



Energy Transition Summit

Boston, MA

October 6, 2022

Today's Agenda

12:00 – 1:30 pm	Lunch featuring Keynote Discussion with Dr. Ernest Moniz, President/CEO, Energy Futures Initiative and former U.S. Secretary of Energy (2013-2017)
1:30 – 2:00 pm	Fireside Chat with Phil Giudice, Board Chair, FirstLight Power, Secretary of Energy Advisory Board Member (DOE) and former Special Assistant to the President for Climate Policy (2021) and Paul Dickerson, Member, Mintz
2:00 – 3:00 pm	Early-Stage Panel <ul style="list-style-type: none"> • Speaker Tadeu Carneiro, Chairman & CEO, Boston Metal • Speaker Sean O'Day, President, Co-Founder & CCO, TitanAES • Speaker Kevin Skillern, Managing Partner, Energy Innovation Capital • Speaker Milo Werner, General Partner, The Engine • Moderator Kevin Knobloch, President, Knobloch Energy LLC
3:00 – 3:15 pm	Coffee and Networking Break
3:15 – 3:45 pm	Fireside Chat with Anne Levin-Nussbaum, Member, Mintz, Courtney Taylor, Senior Vice President, ML Strategies, and Tom Burton, Chair, Energy & Sustainability Practice - The Inflation Reduction Act (IRA) of 2022 and Energy Transition Financing
3:45 – 4:45 pm	Scaling Growth Panel <ul style="list-style-type: none"> • Speaker Dan Coyne, Co-Head, U.S. Investment Banking and Global Head, Sustainability Investment Banking, Canaccord Genuity LLC • Speaker Jon Guerster, Partner, Activate Capital • Speaker Jeff Hendler, Chief Executive Officer, Logical Buildings • Speaker Ted Smith, President & COO, Nuvve Holding Corp. • Speaker Donald Young, President & CEO, Aspen Aerogels, Inc. • Moderator Sahir Surmeli, Co-Chair, Energy & Sustainability Practice, Mintz
4:45 – 5:15 pm	Fireside Chat with Ruth Hupart, Climate Business Strategy Officer and Carbon Capture Lead, International Finance Corporation (IFC) and Jacob Hupart, Member, Mintz
5:15 – 5:30 pm	Coffee and Networking Break
5:30 – 6:30 pm	At-Scale Finance Panel <ul style="list-style-type: none"> • Speaker George Bilicic, George Bilicic // Vice Chairman of Investment Banking, Global Head of Power, Energy & Infrastructure, Lazard • Speaker Jorge Centeno, Investment Director, InfraRed Capital Partners • Speaker Christopher Lafley, Director, Structured Finance, TotalEnergies Renewables USA, LLC • Speaker Shu Takeoka, Vice President & General Manager, Sojitz Corporation of America, Inc. • Moderator Ayaz Shaikh, Chair, Projects & Infrastructure Practice, Mintz
6:30 – 8:30 pm	Networking Cocktail Reception featuring a discussion on “Global Trends in Clean Tech Patent Data” with Brad M. Scheller, Member, Mintz An opportunity for attendees to converse with speakers and colleagues over cocktails and hors d'oeuvres.

Welcome



Thomas Burton III
Chair, Energy & Sustainability Practice

Keynote Discussion



Dr. Ernest Moniz

President/CEO, Energy Futures Initiative and former
U.S. Secretary of Energy (2013-2017)

Fireside Chat



Phil Giudice

Board Chair, FirstLight Power, Secretary of Energy Advisory Board
Member (DOE) and former Special Assistant to the President for Climate
Policy (2021)



Paul Dickerson

Member, Mintz

Early-Stage Panel



Tadeu Carneiro
Chairman & CEO
Boston Metal



Kevin Skillern
Managing Partner
Energy Innovation
Capital



Kevin Knobloch
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Fireside Chat

The Inflation Reduction Act (IRA) of 2022 and Energy Transition Financing



Anne Levin-Nussbaum
Member, Mintz



Thomas Burton III
Chair, Energy & Sustainability
Practice



Courtney Taylor
Senior Vice-President, ML
Strategies

Scaling Growth Panel



Dan Coyne
Co-Head, U.S.
Investment Banking &
Global Head,
Sustainability
Investment Banking
Canaccord Genuity LLC



Jeff Hendler
Chief Executive
Officer
Logical Buildings



Donald Young
President & CEO
Aspen Aerogels, Inc.



Jon Guerster
Partner
Activate Capital



Ted Smith
President & COO
Nuvve Holding
Corp.



Sahir Surmeli
Co-Chair, Energy
& Sustainability
Practice
Mintz

Fireside Chat



Ruth Hupart

Climate Business Strategy Officer & Carbon
Capture Lead International Finance
Corporation (IFC)



Jacob Hupart

Member, Mintz

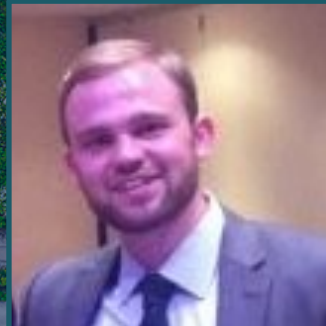
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At-Scale Finance Panel



George Bilicic
Vice Chairman of
Investment Banking,
Global Head of
Power, Energy &
Infrastructure,
Lazard



Christopher Lafley
Director, Structured
Finance
TotalEnergies
Renewables USA,
LLC



Ayaz Shaikh
Chair, Projects &
Infrastructure
Practice
Mintz



Jorge Centeno
Investment
Director
InfraRed Capital
Partners



Shu Takeoka
Vice President &
General Manager
Sojitz Corporation
of America, Inc.



Please Join Us for Cocktails & Networking



Global Trends in Clean Tech Patent Data



Brad Scheller
Member, Mintz

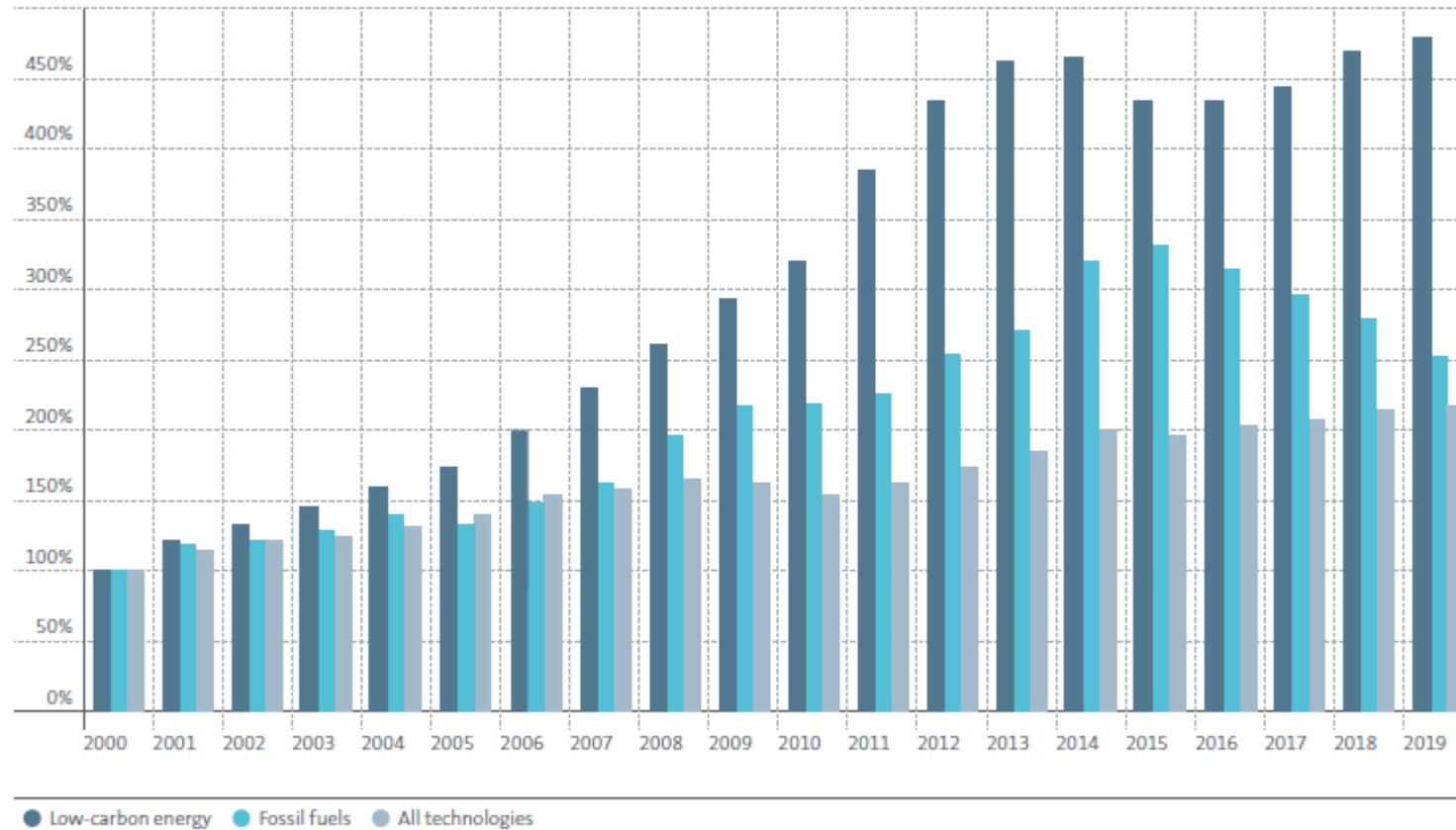
An aerial photograph showing a large solar farm with numerous rows of blue solar panels installed in a field. A winding road or path runs through the middle of the solar panels. The foreground and background are filled with dense green trees, suggesting a forested area surrounding the solar farm.

