

ALBERTO JOSÉ FOSSA

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CONTACT

Rua Caropá, 72
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Brazilian, August 3rd, 1962
Married, 2 children

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FIELDS OF ACTION

- Energy Management and Energy Policy
- Energy Transition and Climate Change
- Quality Infrastructure
- Management Systems and Organizational Strategy

PROFESSIONAL BACKGROUND

Alberto J. Fossa holds a degree in Electrical Engineering; an MBA in Innovation, Technology and Knowledge; a Master's in Energy, a Doctorate in Science (DSc) and a Post-Doctorate in Energy Transition. He has developed his career leading operations for national and international companies across various sectors, notably in energy.

His experience encompasses managing large-scale projects, technology transfer, international development and coordinating strategies involving industry, production, services, project implementation, logistics, costs, and human resources.

He has also engaged in business management across diverse segments, from strategic project planning to operational structure development, establishment and coordination multidisciplinary teams; and strategic negotiation including products and services, as well as developing organizational indicators for action monitoring and reporting to senior management.

His career is divided into five phases detailed below.

1. **First Phase:** Developed and consolidated competencies in software development and technology transfer. Since 1986, as a systems development engineer at E.J.Robba Consulting associated with the Polytechnic School of the University of São Paulo, he participated in and coordinated technical support projects for various Brazilian companies in the electrical energy sector.
2. **Second Phase:** From 1989, focused on technology development and process optimization as a technology engineer at *Alcoa Aluminium*, coordinating the optimization of industrial processes and structuring production activities and costs. As technology manager, he coordinated market demand and product development in the industrial sector, participating in international missions for feasibility analysis of strategies for infrastructure in the electric energy and telecommunications segments.

3. **Third Phase:** Founded *MDJ Consulting and Engineering* in 1995, focusing on organizational management and quality infrastructure, including metrology, tests, standards and quality procedures. Developed management system implementation projects for various service and industrial companies. Involved in strategic developments for organizations such as *Alston, Cegelec, Arecco, CommScope, Schering Plough*, and *Comgas*. Advised on technology transfer for companies like *Nokia, Allgon* and *International Copper Association (ICA)*.
4. **Fourth Phase:** in 2006, participated in defining and implementing sector strategies (including quality and energy efficiency programs) in infrastructure installations with the São Paulo State Installation Industry Union (*Sindinstalação*). Contributed to developing and creating the Brazilian Association for the Compliance and Efficiency of Installations (*Abrinstal*), where he serves as Executive Director.
5. **Fifth Phase,** Since 2015, transitioned operations from MDJ to his consulting company, *Newen Consulting and Engineering*, focusing on strategic energy management and energy transition. Initiated active collaboration with the University of São Paulo by coordinating projects at the *Reserach Centre for Greenhouse Gas Innovation (RCGI)*, focusing on climate change mitigation, CO2 reduction, and Carbon Capture, Utilization and Storage (CCUS). Current managing the ABNT CB116 Energy Management and Energy Savings in Brazil with *Abrinstal*. During the years 2019 to 2021 developed his post-doctoral work focusing on strategies for GHG reduction through the promotion of energy efficiency in the oil and gas sector.

In these last two phases, he continued engaging int international activities, participating in projects with the United Nations Industrial Development Organization (UNIDO), representing Latin America in standardization forums in the United States, and since 2009, representing Brazil in international energy management and economy forums of the International Organization for Standardization (ISO). He served as Vice-chair of ISO TC301 Energy Management & Energy Savings from 2016 to 2020 and has been a board director at the World Plumbing Council (WPC) since 2016.

PROFESSIONAL EXPERIENCE

2016 to the present – Research Centre for Greenhouse Gas Innovation (RCGI)

World-class research center for advanced studies focusing on sustainability and greenhouse gas emission mitigation linked to the Univeristy of São Paulo

- Reseracher – Project Coordinator

2015 to the present – NEWEN Consulting and Engineering

National company specializing in management consulting and energy transition and sector compliance evaluation

- Managing Partner

2006 to the present – ABRINSTAL – Brazilian Association for Compliance and Efficiency of Installations

National organization developing research and projects related to building infrastructure systems (gas, water, electricity, solar and fire protection)

- Executive Director

1995 to 2015 – MDJ Engineering and Consulting Co

National company focusing on business management consulting and quality infrastructure development advisory, including metrology, testing, and technical barriers

- Managing Partner

1989 to 1995 – ALCOA ALUMÍNIO – Power and Telecommunication Cable Division

Multinational company in the manufacturing sector of cables and accessories for electricity and telecommunications

- Technology superintendent
- Technology Consultant engineer
- Product Engineer

1986 to 1989 – E.J.ROBBA Consulting

National consulting company specializing in technical studies and software development in electrical engineering, linked to the Polytechnic School of the University of São Paulo

