

**20
21**

Annual Report



A Message from the Chairman

Dear Friends,

The past year demonstrated just what Aii was created to do – make real impacts on the world and produce content of the highest quality with creative thinking, hard work, and dedication by the entire team. It is an honor to serve on the board and a pleasure to provide an update in this report.

With the support of a diverse group of donors from across the spectrum of industries and backgrounds, Aii generated three white papers, nine policy briefs, and over 65 policy blogs. Aii articles can also be found in a dozen media publications in the last year. These included industry magazines and journals, national and state newspapers, and industry reports. In fact, Aii was cited more than 600 times in a significant damage prevention study commissioned by the Infrastructure Protection Coalition in its inaugural report.

The Aii team grew by four, with the addition of two staffers and two new board members during 2021. With a stronger team than ever, Aii launched two new original campaigns focused on monthlong education: Modern Roots March and August Energy Month.

Through these powerful and creative campaigns, Aii showcased original research, graphics, and educational resources to elevate America's energy and infrastructure IQ and to provide critical resources to the public, policymakers, and industry leaders.

With all the team has accomplished, Aii is in a strong position heading into 2022. We could not be more appreciative of the support of our donors, subscribers, and coalition networks for helping us as we work to improve the nation's infrastructure, public safety, and overall excellence nationwide.



Chris Kilgore

Chairman of the Board

Alliance for Innovation and Infrastructure

Public Institute for Facility Safety

National Infrastructure Safety Foundation

Organization Profile



WHO WE ARE

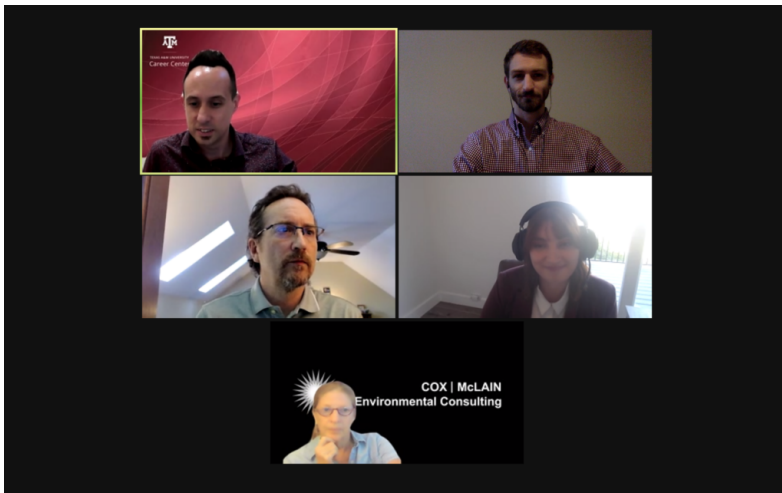
The Alliance for Innovation and Infrastructure (Aii) is an independent, national research and educational organization dedicated to identifying our nation's infrastructure needs, creating awareness of those needs, and finding solutions to critical public policy challenges. Aii strives to promote proven, innovative technology and higher safety standards in a non-partisan manner to achieve excellence nationwide.

The Alliance is a think tank consisting of two non-profits: the National Infrastructure Safety Foundation (NISF), a 501(c)(4) social welfare organization, and the Public Institute for Facility Safety (PIFS), a 501(c)(3) educational organization. Both non-profits are legally governed by volunteer boards of directors. These work in conjunction with the Alliance's own volunteer Advisory Council. To learn more visit Aii.org.



“ ”

Infrastructure innovation
through awareness and
education.



Aii in Action



Aii By the Numbers



Articles

3 White Papers

9 Policy Briefs

13 Appearances in
National Publications

68 Policy Blogs

2 Original Educational Campaigns

40+ State and Federal
offices engaged



Activities



Audience

17,000+ Unique Site Views

21,000+ Total Site Views

10,000+ Unique Site Visitors

Modern Roots March



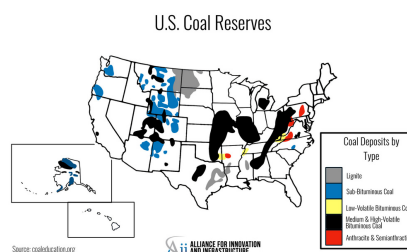
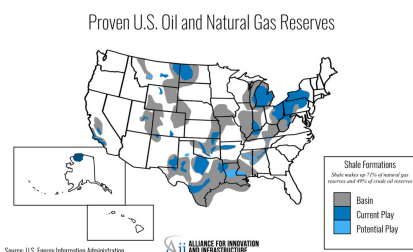
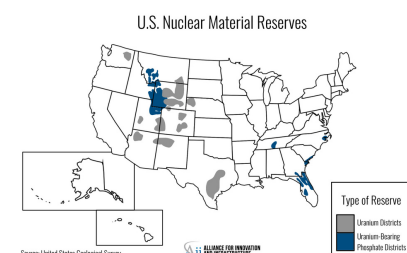
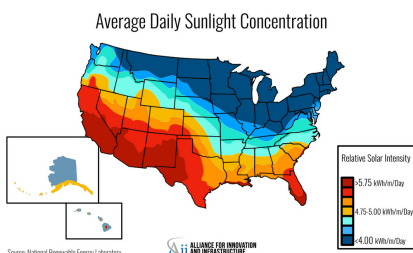
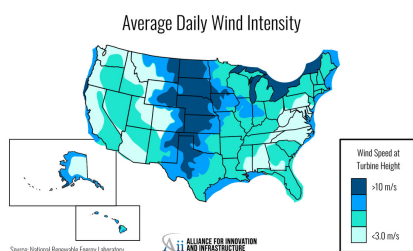
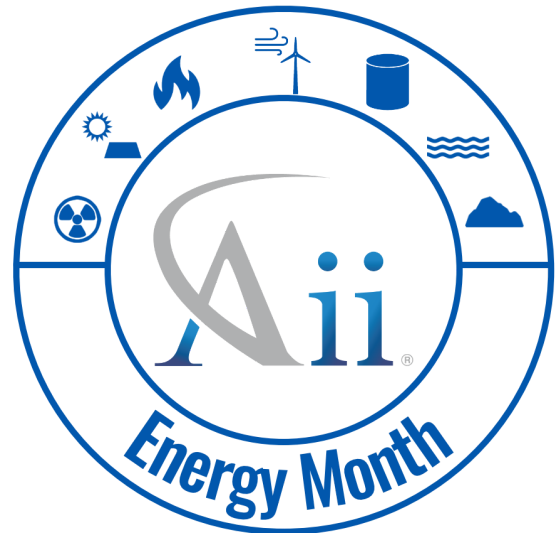
This year, Aii launched its first #ModernRootsMarch educational series. The series educated on the crucial components of subterranean infrastructure and how to recognize new aspects of infrastructure through policy blogs, infographics, and educational videos.



