

Resumé

Data

- Nationality: Brazilian
- Current address: Av Lavandisca, 52 apt 72 São Paulo SP 04515-010 Brazil
- Citizenship: Brazilian
- Email:gmjannuzzi@gmail.com, Google Scholar Citations: <https://goo.gl/KLtnBB>

Education (titles, degrees)

- University of Campinas, Brazil. Mechanical Engineering Faculty. **FULL PROFESSOR** in Energy Systems (2012)
- Universidad de Zaragoza, Spain. Department of Mechanical Engineering. Visiting Fellow - Fundación Carolina. (November/2010-January/2011). Visiting Scholar
- University of Bonn, Germany, Department of Environmental Economics, Visiting DAAD Fellow (June 2008)
- University of Campinas, Department of Energy, **Associate Professor in Energy Systems** (2000)
- University of Campinas, Department of Energy, **Professor "Livre Docente"** (1991)
- Lawrence Berkeley National Laboratory, University of California-Berkeley, U.S.A. **Visiting Scientist** (1998-1999)
- Lawrence Berkeley National Laboratory, University of California-Berkeley, U.S.A. **Post-doctorate** (1988-1989)
- University of Cambridge, St. Edmund's College. **Research Fellow**, Cambridge (1982-83), U.K.
- University of Cambridge, Cavendish Laboratory, Energy Research Group, Cambridge, U.K. **Ph.D. Energy Studies** (1979 - 1983)
- University of Campinas - UNICAMP, Campinas, São Paulo **B.Sc. Mathematics** (1975-1978)

Main professional activities and appointments

- Since 2011. Board Member. Global Climate Change Program. São Paulo State Research Foundation. FAPESP.
- 2022 Consultant to the Government of São Paulo's Climate Action Plan 2050. Funded by GIZ - Deutsche Gesellschaft fuer Internationale Zusammenarbeit.
- 2019-2022. Technical Director. Brazil Energy Programme BEP: "Accelerating the Energy Transition with Social Inclusion and Gender Equity", UK Government Prosperity Fund.
- Since 2021. Associate Editor. Annual Review of Environment and Resources. Annual Reviews. Palo Alto, CA. USA.
- Since 2020 Senior Researcher at the Center for Energy Studies - NIPE. University of Campinas
- 2012-2019. Full Professor in Energy Systems, University of Campinas, Brazil. Mechanical Engineering Faculty.
- 2019-2022. Review Editor Chapter 12: Cross Sectoral Perspectives. Working Group III contribution to the IPCC Sixth Assessment Report (AR6).
- 2010-2012 Head. Center for Energy Studies, University of Campinas.
- Since 2006. Associate Editor. Energy for Sustainable Development. Elsevier.
- 2011. Invited Scholar: Master Program in Management and Engineering of Environment and Energy, École de Mines, Université de Nantes, France.

- 2009-2010. Lead Author. Chapter 8: Integration of Renewables into Present and Future Energy Systems. IPCC Special Report on Renewable Energy Sources. Intergovernmental Panel on Climate Change, UNEP, WMO.
- 2008-20010 Lead Author. Energy Efficiency in the Industrial sector. Global Energy Assessment. IIASA, UNDP (www.worldenergyassessment.org).
- 2005-2009 Dean of Graduate Studies in Energy Planning, Mechanical Engineering Faculty, State University of Campinas – UNICAMP.
- 2004-2020 Executive-Director International Energy Initiative. Since 2001: Director for Latin America of the International Energy Initiative (IEI) – an international NGO with offices in Latin America (Campinas), Asia (Bangalore, India). www.iei-brasil.org. Current Senior Associate and Board Member.
- Since 2000 Senior Research Fellow at the Centre of Interdisciplinary Studies in Energy, University of Campinas
- 2001-2003: Technical Coordinator of the National Energy Research and Development Fund, Ministry of Science and Technology, Government of Brazil
- 1996-1998: Executive-Director. Office of Technology Transfer. State University of Campinas.
- 1995-97. Council member - Conselho Estadual de Meio Ambiente (São Paulo State Environmental Council).
- 1995: Visiting Scientist UNEP Centre on Energy and Environment/ Riso National Laboratory, Denmark.
- 1993-97: Head of the Post-graduate Program on Energy Planning, State University of Campinas.
- 1985-87: Technical Adviser to the Sao Paulo State Energy Council.
- 1983-85 - staff member of Research and Development Unit of the Sao Paulo Light and Power Company.

