

MASSOUD AMIN, DSc, is the president of **ENERGY POLICY & SECURITY ASSOCIATES**, an organization committed to driving progress through clean energy, infrastructure security, energy efficiency, and climate resilience. Dr. Amin is a pioneer in research and development for the smart grid and self-healing infrastructures and is widely recognized as the "father of the smart grid." He was responsible for directing all security-related R&D for North American utilities after the 9/11 attacks and led the development of more than 36 advanced technologies to enhance the security of critical infrastructures, including power, energy, markets/finance, communications, and transportation networks.



Dr. Amin, an IEEE & ASME Fellow, has been honored with numerous awards, including six EPRI Performance Recognition Awards for his leadership in three areas, the 2002 President's Award for the Infrastructure Security Initiative, and EPRI's highest honor, the Chauncey Award, twice. He is passionate about developing leaders and powering progress.

Areas of Expertise

- Dynamical systems and controls | CIP, security, and resilience
- Defense networks, C4I, combat and logistics systems
- Modernization, efficiency, security, and resilience of interdependent national critical infrastructures
- Smart grids, smart cities, cyber-physical security, resiliency, and sustainability
- Science and technology assessment, valuation, and law/business/policy foresight and strategy
- Talent and executive leadership development, foresight/forecasting, and engineering management consulting

Experience and Background

- Years of experience in the electric power industry..... 1985–Present
- President, Energy Policy & Security Associates2023– Present
- Critical Infrastructure Lead and Industry Advisor, Quanta Technology2022–2023
- Professor, Department of Electrical and Computer Engineering, Univ. of Minnesota 2003–Present
- Director and Honeywell/H.W. Sweatt Chair in Technological Leadership, Univ. of Minnesota 2003–2018
- Independent Director & Chairman, Texas Reliability Entity (TexasRE) 2010–2017
- Independent Director, Chair of Compliance & Audit Comm., Midwest Reliability Org. (MRO) 2013–2017
- Board, Infrastructure & the Constructed Environment (BICE), U.S. National Academy of Engineering ..2001–2007
- Board on Mathematical Sciences & Applications (BMSA), U.S. National Academy of Sciences2006–2009
- Area Manager, Infrastructure Security, Grid Operations & Planning, and Energy Markets, EPRI1998–2003
- Associate Professor/Director, Dept. of Systems Science & Mathematics, Washington University1990–1998

Selected Industry Accomplishments and Recognition

- Fellow, Leadership in Smart Grids and Security of Critical Infrastructures, IEEE, 2016
- Fellow, Leadership in the profession and contributions in education and R&D, ASME, 2011
- Thought Leader of the Year, Energy Thought Summit (ETS), 2015
- Visionary Leader Award, Cyber Security Summit, 2015
- Chairman, IEEE Smart Grid, 2014–2018
- Award in Recognition of Service as Chairman of the IEEE Smart Grid, IEEE PES, 2019
- Chairman, External Advisory Boards/Committees, at ORNL, Idaho Nat'l Labs, and several other orgs., 2005–2018
- Chairman, Energy Security, ASME Critical Assets Protection Initiative, 2002–2004
- Numerous peer-reviewed publications, conference presentations, and keynote addresses (120+)

Education

- DSc (Doctor of Science), Systems Science and Mathematics, Washington University, St. Louis, MO, 1990
- MSc, Systems Science and Mathematics, Washington University, St. Louis, MO, 1986
- MS, Electrical and Computer Engineering, University of Massachusetts, Amherst, MA, 1985
- BS, Electrical Engineering, *cum laude*, University of Massachusetts, Amherst, MA, 1982