August Energy Month

During the month of August, Aii educated on the importance of energy resources to the nation and the world. Throughout the month, we highlighted the seven primary natural and energy resources used to generate electricity in the United States.

New content and briefs were uploaded to this page throughout Energy Month. Stay tuned for next year as we refresh the page with the latest available data for 2021.



Introduction

America generates energy from a number of sources. At its most basic level, each source turns a turbine to generate electricity. That power is then fed into the electrical grid to be distributed to homes and businesses. America consumes 4 trillion kilowatt hours (kWh) of electricity per year. The energy mix to generate this electricity is a blend of public policy and private action. Hydropower was used to generate 7.3 percent of America's electricity in 2020.

This policy brief will outline eight key factors that shape the current and future utilization of hydropower for American energy needs. To help build a comprehensive picture of hydropower's energy outlook, this brief will examine its energy density, costs to generate energy, availability and reserves, land needs, overall safety record, climate impact, long-term impact, and potential limitations of the energy source.

Basics of Hydropower

Hydropower collects energy from the natural flow of water in rivers, waterfalls, and other bodies of water that possess enough enough energy. Water has been utilized as a source of kinetic energy for millennia, with ancient civilizations even using water to power small-scale grain processing. Today, hydropower has the capability to be a major energy source for both inland and coastal areas.

Hydropower can take several different forms, but the process of harnessing the energy is largely the same. Water possesses potential energy when it is about to spill over a high point or travel downhill. Hydropower plants harness the kinetic energy as water flows downhill by using the water to rotate turbines, which in turn generate electricity.

The three different types of hydroelectric energy generation are impoundment, diversion, and pumped-storage facilities. Impoundment facilities usually are large dams that store river water in a reservoir, which is released to flow through a series of turbines that activate generators, producing electricity. A diversion facility channels a river or other large body of water through a penstock, or a downstream channel, where it collides with turbines, producing energy. Pumped-storage facilities are a form of energy storage for other sources of energy for future use. By pumping water uphill to a high elevation, it stores energy for times when energy demand is high. When released from this higher elevation, large amounts of energy can be generated.

Board of Directors

The Board of Directors is committed to pursuing bi-partisan problem-solving and collaboration, and includes professionals with management and policy expertise in a wide variety of public service, non-profit, and private enterprise including military service, law, cybersecurity, and more. With a range of views and experiences, the board fosters intentional discourse and seeks to learn from others' perspectives on public policy.



Mandy Gunasekara

Mandy is a veteran climate and energy strategist, communicator, and environmental attorney who has a well-earned reputation for delivering results. She most recently served as the Chief of Staff for the EPA during the Trump-Pence administration.



Scott Harper

An experienced attorney, Scott is a founding partner in the Dallas-based firm Harper Bates & Champion, where he focuses on innovation, technology, and intellectual property law.



Chris Kilgore

Chris has been practicing law throughout the United States for nearly 30 years. During that time, he has been a member and managing partner at several law firms where he practiced primarily in the field of aviation and transportation law and litigation.



Jack Reape

Jack Reape is a Texas-based leadership and management consultant, operations troubleshooter, and project manager. His areas of expertise include aviation operations, risk management, and connecting well-led teams for defined success.



Robert Sumwalt

Robert currently serves as the executive director of the Center for Aviation and Aerospace Safety at Embry-Riddle Aeronautical University. The former Chairman of the NTSB, Robert is a fierce advocate for improving safety across all modes of transportation.



Dave Venable

A former intelligence officer with the National Security Agency, David has extensive experience in Computer Network Exploitation, Information Operations, and Digital Network Intelligence, and cryptography.

Looking Ahead

“ ”

After seven years of research and educational efforts, Aii is poised to be more impactful than ever. **We have plans not only to engage more local, state, and national policymakers, but to add new issue areas to our field of study.** Entering the year with concerns over inflation, supply chains, and climate, Aii is particularly well situated to promote best practices, provide education, identify challenges, and propose solutions.

- Aii Director of Public Policy
Benjamin Dierker





ALLIANCE FOR INNOVATION AND INFRASTRUCTURE

3033 Wilson Blvd Suite 700
Arlington, Virginia 22201



@AiiNonProfit