Selected recent research projects and consulting work

- 2022. Energy Policy Lead and coordinator Sao Paulo State Climate Change Action Plan 2050. (GIZ funded project to the Sao Paulo State government)
- 2018-2020. Energy Efficiency Standards for Air Conditioners in Brazil: contribution towards better MEPs (Kigali Foundation Project)
- 2018-2020. Coordinator. Energy Efficiency Indicators (MonitorEE: energy efficiency portal monitoring Brazilian efforts in energy efficiency). International Energy Initiative Brasil.
- 2016-2018. Coordinator. The impacts of Energy Efficiency and Distributed Generation to Brazilian households, utilities and the power system. International Energy Initiative-Brasil.
- 2014-15. Principal investigator. Technology Needs and Capacity Building for Climate Change Mitigation and Adaptation. Center for Strategic Studies. Ministry of Science and Technology. Brazil.
- 2011-2013. Principal Investigator. “The evaluation of energy efficiency and CO2 equivalent abatement potentials according to different technology dissemination policies: guidelines to public policy-makers”. Project funded by São Paulo Research Foundation FAPESP
- 2011-12. Project Leader. Evaluation of the National Energy Efficiency Program managed by ANEEL (The Electricity Regulator). Project funded by GIZ (Deutsche Gesellschaft fuer Internationale Zusammenarbeit).
- 2012-2014. Joint Project Coordinator. CAPES/DAAD/GIZ Cooperation: “Political and legal framework conditions for increasing the contribution of renewable energies and energy efficiency”. Cooperation with Rhur Universität-Bochum, Germany (prof. J-Christian Pielow).
- 2010 Project Leader. Status of Renewable Energy Markets in Latin America. International Copper Association (Latin American Office).
- 2010 Project Leader. Energy demand projections for the Brazilian Residential Sector up to 2035. Energy Planning Company, Ministry of Mines and Energy, Brazil.

- 2010 Consultant. National Energy Efficiency Program. Centre for Management and Strategic Studies, Ministry of Science and Technology and Ministry of Mines and Energy, Brazil.

Books

- Jannuzzi, G. De M., 2000. "**Eficiência Energética e Fontes Renováveis no novo Contexto de Mercado: análise da experiência recente nos EUA e Brasil**" (Energy Efficiency and Renewables in the New Market Context: an analysis of the US and Brazilian experiences). 116pp. FAPESP/Editora Autores Associados, Campinas, Brazil.
- Jannuzzi, G. De M. and J. Swisher, 1997. "**Planejamento Integrado de Recursos Energéticos: meio ambiente, conservação de energia e fontes renováveis**". 246 pp. PROCEL/Ed. Autores Associados, Campinas, Brazil.
- Swisher, J., G.M. Jannuzzi and R. Redingler, 1997. "**Tools and Methods for Integrated Resources Planning: improving energy efficiency and protecting the environment**". 270 pp. Earthprint/UNEP Collaborating Centre on Energy and Environment/ Riso National Lab. Denmark.

Selected refereed articles (total of more than 70 refereed papers in archived journals)

- Sermarini, Anna Carolina de Paula, João Henrique Paulino Azevedo, Vanessa Cardoso de Albuquerque, Rodrigo Flora Calili, Felipe Gonçalves, e Gilberto Jannuzzi. "Distributed energy resources in low-income communities: A public policy proposal for Brazil". *Energy Policy* 187: 114030. <https://doi.org/10.1016/j.enpol.2024.114030>.
- Hollas, Camila Ester, Karina Guedes Cubas do Amaral, Marcela Valles Lange, Martha Mayumi Higarashi, Ricardo Luís Radis Steinmetz, Evandro Carlos Barros, Leidiane Ferronato Mariani, et al. 2022. "Life Cycle Assessment of Waste Management from the Brazilian Pig Chain Residues in Two Perspectives: Electricity and Biomethane Production". *Journal of Cleaner Production*, April, pp. 1316-54. <https://doi.org/10.1016/j.jclepro.2022.131654>.
- Goers, Sebastian, Fiona Rumohr, Sebastian Fendt, Louis Gosselin, Gilberto M. Jannuzzi, Rodolfo D. M. Gomes, Stella M. S. Sousa, and Reshmi Wolvers. 2020. 'The Role of Renewable Energy in Regional Energy Transitions: An Aggregate Qualitative Analysis for the Partner Regions Bavaria, Georgia, Québec, São Paulo, Shandong, Upper Austria, and Western Cape'. *Sustainability* 13 (1): 1-30. <https://ideas.repec.org/a/gam/jususta/v13y2020i1p76-d467125.html>.
- Piai, Juliani Chico, Rodolfo Dourado Maia Gomes, and Gilberto De Martino Jannuzzi. 2020. 'Integrated Resources Planning as a Tool to Address Energy Poverty in Brazil'. *Energy and Buildings* 214 (May): 109817. <https://doi.org/10.1016/j.enbuild.2020.109817>.
- Heideier, Raphael, Sergio Valdir Bajay, Gilberto M. Jannuzzi, Rodolfo D. M. Gomes, Luan Guanais, Izana Ribeiro, and Angelo Paccola. 2020. 'Impacts of Photovoltaic Distributed Generation and Energy Efficiency Measures on the Electricity Market of Three Representative Brazilian Distribution Utilities'. *Energy for Sustainable Development* 54 (February): 60-71. <https://doi.org/10.1016/j.esd.2019.10.007>.
- Letschert, Virginie E., Nihan Karali, Won Young Park, Nihar Shah, Gilberto Jannuzzi, Fernando Costa, Roberto Lamberts, Kamyla Borges, and Suely Machado Carvalho. 2019. 'The Manufacturer Economics and National Benefits of Cooling Efficiency for Air Conditioners in Brazil'. In *ECEEE Summer Study Proceedings*. Belambra Presqu'île de Giens, France.
- Melo, Conrado Augustus de, Gilberto De Martino Jannuzzi, and Paulo Henrique De Mello Santana. "Why Should Brazil to Implement Mandatory Fuel Economy Standards for the Light Vehicle Fleet?" *Renewable and Sustainable Energy Reviews* 81 (January 2018): 1166-74. doi:10.1016/j.rser.2017.08.054.
- Melo, Conrado Augustus de, Gilberto de Martino Jannuzzi, and Sergio Valdir Bajay. 2016. "Nonconventional Renewable Energy Governance in Brazil: Lessons to Learn from the