- System development Engineer

EDUCATION

- Post-doctor in Energy, University of São Paulo – 2021
- D.Sc., University of São Paulo – 2012
- M.S. in Energy, University of São Paulo – 2006
- *MBA extension in Knowledge, Technology & Innovation* – Bentley College, MIT e Boston University – USA – 2000
- MBA in Knowledge, Technology & Innovation – FIA – University of São Paulo – 1999
- B.A. in Electrical Engineering, Universidade de São Paulo – 1985

INTERNATIONAL TRAVELS AND MISSIONS

- France, Netherlands – Work meetings and Plenary meetings on ISO TC 265 – Carbon Capture and Storage – 2023 to 2025
- Peru, El Salvador, Guatemala, Paraguay – Energy Management Systems ISO Capacity Building Program – 2024 and 2025
- Bolivia – Strengthening Stakeholder Engagement for Standardization in Bolivia – ISO Project - 2023 and 2024
- Uruguai – Strengthening quality infrastructure to increase energy efficiency in the MERCOSUR Member States – PTB Project - 2023
- Geneva – Energy Week – UNECE - 2023
- Colombia – Energy Management Standardization & Accreditation UNIDO Program – 2018 and 2019
- Peru – Energy Management System UNIDO Capacity Building Program - 2018
- USA – Chicago & New York – R&D of technology in Gas industry – 2018
- Germany, China, Swiss, France, Costa Rica – *Work meetings on ISO TC 207 – Environmental Management* – since 2018
- USA – New York – UNIDO mission to participate as speaker on *Sustainable Energy for All (SE4All)* - 2017
- Hong Kong, Germany and United Arab Emirates, Australia, USA, Ireland – *World Plumbing Council (WPC) board meeting* – acting as Board Director, since 2016
- Sweden, France, China, UK, Mexico – Work meetings on ISO TC 301 – Energy Management & Energy Savings – acting as *Vice-Chair* 2016 to 2019
- Austria e Russia – R&D of Energy management programmes and Energy efficiency in Gas industry – 2016
- Colombia – Energy Management System UNIDO Capacity Building Program – 2016
- Singapore, USA, Colombia – *Roadmap* in emergency operations on Natural Gas distribution systems – 2015
- Sweden, China – Work meetings and Plenary meetings on ISO ISO TC301 – Energy Management and Energy Savings – 2015

- Germany, Poland – *World Plumbing Council* – 2015 and 2016
- Egypt – *Energy Management System UNIDO Capacity Building Program* - 2014
- Ecuador – *Energy Management System UNIDO Capacity Building Program* – 2013
- Italy, Japan, USA – *Roadmap for Natural Gas distribution systems* – 2012
- USA – Development of multilateral agreements for the building installation sector – 2011
- UK, China, USA, South Africa, Ireland, Japan, Chile, Mexico, Sweden – *Work meetings and Plenary meetings on ISO TC 242 – Energy Management* – from 2009 to 2015
- Portugal, Germany and Australia – R&D of solar heating system products – 2009
- Colombia – R&D of products used in Natural Gas distribution systems – 2008
- France and Japan – R&D of products on gas distributions sector – 2007
- USA – *Work meetings on TC NFPA 54 – National Fuel Gás Code* – since 2004
- USA – *Work meetings on TC NFPA 58 – Liquefied Petroleum Gases* – since 2001
- France – Development of products used on gas sector – *Comap* – 2001
- USA – Development of products on telecommunication industry – *CommScope* – 2000
- Netherlands and Finland – Technology research for Power and Telecommunication sector – *NKF / NK Cables* – 1998
- Finland – Technology reserch for Power and Telecommunication sector – *Nokia* – 1997
- USA – Tecnlogy transfer for Power and Telecommunication sector – *Alcoa / Elastimold / Hendrix* – 1995
- USA – Tecnlogy transfer for Power and Telecommunication sector – *AFL Alcoa Fujjikura* – 1994

STANDARDIZATION AND REGULATION

- Civil society representative on the Energy Efficiency Indictors Management Committee (CGIEE) of the MME, since 2024
- Head of the Brazilian delegation – *ISO-TC265 Carbon dioxide capture, transportation, and geological storage* since 2021
- Expert from Brazilian delegation – *ISO TC207/SC7 – Greenhouse gas and climate change management and related activities* since 2018
- Head of the Brazilian delegation – *ISO-TC301 Energy Management and Energy Savings* since 2016
- Member of ISO TMBG Climate Change Coordination Committee (CCCC) since 2017
- Head of Brazilian delegation – *ISO-TC242 Energy Management and TC257 Energy Savings* from 2009 to 2016
- Convener of *ISO-TC242/TC301 WG2 – Metrics on Energy Management* – since 2012 to 2023
- Member of *TC NFPA 54 – National Fuel Gás Code* – USA – since 2004
- Member of *TC NFPA 58 – Liquefied Petroleum Gases* – USA – since 2001
- Manager of ABNT CB116 – *Energy management and energy savings* – since 2015
- Coordinator of ABNT CEE116 – *Energy management and energy savings* – from 2009 to 2015
- Coordinator of ABNT CB09 CE 402-02 – Gas Installation – since 1997
- Coordinator of ABNT CB03 CE 014.06 – Power Transformers – from 2009 to 2018
- Coordinator of ABNT CB44 CE 44:02 – Copper products installation – from 2000 to 2018
- Member of Technical Committee of the labeling program for Efficient Buildings – *Inmetro/MME* – since 2010