Trends in Clean Energy Tech Based on Patent Data

Innovation has Resumed Growth Since 2017

Figure KF1

Global growth of IPFs in low-carbon energy technologies versus (i) fossil fuel technologies and (ii) all technologies, 2000-2019 (base 100 in 2000)



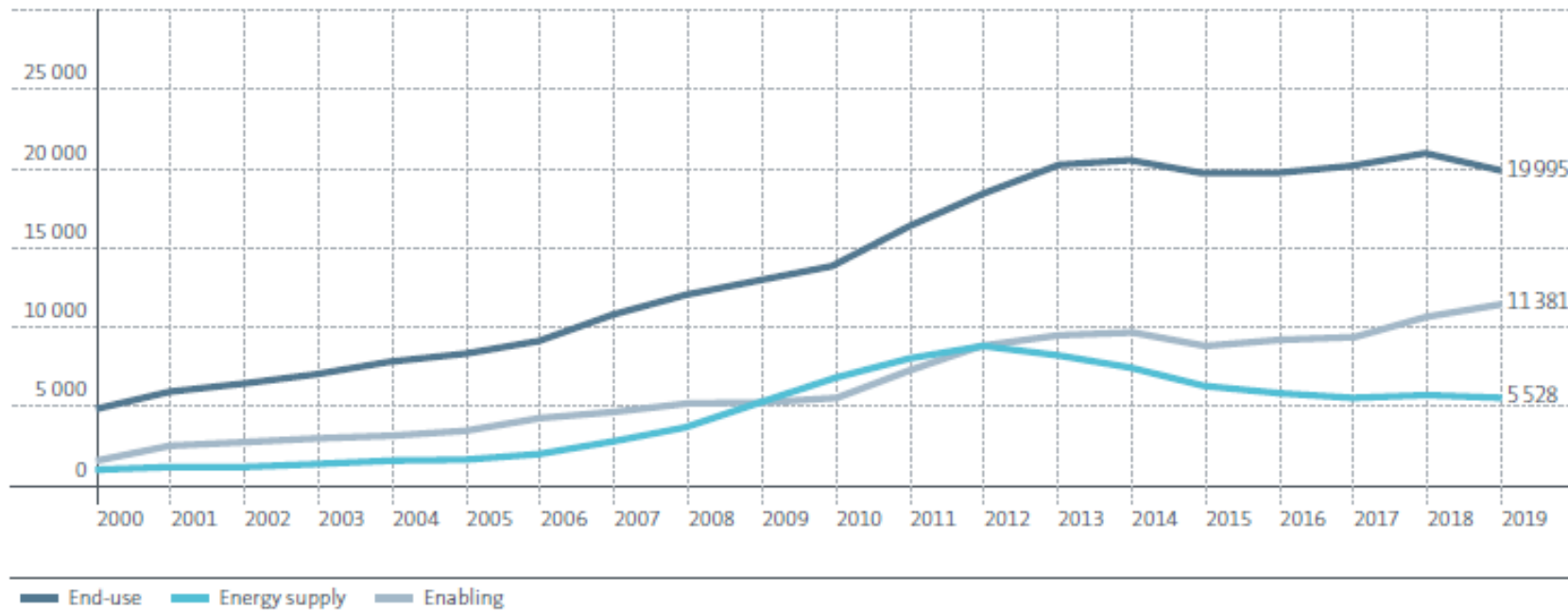
Source: European Patent Office

Innovation is Shifting from Supply to End-Use and Enabling Technologies

- End-Use: fuel-switching and energy efficiency technologies
- Enabling: batteries, hydrogen, smart grids, and carbon capture, utilization, storage (CCUS)

Figure KF2

Global growth of IPFs in clean energy supply, enabling and end-use technologies, 2000-2019

