

## The Honorable Linda Capuano, Ph.D.

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Dr. Linda Capuano brings broad commercial, government and academic experience. She held leadership roles in large corporations (IBM, Honeywell and Marathon Oil), small businesses (Advanced Energy Industries), startups (Conductus, Ecopia, Biological Components), academia (Rice University, University of Colorado), and government service (EIA).

These technical and organizational experiences span fossil and renewable energy, electric power, residential and industrial energy efficiency, advanced manufacturing, computers, electronics, aerospace, agriculture, and statistical data sciences. She has led start-up organizations in the development and commercialization of innovative technical products that included national and international collaborations with industry, government agencies and laboratories, academia, NGOs, and trade associations.

As EIA Administrator, she testified to the U.S. Congress on trends and progress in energy production, renewables, and emission reduction. She also brought independent fact-based data for evidence building to policy makers in DOE, EPA, State Department, White House and Congress. She participated in national technology policy discussions as an elected National Associate Member of the National Academy of Sciences and fellow at the Baker Institute for Public Policy. As co-founder of two Silicon Valley start-ups, she testified before Congress on innovations for cost-competitive products, and was a member of the Department of Commerce envoy to Poland during its transition to commercial competitiveness. She has served on more than 20 national boards, including those of National Academy of Sciences.

### **Energy Efficiency and Renewables**

As **Administrator, Energy Information Administration (2018 to 2021)**, she lead the collection, analysis and dissemination of energy information to support policymaking, efficient markets, and public understanding of energy and its interaction with the economy and the environment. This included the growing contribution of renewables in energy production and consumption, and the corresponding impact on CO2 emissions.

As **Vice President at Marathon Oil Corporation (2008-2013)**, reporting to the CEO, she was responsible for Marathon's full technology organization supporting conventional and unconventional oil and gas exploration and production, a joint Canadian oil sands mining venture, and petroleum products manufacturing and distribution. She also led Marathon's efforts in renewable and alternative fuels, energy efficiency, and carbon intensity. As **vice president of emerging technology**, she was responsible for renewables analysis that led to Marathon's solar power and carbon capture CCUS Canadian oil sands installation; and, feasibility analysis of solar, wind, biomass, geothermal and tidal power generation in exploration.

Dr. Capuano continues to focus on energy in her faculty appointment as **Professor and Advisor to the Dean on Energy Initiatives at Rice University's Jones Graduate School of Business (2021-present)**. This builds on her research on the interdependence of energy, water and agriculture as the **Fellow in Energy Technology at Rice University's Baker Institute for Public Policy (2015 to 2018)**. In that role, she brought together federal and state officials and agencies, academics and industry leaders on topics in shale oil and natural gas production and produced water applications. Chairing conference discussions, she influence DOE focused funding decisions by presenting findings that could accelerate the acceptance of advanced energy technologies to benefit U.S. energy development.

### **Electricity and Technical Innovation**

As **Director, Peak Reliability Board of Directors (2014 to 2018)**, she was in a position of responsibility for the Western Electricity Coordinating Council's Reliability Coordinator and Interchange Authority functions in 14 western states and parts of Mexico and Canada. These electricity interconnection responsibilities built upon her tenure as a **Member of the Board of Governors for the California**

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**Independent System Operator (CAISO) (2007-2010)**, with operating responsibility for the majority of California's high-voltage wholesale power grid to maintain reliability and direct transmission between energy suppliers and utilities that serve 30 million Californians.

### **Leadership and Innovation**

In a variety of **Vice President roles at Honeywell/Allied Signal (1995–2004)**, Dr. Capuano led the integration of six functional organizations (Strategic Marketing, Strategic Planning, e-Business Digitization, New Business Development, Mergers & Acquisitions, and Strategic Plan Deployment) supporting five business units within the Aerospace.

More importantly, as **Corporate Vice President of Technology Strategy (2001-2004)**, she consolidated the activities of the company's global engineering personnel that supported its diversified technology and manufacturing businesses. She also led Honeywell's R&D organization that included skill centers in materials, electronics, optics, information technology, and catalysis, such as advanced solid oxide and polymer exchange membrane fuel cell prototypes for automotive, stationary power, and space applications.

As **Executive Vice President and Chief Technology Officer, Advanced Energy Industries (2004-2005)**, Dr. Capuano managed research, corporate marketing and global sales and services. This included coordinating technical efforts that refined the company's solar energy products to meet the needs of the solar industry manufacturers producing thin-films using bulk silicon, glass, or metal substrates.

Earlier in her career, Dr. Capuano was **co-founder, Vice President of Conductus (1988-1995)**, a Silicon Valley start-up in high-technology communication, medical instrument, and sensor superconductor electronic product development and production, and Biological Components Corporation, a Silicon Valley start-up in integrated circuit switches.

The foundation for her ability to develop and productize cost-competitive new technology developed as a **Product Program Manager at IBM (1977–1988)**, where she held progressively more responsible roles in computer memory programs for IBM mainframes. IBM recognized her success with an Outstanding Achievement Award, and she received the Society of Women Engineers' Technical Excellence Award for her contributions in bringing the next generation computer memory to market.

### **Advanced Manufacturing and Industrial and Home Efficiency**

In addition to her advanced engineering and manufacturing experience at IBM, as **Senior Vice President, Global Design & Engineering Services, Flextronics/Solectron (2005-2008)**, Dr. Capuano managed an international team that designed and delivered products to consumer, industrial, aerospace, and automotive clients. The University of Colorado's Engineering School recognized her accomplishments with Distinguished Alumni Award in Industry and Commerce.

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## Education

Ph.D.	Stanford University	Materials Science & Engineering
M.S.	Stanford University	Engineering Management
M.S.	University of Colorado	Chemistry
B.S.	University of Colorado	Chemical Engineering
B.S.	S.U.N.Y. at Stony Brook	Chemistry

- Elected National Associate of the National Academy of Sciences - a lifetime position recognizing contributions to the US in advising science and technology policy, 2002
- Distinguished Engineering Alumni Award in Industry & Commerce from the University of Colorado at Boulder College of Engineering and Applied Science, 2005
- Society of Women Engineers' Technical Excellence Award in recognition of industry contributions in bringing the next generation computer memory to market, 1983

## Employment Chronology

2021 – pres.	Professor-in-the-Practice of Energy Management Advisor to Dean on Energy Initiatives, Jones Business School	Rice University
2018 – 2021	Administrator, Energy Information Administration	Department of Energy
2014 – 2018	Fellow, Baker Institute for Public Policy	Rice University
2008 – 2013	Company Vice President and Officer, Technology	Marathon Oil Corporation
2005 – 2008	Senior Vice President, Global Design & Engineering	Solectron Flextronics
2004 – 2005	Executive Vice President, Chief Technology Officer, Marketing	Advanced Energy Industries
1995 – 2004	Corporate Vice President, Technology and New Business Development	Honeywell/AlliedSignal
1988 – 1995	Co-founder, Officer, Vice President, Chief Financial Officer	Conductus
1977 – 1988	Product Program Manager Roles	IBM

## Board and other positions

2015 – 2018	Faculty, Jones School of Business Executive MBA Program	Rice University
2014 – 2016	Technical Advisor, Green Earth Greens Ecopia Farms	Green Earth Greens
2013 – 2018	Board of Directors, Chair Governance Committee	Peak Reliability
2007 – 2010	Board of Governors, Vice Chair Audit Committee	California Independent System Operator
1992 – 1995	Co-founder, Board Member, Chief Technology Officer	Biological Components Corporation