German Experience.” *Renewable and Sustainable Energy Reviews* 61 (August): 222–34. doi:10.1016/j.rser.2016.03.054.

- Melo, Conrado Augustus de, and Gilberto de Martino Jannuzzi. “Cost-Effectiveness of CO2 Emissions Reduction through Energy Efficiency in Brazilian Building Sector.” *Energy Efficiency*, January 10, 2015, 1–12. doi:10.1007/s12053-014-9322-2.
- Jannuzzi, Gilberto de Martino, and Conrado Augustus de Melo. 2013. “Grid-Connected Photovoltaic in Brazil: Policies and Potential Impacts for 2030.” *Energy for Sustainable Development* 17 (1): 40–46. doi:10.1016/j.esd.2012.10.010.
- De Melo, Conrado Augustus, Gilberto de Martino Jannuzzi, and Aline Ferreira Tripodi. 2013. “Evaluating Public Policy Mechanisms for Climate Change Mitigation in Brazilian Buildings Sector.” *Energy Policy* 61 (October): 1200–1211. doi:10.1016/j.enpol.2013.06.056.
- Jannuzzi, G M, and J. Goldemberg. 2014. “Modern Energy Services to Low Income Households in Brazil: Lessons Learned and Challenges Ahead.” In *Energy Poverty: Global Challenges and Local Solutions*, 1st ed. Oxford: Oxford University Press.
- Melo, C.A., G.M. Jannuzzi. 2010. *Energy efficiency standards for refrigerators in Brazil: A methodology for impact evaluation*. *Energy Policy* (8). 2010.
- Vendrusculo, Edson, Guilherme Queiroz, Gilberto Jannuzzi, Herculano da Silva Júnior, e José Pomilio. 2009. *Life cycle cost analysis of energy efficiency design options for refrigerators in Brazil*. *Energy Efficiency* 2, no. 3: 271-286. doi:10.1007/s12053-008-9034-6.
- Sant'Ana, P. H. M., G. M. Jannuzzi, S. V. Bajay. 2009. *Developing competition while building up the infrastructure of the Brazilian gas industry*. *Energy Policy*, 37: 308-317.
- Volpi, G., Jannuzzi G.M., Gomes, R.D.M. 2006. *A sustainable electricity blueprint for Brazil*. *Energy for Sustainable Development Journal*. Vol 4 pp. 14-24.
- Jannuzzi, G.M. 2005. *Power Sector Reforms in Brazil and its impacts on Energy Efficiency and R&D activities*. *Energy Policy*, 33(13): 1753-1762.
- Gadgil, A. & G. M. Jannuzzi. 1991. "*Conservation Potential of Compact Fluorescent Lamps in India and Brazil*." *Energy Policy*. 19. 5. 449-463: U.K.
- Gadgil, A., G. M. Jannuzzi, E. P. Silva, M. L. Leonardi. 1999. "*A Cost-neutral energy strategy incorporating renewables and energy-efficiency for the city of Manaus in Brazilian Amazonia*" *Energy Policy* Vol. 27, No. 6, pp. 357-367, U.K.
- Geller, H., G. M. Jannuzzi, R. Schaeffer, & M. T. Tolmasquim. 1998. "*The Efficient Use of Electricity in Brazil: Progress and Opportunities*." *Energy Policy*. 26.(11): 859-872: U.K.
- Jannuzzi, G. M. & L. Schipper. 1991. "*The Structure of Electricity Demand in the Brazilian Household Sector*." *Energy Policy*. 19. 11. 879-891: U.K.
- Jannuzzi, G. M. 1989. "*Residential Energy Demand in Brazil by Income Classes: Issues for the Energy Sector*." *Energy Policy*. 17. 3. 254-264: U.K.