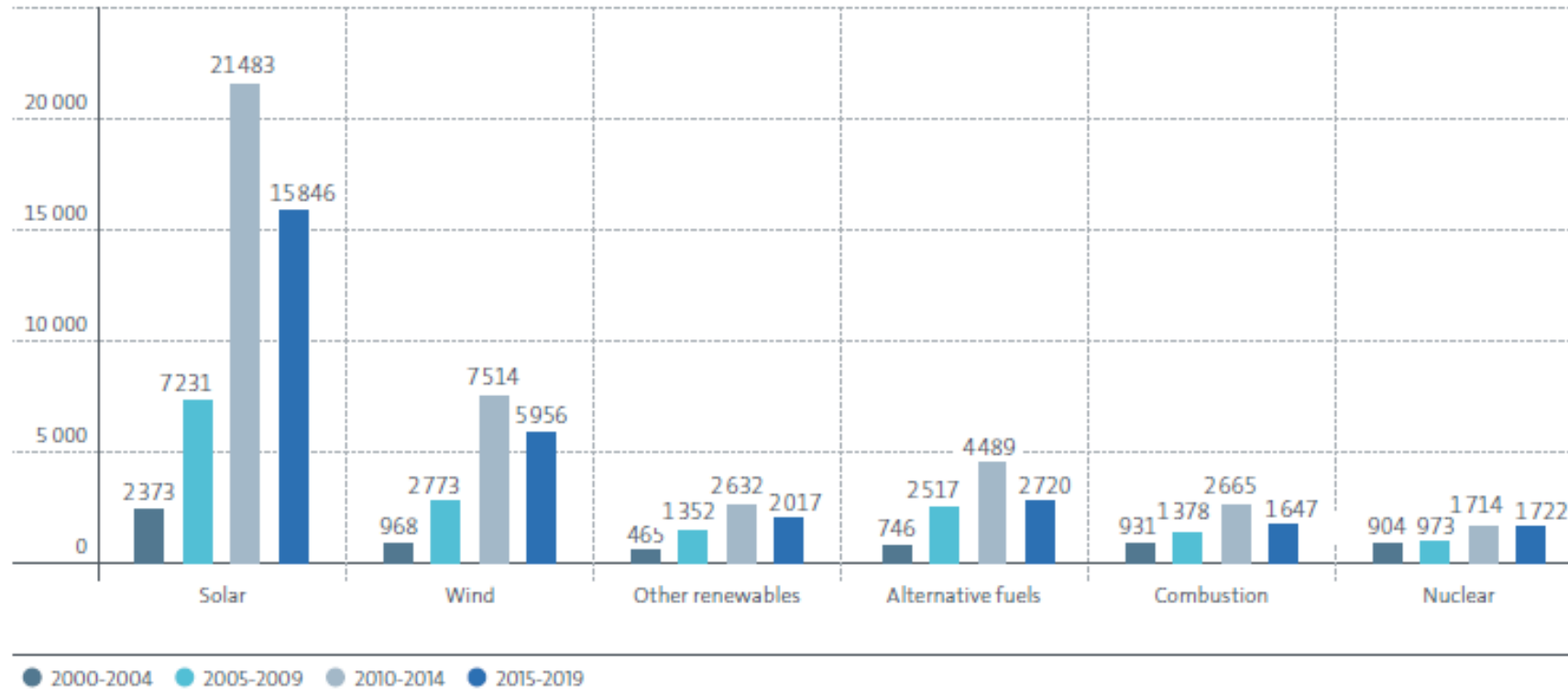


Source: European Patent Office

- Energy supply technologies peaked in 2010 – 2014

Figure 3.1

Growth of IPFs in energy supply technologies, 2000-2019

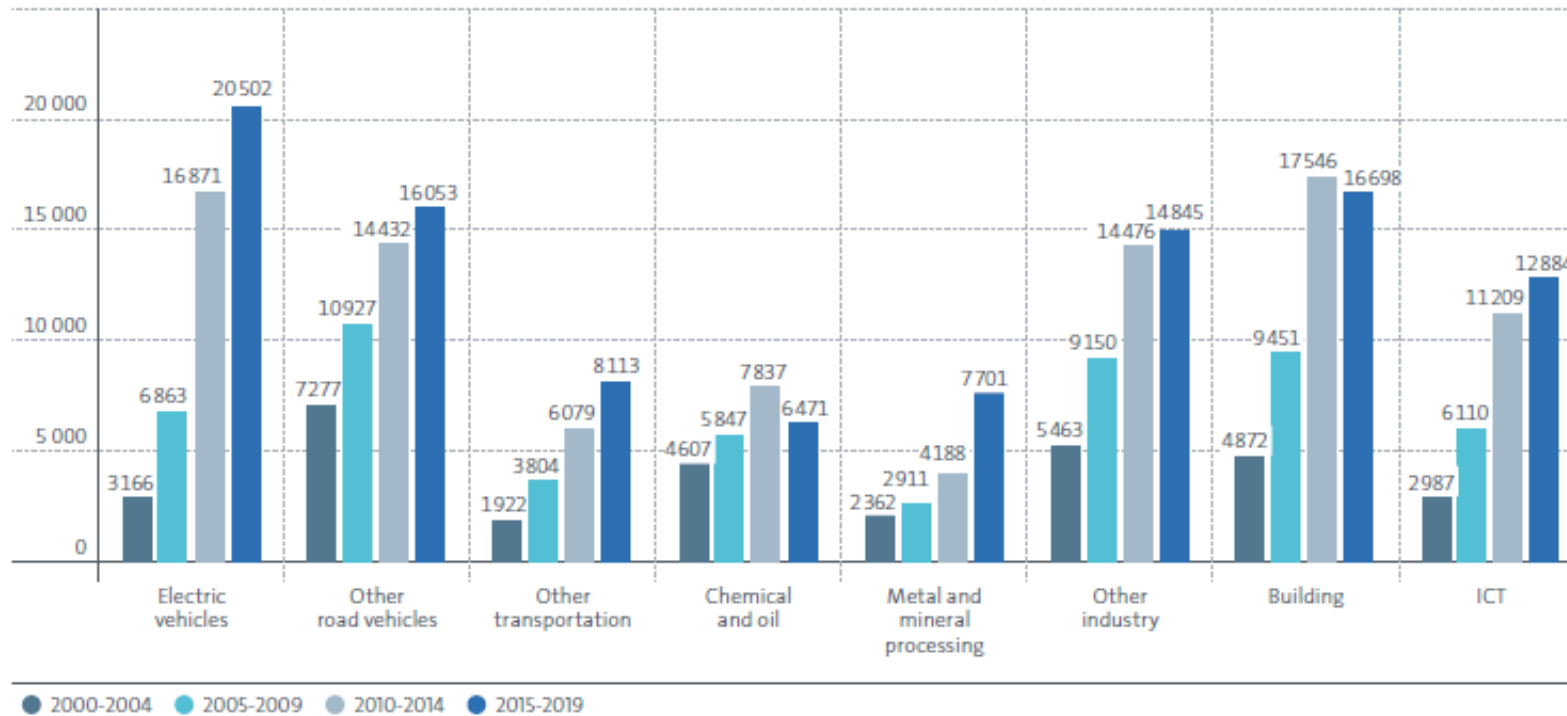


Source: European Patent Office

- End-use technologies, particularly in electric vehicles, leads the energy transition in modern times

Figure 3.4

Growth of IPFs in end-use technologies, 2000-2019

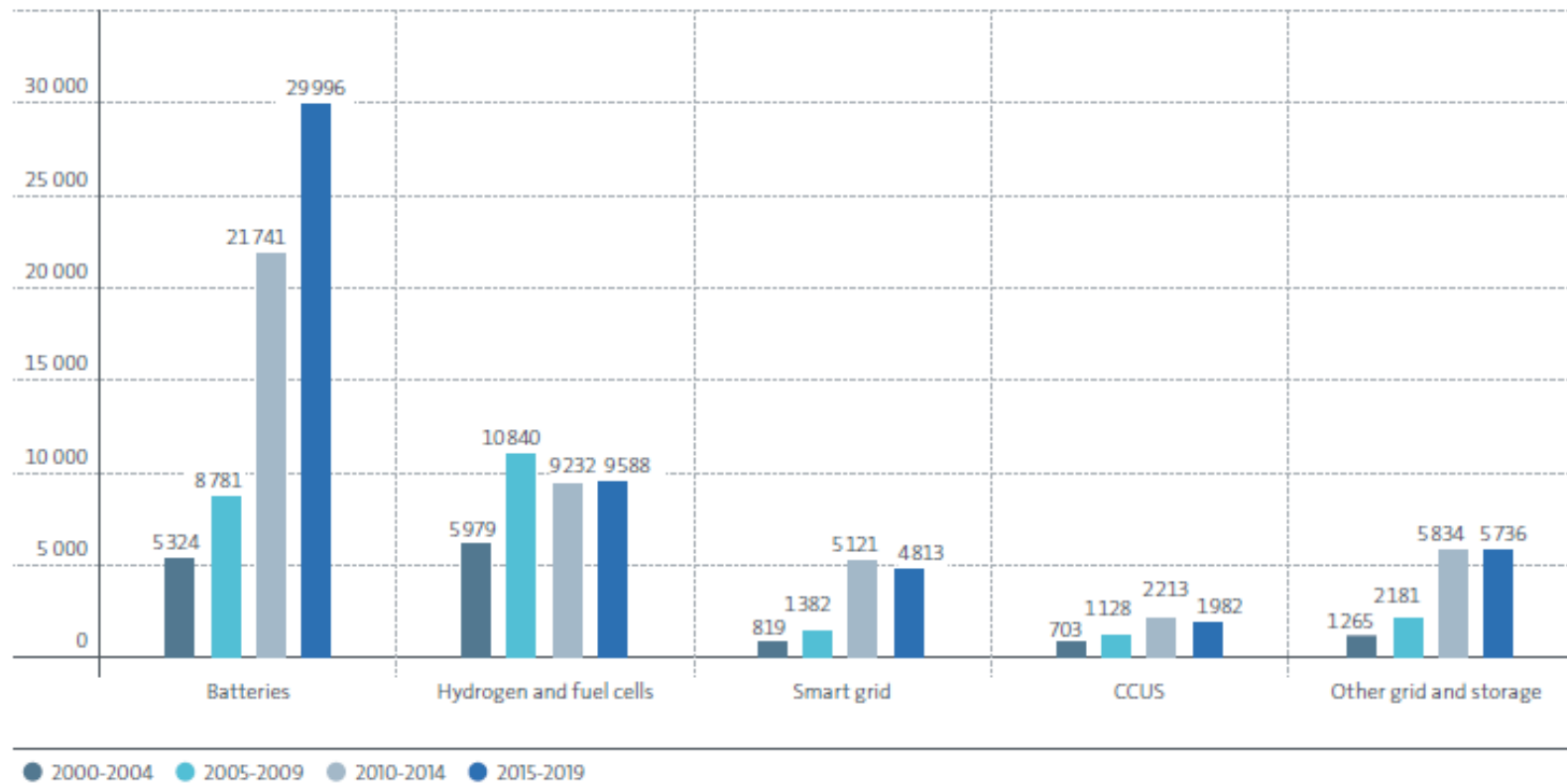


Source: European Patent Office

- Enabling technologies, particularly in batteries, leads the energy transition in modern times

