

H. Louis Tooker (Alabama)

Sr. Project Manager, City of Mobile Architectural Engineering

Cheryl Tougias (Massachusetts)

Principal, Spalding Tougias Architects, I

John Valle (California)

Architect, JVARCHITECTURE

Caroline VanHarmelen

Architect,

Serdar Vardar (New York)

Architect, C3D Architecture LLC

Richard Wagner (Oregon)

Owner-Architect, Richard Wagner Architect

Tate Walker (Minnesota)

Director of Sustainability, OPN Architects, Inc.

George Watt (Colorado)

architect, watt architecture

Ron Weber (Illinois)

Associate, Pappageorgehaymes.com

Jane Weinzapfel (Massachusetts)

Principal, Leers Weinzapfel Associates Architects, Inc.

Farleigh Winters (Washington)

Architect, LSW Architects

Andrew Witek (Illinois)

Project Coordinator, Holabird & Root

Hayley Wrubel (California)

Marketing Director, Van Meter Williams Pollack

Ian Wylie (Illinois)

Lead, Developing Sustainment Inc.

Silja Yanz (Illinois)

Associate, Whitney Architects

Peter Gang (California)

PP, Common Sense Design

Ryan Gann (Illinois)

Designer, Ross Barney Architects

Courtney Gascoigne (Illinois)

Designer, Whitney Architects, Inc.

Debra Gerod (California)

Partner, Gruen Associates

Carrie Gerstenberger

Specifier, Bassetti Architects

Marcy Giannunzio (Virginia)

Principal, DIAG Studios

Anjali Grant (Washington)

Principal, Anjali Grant Design LLC

Ellen Grimes (Illinois)

Assoc. Professor, SAIC

Jan Noethe (Oregon)

Architect, Jan E. Noethe Architecture

Conor O'Shea (Illinois)

Founder, Hinterlands Urbanism and Landscape

Robert Oppenborn (Illinois)

Principal, Whitney

Ryan Ornberg (Illinois)

Designer, Krueck + Sexton Architects

Mic Patterson (California)

Ambassador of Innovation & Collaboration, Facade Tectonics Institute Inc

Alison Pavidonis (Virginia)

Architect, Gensler

Marjanne Pearson (California)

Chief, Talentstar, Inc.

khairuz zaman (Illinois)

Architect/Builder, Z Works Design Build

Courtney Zastrow (Illinois)

Design Manager, Whitney Architects

David Zilmer (Illinois)

President, Z Design-Build Group Inc

Thomas Zurowski (Illinois)

President, Eastlake Studio

212 members

[Environmental Entrepreneurs](#) • www.e2.org • facebook.com/e2.org • [@e2org](https://twitter.com/e2org)

Mid-Atlantic • Midwest • New England • New York • Northern California • Pacific Northwest • Rocky Mountains • San Diego • Southern California