ORGANIZATIONS

- Director of the board at the *World Plumbing Council* (WPC) since 2016
- Energy Specialist at the *United Nations Industrial Development Organization* (UNIDO) since 2012
- Executive Director of Brazilian Association for the Compliance and Efficiency of Installatons (ABRINSTAL) since 2006
- Coordinator of the Technical Committee of the Building Installation Performance – BIP, representing Abrinstal, since 2003

- Quality Management Consultant at the São Paulo Construction Industry Union – Sinicesp – from 2002 to 2023
- Technology and Regulation Consultant at the *International Copper Association - ICA* and the *Brazilian Institute of the Copper - Procobre* – from 1997 to 2019

ACADEMY

- Project Coordinator at the *Research Centre for Greenhouse Gas Innovation (RCGI)*, University of São Paulo (USP) since 2015
- Researcher at the Institute of Energy and Environmental (IEE), University of Sao Paulo (USP) since 2006
- Professor of Management System, Anhembi Morumbi College - 2002
- Professor of Power Systems and Project Engineering, Sorocaba College - 1987 a 1993

ARTICLES AND PUBLICATIONS

- Book: ‘Carbon Capture Utilization and Storage – Law, Policy and Standardization Perspectives’ - Palgrave Macmillan, 2025
- Guide for Applying ABNT NBR ISO 50001 – Energy Management. São Paulo. *International Copper Association Brazil*. 2019
- Usos Inovadores do Gás Natural na Indústria – Promoção da Eficiência Energética em Arranjos Produtivos Locais (APL) em sintonia com melhores práticas de gestão de energia. Rio de Janeiro: Synergia, 2018. ISBN 978-85-68483-85-5. 252p.
- Boas práticas em Distribuição de Gás Natural – Tecnologias e processos para lidar com emergências em redes de distribuição de gás natural. Rio de Janeiro: Synergia, 2018. ISBN 978-85-68483-83-1. 132p.
- *Predicting the quantifiable impacts of ISO 50001 on climate change mitigation*. Energy Policy 107 (2017) 278-288
- *Implementing ISO 50001 Energy Management Systems: case study in Latin America*. Lab World Magazine, New Delhi, p. 13 - 19, 01 out. 2014
- *Implementing Standardized Energy Management Systems, compatible with ISO 50001, case study: of UNIDO's EnMS Program in Latin America*. In: *Energy Efficiency in motor driven systems - EEMODS 2013*, 2013, Rio de Janeiro. *Energy Efficiency in motor driven systems - EEMODS 2013*, 2013
- Instalações de Gás Natural - Mercado Residencial. 00. ed. São Paulo: COMGÁS/ABRINSTAL, 2012. v. 01. 191p
- Normatização e regulamentação aplicadas à distribuição do gás natural. 0. ed. Brasília: Senai DN e ABNT, 2010. v. 1. 96p
- Aspectos da conformidade no mercado de gás combustível e o impacto na sua expansão. In: 5o Congresso Brasileiro de Regulação, 2007, Recife. Anais V Congresso Brasileiro de Regulação, 2007. p. 132-132
- Instalações para centrais estacionárias de GLP. Techne: Revista de Tecnologia da Construção (São Paulo), São Paulo - 2004

KEY PROJECTS RELATED TO ENERGY, CLIMATE CHANGE AND REGULATATION

- Consulting – International Organization for Standardization ISO – Energy Management System Capacity Building Program – 2024 to 2025
- Consulting – São Paulo Natural Gas Company COMGAS – Strategic regulatory monitoring of standardization – since 2021
- *United Nations Industrial Development Organization UNIDO – Promotion of Industrial Energy Efficiency in Colombian Industries* (regulatory advisory expert) – 2016 to 2019
- *Research Centre for Gas Innovation RCGI* – University of São Paulo, Fapesp and Shell – CO2 abatement and climate change programme – since 2015

- *United Nations Industrial Development Organization UNIDO – Energy Management System Capacity Building Program* (Ecuador, Colombia, Egypt) – since 2012
- *Several Organizations in the Industry and Services – Management Systems implementation* (Quality, Environment, Health and Safety, Social Responsibility, Energy) – since 1995
- *Companhia de Gás Natural de São Paulo COMGÁS – Energy Efficiency in buildings related to natural gas* – 2007
- *Ultragás & Sindigás – Energy Efficiency in buildings related to LPG and electrical services analysis – Regulatory analysis of PNEf* (Energy Efficiency National Plan) – 2009
- *ABRINSTAL – Coordination of the Qualinstal/BIP – definition and establishment of quality and efficiency requirements for building infrastructure* – since 2003

LANGUAGES

- Portuguese (native)
- English and Spanish (fluent)
- France and Italian (understand)

Curriculum lattes: <http://lattes.cnpq.br/8230215311820819>

April - 2026