Figure 3.5

Growth of IPFs in enabling technologies, 2000-2019

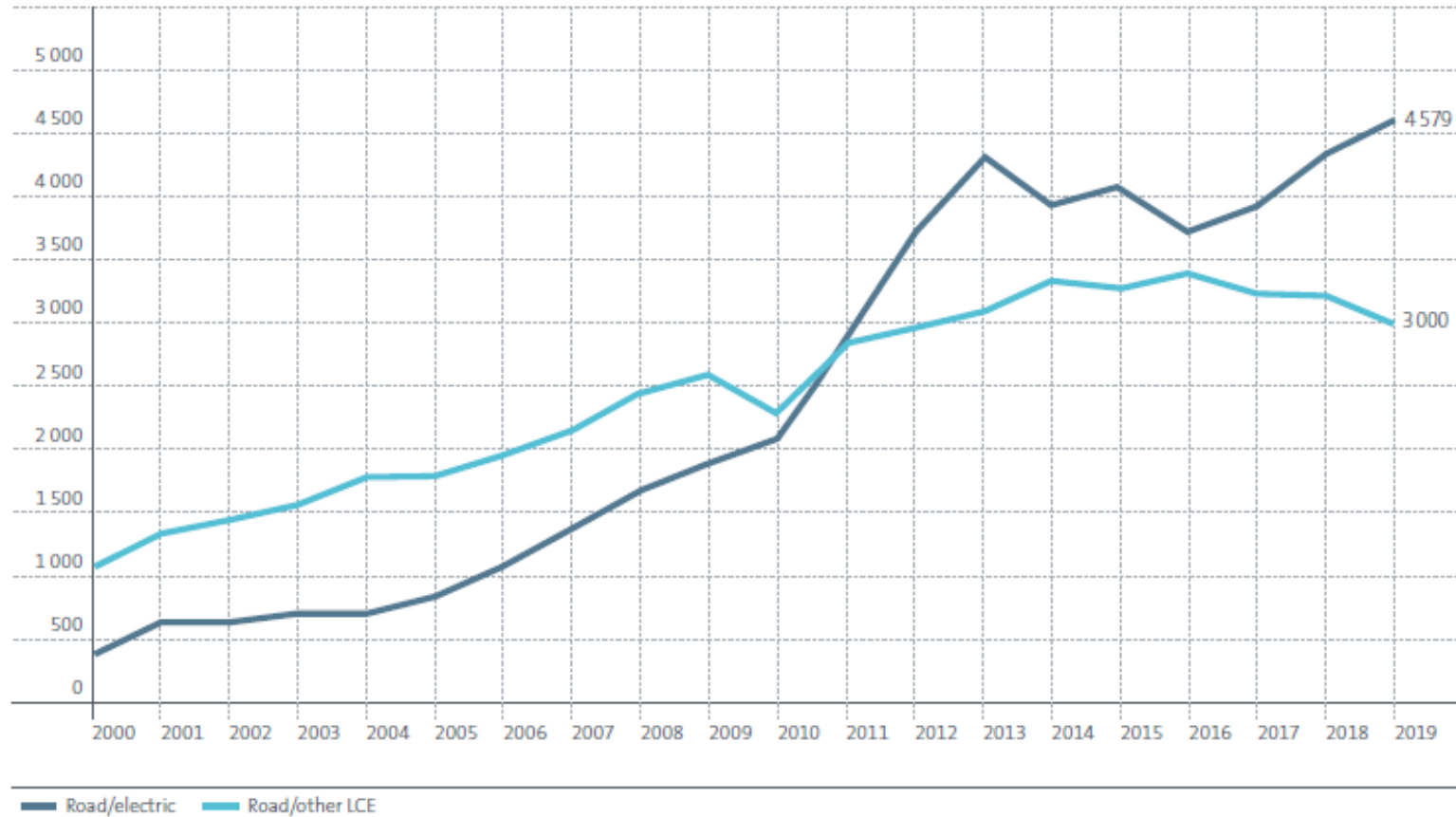


Source: European Patent Office

Electric Vehicles are Driving the Dominance of Clean Energy Technologies

Figure KF3

Global growth of IPFs in electric vehicles versus other LCE technologies for road transportation, 2000-2019



Source: European Patent Office

Most Active Countries in Clean Energy Technology

- **Europe**

- since 2000, Europe has consistently led patenting activities in the clean energy space with 28% of all international patent families in the period 2010-2019

- **Japan**

- since 2010, Japan has been second with 25% of all international patent families
- world leader in batteries and hydrogen, which translates into an advantage in EVs

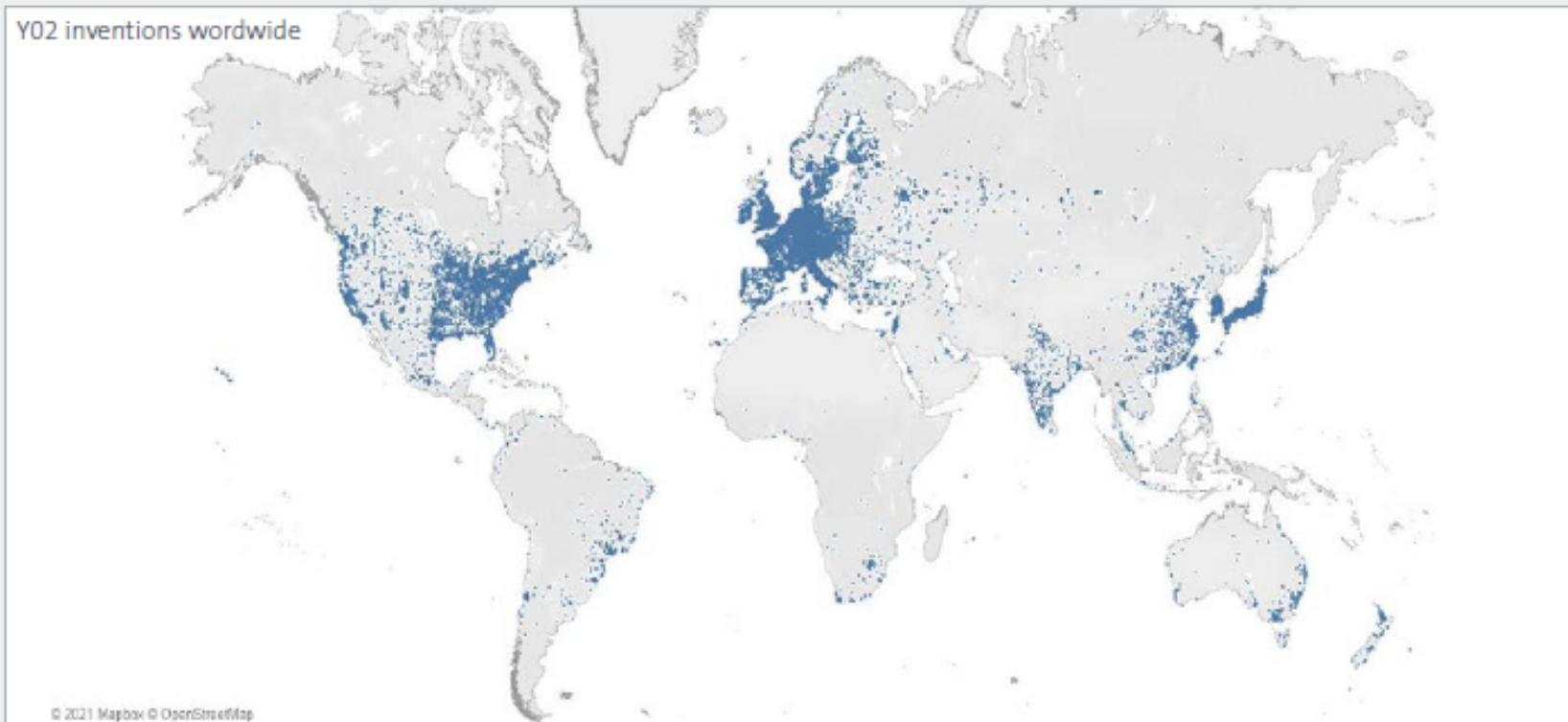
- **United States**

- third behind Japan with 20% of all international patent families
- strong specialization in fossil fuel technologies and low-carbon combustion and related end-use sectors such as aviation

Geographic Concentrations of Clean Energy Innovation

Figure 4.3

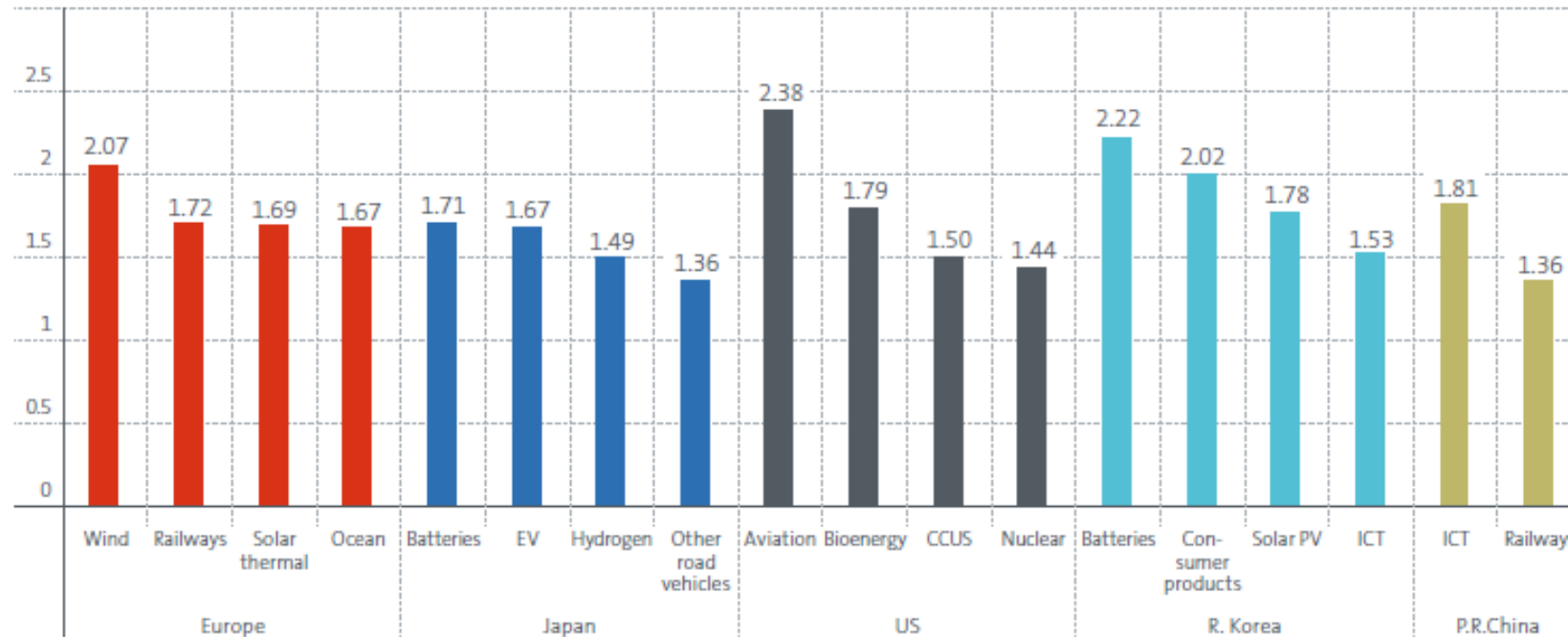
Geographical origins of IPFs related to LCE technologies, 2000-2018



Most Active Countries in Clean Energy Technology – Specializations

Figure KF4

Main revealed technology advantages (RTAs) of global innovation centres



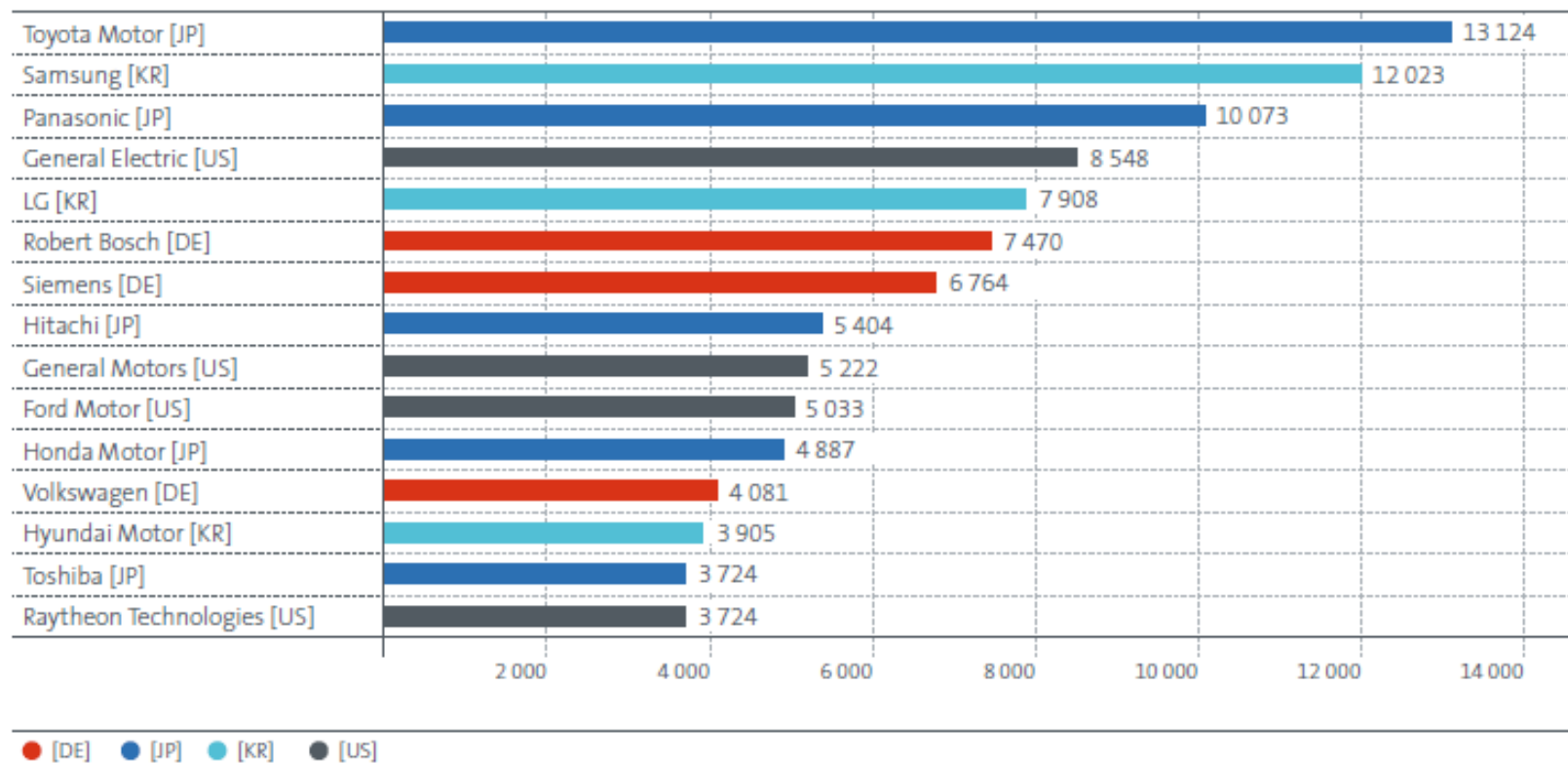
Source: European Patent Office

Notes: The revealed technology advantage (RTA) index indicates a country's specialisation in terms of LCE technology innovation relative to its overall innovation capacity. It is defined as a country's share of IPFs in a particular field of technology divided by the country's share of IPFs in all fields of technology. An RTA above one reflects a country's specialisation in a given technology. Only the highest RTAs (approximately 1.5 or more) are reported in the chart.

Most Active Companies in Clean Energy Technology

Figure 4.4

Top 15 applicants in LCE technologies, 2000-2019



Source: European Patent Office



Recent Initiatives at U.S. Patent and Trademark Office (USPTO)

USPTO Seeking to Reinvigorate Clean Energy Innovation

- **USPTO joins WIPO GREEN as Technology Partner**

- WIPO GREEN:

- provides an online platform for technology exchange
- connecting providers and seekers of technologies
- organizes projects, conferences and international events that highlight the availability of green technologies
- GOAL—increase investment and deployment of environmentally-friendly solutions to combatting climate change
- 145 international technology partners, including major technology companies
- <https://www3.wipo.int/wipogreen/en/>



- **Climate Change Mitigation Pilot Program**

- last clean energy program was “Green Technology Pilot Program” that ended in 2012
- climate change patent applications only constitute 7% -- 40,000 applications -- of annual patent applications and must be increased
- fast-track review of patent applications that cover a product or process that mitigates climate change by reducing greenhouse gas emissions
- program started June 3, 2022 and ends the earlier of June 5, 2023 or when 1,000 applications have been granted special status under the program



THANK YOU!

An aerial photograph of a large solar farm. The solar panels are arranged in neat, parallel rows across a grassy field. A winding asphalt road runs through the middle of the farm, separating the rows. In the background, there is a dense forest of green trees. The overall scene is bright and clear, suggesting a sunny day.

Meet Today's Speakers



Thomas Burton III Chair, Energy & Sustainability Practice

Tom's global practice focuses on complex corporate finance matters including mergers and acquisitions, venture capital, private equity, securities transactions, and special purpose acquisition companies (SPACs). He represents high-growth and emerging businesses, including companies in the energy and clean technology, social media and software industries, as well as life science companies, from start-ups to public companies.

In 2004, Tom founded, and currently chairs, the firm's Energy & Sustainability Practice. Serving more than 250 clients, spanning the ecosystem from emerging companies to large corporations, venture capital and private equity funds, investment banks, project developers, and family offices, the firm is recognized nationally as a leading law firm in the space. Tom is ranked by *Chambers USA* in the category of Energy & Natural Resources, *Best Lawyers in America* in the Corporate Law section, and he is recognized by *The Legal 500 United States* as "rising to the fore" in energy technology for Venture Capital and Emerging Companies.

On the corporate and securities side, Tom has served as counsel in the structuring and completion of over 400 venture capital and private equity financings, representing both the funds providing the capital and the emerging growth companies seeking funding. His work in this area has raised billions of dollars. He organizes venture capital funds and represents them in their portfolio investments. Tom is also a key contributor to MintzEdge, an online resource for entrepreneurs that includes useful tools and information for starting and growing a company. In addition, he devotes a portion of his practice to counseling social enterprise companies, impact investors, and nonprofit companies.

Tom routinely counsels businesses on their growth and development, advises their boards of directors on corporate governance matters, and participates in an array of transactions, from private and public offerings to mergers and acquisitions, joint ventures, and technology transfer matters. Tom also has experience in advising investment banks in private placements and underwritten public offerings of equity securities, and in their role as financial advisor in mergers and acquisitions.

He applies his background in corporate finance to counsel energy and clean technology companies through all stages of formation, financing, and exits. His energy and clean technology clients span markets such as solar and wind, smart grid and energy efficiency, energy storage, water technologies, waste treatment, biofuels, electric vehicles, and green buildings.

To contact Tom, please reach out to him at +1.617.348.3097 of TRBurton@mintz.com.



Dr. Ernest Moniz President/CEO, Energy Futures Initiative and former U.S. Secretary of Energy (2013-2017)

Dr. Ernest Moniz served as United States Secretary of Energy from May 21, 2013 to January 19, 2017. As Secretary of Energy, he was tasked with implementing critical Department of Energy missions in support of President Obama's goals of growing the economy, enhancing security and protecting the environment. This encompassed advancing the President's all-of-the-above energy strategy, maintaining the nuclear deterrent and reducing the nuclear danger, promoting American leadership in science and clean energy technology innovation, cleaning up the legacy of the cold war, and strengthening management and performance.

Prior to his appointment, Dr. Moniz was the Cecil and Ida Green Professor of Physics and Engineering Systems at the Massachusetts Institute of Technology (MIT), where he was a faculty member since 1973. At MIT, he headed the Department of Physics and the Bates Linear Accelerator Center. Most recently, Dr. Moniz served as the founding Director of the MIT Energy Initiative and as Director of the MIT Laboratory for Energy and the Environment where he was a leader of multidisciplinary technology and policy studies on the future of nuclear power, coal, nuclear fuel cycles, natural gas and solar energy in a low-carbon world.

From 1997 until January 2001, Dr. Moniz served as Under Secretary of the Department of Energy. From 1995 to 1997, he served as Associate Director for Science in the Office of Science and Technology Policy in the Executive Office of the President.

In addition to his work at MIT, the White House and the Department of Energy, Dr. Moniz has served on a number of boards of directors and commissions involving science, energy and security. These include President Obama's Council of Advisors on Science and Technology, the Department of Defense Threat Reduction Advisory Committee, and the Blue Ribbon Commission on America's Nuclear Future.

A member of the Council on Foreign Relations, Dr. Moniz is a Fellow of the American Association for the Advancement of Science, the American Academy of Arts and Sciences, the Humboldt Foundation, and the American Physical Society.

Dr. Moniz received a Bachelor of Science degree summa cum laude in Physics from Boston College, a Doctorate in Theoretical Physics from Stanford University, and honorary degrees from the University of Athens, Boston College, Boston University, the University of Erlangen-Nuremberg, Iowa State University, University of Massachusetts Dartmouth, Michigan State University and Universidad Pontificia de Comillas. He has been awarded the Distinguished Public Service Medal of the Department of Defense, and the Grand Cross of the Order of Prince Henry the Navigator.



Phil Giudice

Board Chair, FirstLight Power,
Secretary of Energy Advisory
Board Member (DOE) and former
Special Assistant to the President
for Climate Policy (2021)

Phil is a former Massachusetts Undersecretary of Energy and Commissioner of Energy Resources; a current director of the Northeast Clean Energy Council and advisory board member of the Union of Concerned Scientists; and a former executive and director for energy innovation startups Ambri, EnerNOC (now EnelX), FirstFuel (now Uplight), and Nexus (now Aclara).

During his more than 40 years of experience in the energy field, Mr. Giudice has also served as founding board member, Treasurer and Vice Chair for the Regional Greenhouse Gas Initiative (RGGI), board chair of the National Association of Energy Officials as well as on US Department of Energy's State Energy Advisory Board, Energy Efficiency and Renewables Advisory Committee and State Energy Efficiency Action Network.

A geologist by training, Phil earned his Masters in Business Administration from the Tuck School at Dartmouth College, Masters in Economic Geology from the University of Arizona, and Bachelors in Geology from the University of New Hampshire.



Paul Dickerson Member, Mintz

For over two decades, Paul has advised venture capital and private equity investors, along with their portfolio companies, across all industries as they seek to scale their businesses.

Paul's work in energy includes having served as the Chief Operating Officer for the US Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE). While overseeing the EERE's \$2 billion budget, he managed the international commercialization of advanced energy solutions like biofuels, solar, wind, and efficiency technologies. He also served as Chief of Staff for the United States and Foreign Commercial Service at the US Department of Commerce. While at the Commerce Department, Paul was responsible for day-to-day management of the Commercial Service's worldwide network of 1,700 employees in 260 offices and for directing the implementation of the Commercial Service's worldwide priorities and policies.

Prior to joining Mintz, Paul served as a partner in an international law firm, where he founded that firm's energy technology practice in 2008.

To contact Paul, please reach out to him at [+1.617.542.6000](tel:+16175426000) or PHDickerson@mintz.com.

Early-Stage Panel



Tadeu Carneiro // Chairman & CEO, Boston Metal

Tadeu is the Chairman and CEO at Boston Metal. He brings 40 years of metal industry leadership and technology experience to Boston Metal. As CEO of CBMM (80% global market share for niobium) he grew revenue from \$100M to over \$2B. In his 30 years with CBMM, Tadeu led a global strategy that grew the niobium market by over 8x through a rigorous program of customer-focused application and technology development. Tadeu is the lead independent director at Ivanhoe Mines (copper, zinc, nickel, and platinum group metals). He is an invited lecturer at the Department of Material Science and Engineering at MIT. Tadeu recently joined the advisory board of the Brigham and Women's Hospital Heart and Vascular Center in Boston, MA.



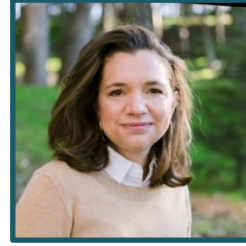
Sean O'Day // President, Co-Founder & COO, TitanAES

Sean is a successful entrepreneur with an extensive background across multiple business verticals from traditional manufacturing, e-commerce, utility and grid-scale solar/storage to advanced battery management technology. In 2016 he co-founded Titan and has served as the CCO and President since. Titan develops and deploys revolutionary, ultrasound-based technologies to diagnose and actively manage lithium-ion batteries in battery factories, electric vehicles, laptops, phones, energy storage systems and battery recycling. Sean's endeavors have been focused on solving the challenge of deploying cost-effective, energy storage solutions for renewable energy generation combined with utility-scale energy storage to meet global sustainable energy demands. Previously, Sean was a partner and investor, and he served as the Director of the Future Solutions Division of Sonnedix, a global solar independent power producer.



Kevin Skillern // Managing Partner, Energy Innovation Capital

Kevin's more than 25-year career has focused on investing and strategy development in the global energy industry. He is a Managing Partner and co-founder of Energy Innovation Capital, a VC firm focused on technologies transforming the energy and resource intensive industries. Previously, he led GE's program investing in emerging technology companies in the Energy industry from 2005 through 2013 and led a joint \$300 million fund with ConocoPhillips and NRG Energy. Kevin's prior career focused on the O&G sector, including key roles in about 15 private equity and debt investments, and 9 years as a strategy consultant with Booz Allen Hamilton. Kevin has an MBA from Stanford University and a B.S. in Electrical Engineering from the University of Texas at Austin.



Milo Werner // General Partner, The Engine

Milo Werner is a General Partner at The Engine. She serves as a Board Member for Mori, Atlantic Quantum and Foundation Alloy. Previously, she was at Ajax Strategies where she was a Partner, leading mid-stage investments across energy, transportation, agriculture and industrial applications. Milo joined Tesla in 2007, at a critical stage in the company's trajectory, where she led New Production Introduction, launching Model S powertrain (battery, drive unit, and all the stuff in between), dual motor, drivers assist and, most importantly, Model X. The company grew from 200 to 12,000 during her tenure. In addition to Tesla, Milo ran New Product Introduction at Fitbit, launching four factories in China and transitioning the company to fully automated production, and led engineering and product for micro-grid company Zola, a startup providing distributed energy to over a million families in Sub Saharan Africa. Milo earned a B.S. in Geology and Civil & Environmental Engineering from the University of Vermont, as well as a MS in Civil Engineering and an MBA from the Massachusetts Institute of Technology. She sits on the boards of the UVM College of Engineering and Mathematical Sciences, AxelHire, Infinitum Electric and is a Board Observer for Lime.



Kevin Knobloch // President, Knobloch Energy

Kevin is President of Knobloch Energy, an independent consulting firm providing strategic and tactical guidance to mission-driven companies, agencies and non-profit organizations in the clean energy and clean technology sectors. Previously, Kevin was President of New York OceanGrid LLC in New York from April 2018 to October 2020. Prior to joining Anbaric, Kevin was a Senior Research Fellow at the Center for International Environment and Resource Policy (CIERP) at the Tuft University's Fletcher School of Law and Diplomacy. He was Chief of Staff of the U.S. Department of Energy, working with Secretary of Energy Ernest Moniz in that role from June 2013 through January 2017. He also served as President of the Union of Concerned Scientists for ten years. Earlier in his career, he served as Legislative Director for U.S. Senator Timothy Wirth of Colorado, Legislative Assistant for U.S. Representative Ted Weiss of New York and Director of Conservation Programs at the Appalachian Mountain Club. In addition to being a Distinguished Associate at the Energy Futures Initiative, Kevin serves on the National Commission on Grid Resilience and on the Boards of the Northeast Clean Energy Council and National Offshore Wind Research and Development Consortium, and formerly served on the Board of Heartland Water Technologies. He holds a Master in Public Administration degree from the John F. Kennedy School of Government at Harvard University, with a focus on natural resource economics, and a Bachelor of Arts degree from the University of Massachusetts Amherst.



Anne Levin-Nussbaum
Member, Mintz

Anne is a member in the Energy & Sustainability and Tax practices at Mintz. Anne's practice encompasses a broad spectrum of US federal income tax matters, which for the past 10 years has focused almost exclusively on the tax aspects of developing and financing renewable energy projects.

Anne has counseled clients on a wide variety of US federal income tax matters for over 25 years, and has extensive experience closing transactions involving solar, wind, geothermal, qualified biogas, combined heat and power, biomass, waste, and storage. In representing sponsors, lenders, and equity investors in tax equity financing transactions of wind, solar and other renewable energy projects (including commercial, utility scale, distributed and community solar), she advises clients on the use of flip partnership, sale leaseback and inverted lease structures. Her practice also encompasses providing advance planning guidance to project developers and investors with respect to, and analysis of, on eligibility for the investment tax credit, production tax credit and MACRS depreciation as related to IRS "start of construction" guidance, investments by private equity funds or tax-exempt persons and off-take agreements with municipal utilities, schools, other governmental or tax-exempt parties. She also has significant experience establishing joint ventures for developing and investing in clean energy assets and technologies and negotiating purchase and agreements for renewable energy projects at all stages of development (e.g., prior to NTP and portfolios of operating projects). In addition to Anne's significant experience in the project finance area, she has represented tax insurers in IRS tax credit challenges, evaluated tax credit insurance risk and negotiated policy terms for tax credit insurance.

To contact Anne, please reach out to her at [+1.212.692.6213](tel:+12126926213) or ASLevin@mintz.com.



Courtney Taylor
Senior Vice-President, ML
Strategies

Courtney, a Senior Vice President at ML Strategies in Washington, DC, has developed and implemented successful government relations strategies for clients in the energy and sustainability industry for more than 20 years. She leverages direct experience drafting legislation, enforcing regulations, and litigating complex court cases to achieve outcomes that advance her clients' interests and goals.

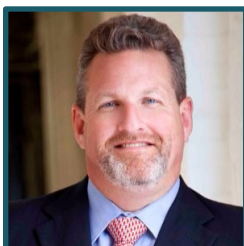
Courtney's comprehensive policy experience — combined with keen strategic thinking, an instinct for persuasive advocacy, and her characteristic optimism and drive — makes her a formidable champion for clients ranging from large, multinational companies to start-ups and nonprofit organizations.

Prior to joining ML Strategies, Courtney was a partner with a DC public policy firm, where she helped energy and environmental organizations respond to federal and state challenges. Earlier, as Policy Director of the Ecosystems Program at the Environmental Defense Fund (EDF), Courtney created issue campaigns to advance the organization's goals. She was the lead lobbyist credited with the passage of the bipartisan RESTORE Act, an important piece of legislation crafted to build ecosystem resilience.

Courtney began her career as a litigation associate at a global law firm. Later, as an attorney at the Department of Interior and a litigator at the Department of Justice, Courtney handled numerous matters pertaining to energy and natural resources.

To contact Courtney, please reach out to her at [+1.202.434.7373](tel:+12024347373) or COTaylor@mlstrategies.com.

Scaling Growth Panel



Dan Coyne // Co-Head, U.S. Investment Banking & Global Head, Sustainability Investment Banking, Canaccord Genuity LLC

Dan serves as Co-Head of U.S. Investment Banking for Canaccord Genuity, which is part of the firm's Global Capital Markets practice. He also leads the firm's Sustainability Investment Banking group as Global Head of that team. During Dan's 25-year Investment Banking career, he has worked on a variety of equity and debt financings and M&A assignments involving many strategic parties and financial sponsors. He has participated in over 250 transactions with an aggregate value exceeding \$25B. Dan has served clients by completing transactions across various growth sectors, including diverse client experiences in Sustainability, Technology, Consumer and Healthcare sectors. Within the Sustainability sector, his deal experience includes multiple transactions in advanced materials, additive manufacturing, building technologies, instrumentation / process control, capital equipment, green building products, recycling, smart grid, solar and energy-efficiency software / services, energy transition and decarbonization technologies, mobility and autonomy, and water. LinkedIn (<https://www.linkedin.com/in/coynedan/>)



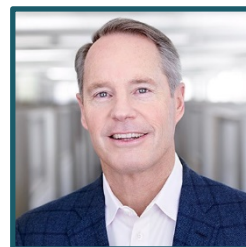
Ted Smith // President & COO, Nuvve Holding Corp.

Ted Smith is President and Chief Operating Officer of Nuvve Holding Corp. Ted is a passionate advocate of vehicle to grid (V2G) technology and has been with Nuvve since the very beginning – as the company's founding investor and first board member, then later as its President and Chief Operating Officer. Prior to Nuvve, Ted worked for over two decades in the finance industry and was an officer in the United States Navy. Ted currently sits on Nuvve's board and also holds board positions at other companies in the EV charging space. He has earned the Chartered Financial Analyst (CFA) and Chartered Investment Counselor (CIC) designations, a MBA from the University of San Diego, and received a Bachelor of Science degree in Marine Engineering from the Maine Maritime Academy.



Jon Guerster // Partner, Activate Capital

Jon was most recently CEO and co-founder of Dalkia Energy Solutions (formerly Groom Energy), a national building energy efficiency company in the commercial and industrial sector, that was acquired by French multinational utility company, EDF. Jon is also co-founder and chairman of Therm Solutions, a refrigerant carbon credit development company, and was co-founder and board member of Digital Lumens, a venture-backed LED lighting company, that was acquired by Osram. Prior to Groom Energy, Jon was a general partner at Charles River Ventures (CRV), where he was lead investor, board member and advisor for enterprise software and service companies including BeFree (acquired by ValueClick), eDocs (acquired by Siebel Systems), Vignette (VIGN), Virtusa (VRTU) and Xign Corporation (acquired by JP Morgan Chase).



Donald R. Young // President & CEO, Aspen Aerogels, Inc.

Donald R. Young has been President, Chief Executive Officer and a member of the board of directors of Aspen Aerogels since November 2001. Prior to joining, Donald worked in the United States and abroad in a broad range of senior operating roles for Cabot Corporation, a leading global specialty chemical company. Prior to Cabot Corporation, Donald worked in the investment business at Fidelity Management & Research. He holds a BA from Harvard College and an MBA from Harvard Business School.



Jeff Hendler // Chief Executive Officer, Logical Buildings

Jeff serves as Co-Founder, President, and Chief Executive Officer of Logical Buildings. Logical Buildings is an industry leading smart building and virtual powerplant software and ESG climate tech solutions provider serving over 10,000 properties nationally. Jeff represents Logical Buildings as Board Member of the Green Button Alliance and Innovation Member of the Smart Cities Counsel. He also serves on the executive committee of the National Energy Marketers Association, as their Smart Grid Committee Chairman. In addition, he is an active voting member of the NYISO and PJM wholesale power grids. Jeff also represents the company as an active member of the Consumer Electronics Association, NY Battery Energy Storage, and Clean Energy Business Network. Jeff is an acting advisor/member of the Wharton Energy Network, and graduate of the Wharton School of Business.



Sahir Surmeli // Co-Chair, Energy & Sustainability Practice, Mintz

Sa is a highly skilled and versatile business counselor who advises companies, boards, entrepreneurs, investment banks, and venture and private equity investors, as they build and grow companies. He handles public offerings, SPAC transactions, 144A and private financings, acquisitions, joint ventures, and strategic partnerships. Sa guides public and private companies and investors, primarily in the energy and sustainability, technology, materials science, hospitality, retail, and life sciences industries. Known as a problem-solver, Sa executes transactions with creative structures to address new opportunities in finance and development of new markets by clients in partnership with global corporations. He also helps entrepreneurs secure financing, commercial agreements, and partnerships. To contact Sa, please reach out to him at +1.617.348.3013 or SSurmeli@mintz.com.



Ruth Hupart
Climate Business Strategy
Officer & Carbon Capture
Lead, International Finance
Corporation (IFC)

Ruth Hupart is a Climate Business Strategy Officer at the International Finance Corporation (IFC) based in Washington, DC, and leads IFC's work on carbon capture. IFC—a sister organization of the World Bank and member of the World Bank Group—is the largest global development institution focused on the private sector in developing countries.

She previously served as Deputy Chief of Staff and covered the energy and environment portfolio, focusing on tax policy, for a member of the U.S. House of Representatives. Ruth earned her B.A. from Dartmouth College and her M.B.A. from Georgetown University.



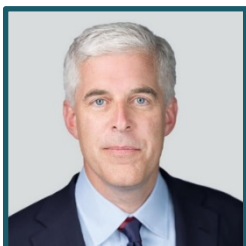
Jacob Hupart
Member, Mintz

Jacob has a multifaceted litigation practice that encompasses complex commercial litigation, securities litigation, including class action claims, as well as white collar criminal defense and regulatory investigations. He has extensive experience handling all phases of litigation before federal and state courts, managing discovery, and conducting settlement negotiations. Jacob has represented clients in a variety of industries, including financial services, energy, healthcare, education, and the media.

His complex commercial litigation practice encompasses contract disputes, merger-related litigation and business tort claims for a multitude of companies, ranging from start-ups to Fortune 100 conglomerates. Jacob also has extensive experience representing corporations, directors & officers of boards, c-suite executives, and other relevant individuals in shareholder derivative actions, securities class actions, and SEC enforcement proceedings. Much of Jacob's representation begins, and finishes, before litigation is ever filed through risk assessment and mitigation counselling. He has particular expertise advising companies in a multitude of industries on their ESG disclosures and policies, and managing the related risk exposure.

To contact Jacob, please reach out to him at [+1.212.692.6203](tel:+1.212.692.6203) or JHHupart@mintz.com.

At-Scale Finance Panel



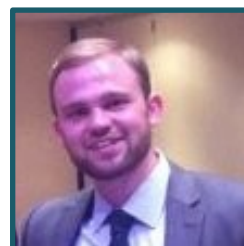
George Bilicic // Vice Chairman of Investment Banking, Global Head of Power, Energy & Infrastructure, Lazard

George heads the Firm's global efforts in power, energy and infrastructure and serves as a member of the Firm's Global Executive Committee. George also works with clients in other industries and formerly led Lazard's Midwest Advisory business. George's areas of activity include mergers & acquisitions (of all types), activism and traditional takeover defense, capital structure advice, capital-raising (of all types), special committee and other board advisory roles, restructurings, long-term client advisory work (of all types), and others. Previously, George was Group President of Semptra Energy and President and Chief Legal Officer of Semptra Energy, in each case with broad responsibilities across various Semptra businesses, legal, compliance, strategy and business development, and where he served as a member of the Board of Directors of Oncor and IEnova. George also served as a Managing Director and Head of Infrastructure at KKR where he was responsible for initiating and leading KKR's global infrastructure investing efforts. Earlier in his career, George had been a Partner in the law firm of Cravath, Swaine & Moore and a Managing Director in the Mergers & Acquisitions Department at Merrill Lynch. After graduation from Georgetown University Law Center, George served in a clerkship with the Hon. Murray M. Schwartz (Chief Judge, U.S. District Court for the District of Delaware). In addition to his membership on the Polaris Inc. Board of Directors, George serves on the Board of Trustees of the Mayo Clinic, the Board of Directors of HistoryMakers, the Board of Visitors of the Georgetown University Law Center and the Advisory Board of the Advanced Energy Research and Technology Center.



Jorge Centeno // Investment Director, InfraRed Capital Partners

Jorge is a member of the infrastructure origination and execution team based in New York. He joined the firm in 2015 in London, where he spent 5 years before relocating to Mexico City to open an lead InfraRed's office as country head for 3 years. His current focus is on sourcing, executing and managing energy, social, transportation and telecommunication investments across the Americas. With more than 10 years of experience within the infrastructure sector, Jorge joined InfraRed from M&A boutique PSource Capital (now known as Craven Street Capital), where he advised businesses on M&A and capital raisings in deals across infrastructure, energy and financial services. He started his career at Spanish engineering and construction company Elecnor, providing in-house corporate, M&A and structured finance legal advice for greenfield and brownfield infrastructure projects in Europe and Latin America. Jorge has a Law Degree from the Universidad Complutense of Madrid and holds a Certificate in Investment Management by CFA UK.



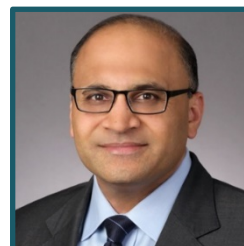
Christopher Lafley // Director, Structured Finance, TotalEnergies Renewables USA, LLC

Christopher joined TotalEnergies in June 2022. Prior to TotalEnergies, Christopher worked in Utility Project Finance and DG Project Finance at SunPower Corporation from 2015 to 2022. He also worked as a Senior Analyst in Transaction Advisory Services at consulting company, EY. Christopher holds a B.A. in Mechanical Engineering from LeHigh University.



Shu Takeoka // Vice President & General Manager, Sojitz Corporation of America, Inc.

Shu joined Sojitz in 2008 and started his career at the Energy and Metals Division as a Commodities Trader in Tokyo. He has been with the Infrastructure Team since 2011, developing energy projects covering Sojitz's EPC contracting and IPP investments. In 2013, he was a Project Manager for the Emirates Aluminium Phase 2 Expansion Project in Abu Dhabi where he oversaw various EPC projects with Sojitz being the prime contractor. Since 2016, Shu has been in charge of Sojitz's M&A activities in the US for the energy sector which includes various IPPs and corporate acquisitions and is currently focused on energy transition investments. Shu graduated from Waseda University in 2008 and has a bachelor's degree in International Liberal Studies.



Ayaz Shaikh // Chair, Projects & Infrastructure Practice, Mintz

Ayaz is a widely recognized projects lawyer with experience in over 40 countries spanning five continents. His practice encompasses Project Finance and M&A across a spectrum of energy and infrastructure sectors. Ayaz advised on some of the first IPPs in Asia, the Middle East and Latin America, establishing the framework, concession structure or model agreements for projects in a country. Today, Ayaz's practice focuses entirely on renewable energy, sustainable infrastructure, and climate related mandates. He is a frequent panelist and has published extensively, including a book on Project Finance Fundamentals and the Chapter on International Project Finance in PLI's International Corporate Practice treatise. In 2001, Ayaz advised the World Bank in a pioneering transaction to operationalize the Kyoto Protocol, structuring and crafting the first Emission Reduction Purchase Agreement or "ERPA," which ultimately came to formed the basis for the creation and sale of renewable attributes, including present-day Renewable Energy Certificates or RECs. Ayaz joined Mintz is 2021 after serving as a partner at two international firms over the past two decades. To contact Ayaz, please reach out to him at [+1.202.434.7318](tel:+12024347318) or AShaikh@mintz.com.

Global Trends in Clean Tech Patent Data



Brad Scheller
Member, Mintz

Brad is a member in the IP litigation section at Mintz and an experienced patent litigator who represents clients in federal courts around the country, including US district courts and the US Court of Appeals for the Federal Circuit, before the Patent Trial and Appeal Board and at the International Trade Commission. He counsels clients in a variety of sectors, including high technology related to electronics, automotive technologies, medical technologies and various consumer products. With a background in mechanical engineering and over 18 years of experience, Brad has successfully represented patent owners' rights against infringers, protected those rights from invalidity challenges and negotiated favorable settlements.

Brad has served as both lead and co-counsel in front of judges and juries at trial in U.S. district courts, the International Trade Commission and the Patent Trial and Appeal Board (PTAB) of the U.S. Patent Office, argued for clients at evidentiary hearings before Article III judges, deposed and defended numerous fact and expert witnesses, and successfully managed large and small litigation teams through all phases of discovery and pretrial. He has litigated intellectual property cases in District Courts throughout the United States, including the Eastern District of Texas, the Southern, Central and Northern Districts of California, the District of Delaware and the Southern and Eastern Districts of New York.

Brad chairs Mintz' IP blog and is a member in the Energy & Sustainability practice at Mintz.

To contact Brad, please reach out to him at [+1.212.692.6761](tel:+12126926761) or BMScheller@mintz.com.