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Salvador Gil, PhD

Senior Energy Consultant – Natural Gas, LPG & Energy Efficiency

PROFESSIONAL PROFILE

Senior energy specialist with over 25 years of experience in natural gas regulation, energy efficiency policy, and sustainable energy transitions in Latin America. Extensive background in technical, regulatory, and institutional analysis of gas and LPG sectors, with a strong focus on residential energy use, affordability, and energy poverty.

Former consultant to Argentina's National Gas Regulator (ENARGAS) for more than two decades, contributing to demand projections, distribution and transmission analysis, and efficiency strategies in gas use.

Proven track record working with international organizations including the Inter-American Development Bank (IDB), World Bank, UNEP, ECLAC and the European Union on energy efficiency, energy access, and regulatory strengthening.

Strong analytical and reporting skills, with experience preparing policy-oriented technical reports and recommendations for governments and multilateral institutions.

Experience in energy demand analysis and efficiency strategies applicable to productive and manufacturing sectors, including benchmarking methodologies, cost optimization and emissions reduction strategies.

Familiarity with energy use patterns in food-related value chains, cold storage, thermal processes and distributed energy services.

AREAS OF EXPERTISE

- ◆ Natural gas and LPG markets
- ◆ Energy efficiency policy and programs
- ◆ Appliance efficiency standards and labeling
- ◆ Institutional and regulatory analysis
- ◆ Energy poverty and energy access
- ◆ Residential energy consumption
- ◆ Tariff and subsidy analysis

- ◆ Demand projections and energy planning
- ◆ International benchmarking
- ◆ Technical-economic evaluation of energy services

PROFESSIONAL EXPERIENCE

Independent Senior Energy Consultant

Argentina & Latin America | 2017–Present

Advisor and consultant on energy efficiency, natural gas and energy access projects for governments and international organizations.

Relevant assignments include:

- ✚ Energy efficiency strategies for residential and social housing sectors
- ✚ Assessment of gas and electricity consumption patterns
- ✚ Policy recommendations on energy subsidies and affordability
- ✚ Technical contributions to energy transition strategies
- ✚ International benchmarking of efficiency policies and programs
- ✚ Energy efficiency as a tool to mitigate carbon emissions and poverty

Consultant – National Gas Regulator (ENARGAS)

Argentina | 1994–2017

Consultant to distribution and transmission departments on natural gas sector analysis.

Key responsibilities:

- ✚ Natural gas demand projections (medium and long term)
- ✚ Analysis of residential gas consumption
- ✚ Technical support on regulatory and tariff discussions
- ✚ Evaluation of efficiency opportunities in gas use
- ✚ Development of Energy Efficiency Label Standard in Argentina (ENARGAS and IRAM)
- ✚ Preparation of technical reports for decision-makers

This role provided deep knowledge of Argentina's gas sector structure, regulation, and market dynamics.

- ✚ **Director – Energy Engineering Program.** National University of San Martín (UNSAM) | 2009–2025
- ✚ Led the Energy Engineering program at the UNSAM – BA- Argentina
- ✚ Coordinated applied research on energy efficiency- ENARGAS - UNSAM
- ✚ Supervised studies on residential gas and electricity consumption. UNSAM
- ✚ Promoted training in energy policy and sustainable energy systems. UNSAM, UBA.

SELECTED INTERNATIONAL PROJECTS

World Bank / GEF Projects

- ✓ Energy efficiency in low-income neighborhoods in Argentina
- ✓ Residential energy audits and efficiency diagnostics
- ✓ Strategies to improve comfort and reduce energy costs

Inter-American Development Bank (IDB)

- ✚ Social housing and energy efficiency projects
- ✚ Contributions to sustainable energy services design
- ✚ Policy-oriented technical analysis

UNEP – Post-COVID Green Recovery

- ✚ Analysis of energy efficiency measures aligned with the Paris Agreement
- ✚ Support for sustainable recovery strategies

ECLAC (United Nations) – Panama

- ✚ Contributions to energy transition and energy security analysis
- ✚ Policy recommendations for national energy planning

European Union / GFA Consulting Group

- ✚ National-level energy efficiency assessments
- ✚ Policy and regulatory analysis for Argentina

EDUCATION

- ✚ **PhD in Physics:** University of Washington, USA
- ✚ **MSc in Physics:** University of Washington, USA
- ✚ **BSc in Physics:** Universidad Nacional de Tucumán, Argentina

SELECTED PUBLICATIONS (Policy & Energy Focus)

Author/co-author of numerous publications on:

- ✚ Energy efficiency in residential sectors.
- ✚ Gas vs. electricity use in households.
- ✚ Energy poverty in Argentina.
- ✚ Efficiency in heating, cooking, and hot water.
- ✚ Sustainable energy transitions.

(Full list available upon request) See: <https://www.researchgate.net/profile/Salvador-Gil-2/research>

ADVISORY ROLES

- ✚ Member, Advisory Commission on Science & Technology for Sustainable Development – Ministry of Science, Argentina
- ✚ Member, Strategic Thinking Area – Argentine Chamber of Construction

KEY STRENGTHS FOR IDB CONSULTING

- ✓ Deep knowledge of Argentina's gas and LPG sector
- ✓ Long experience with ENARGAS and regulatory frameworks
- ✓ Strong background in energy efficiency and labeling
- ✓ Experience with multilateral development banks
- ✓ Policy-oriented analytical capacity
- ✓ Ability to translate technical analysis into recommendations

Teaching Experience

- ◆ Associate Professor of Physics at the National University of San Martín (UNSAM) since 1994.
- ◆ Adjunct Professor of Physics and Nuclear Physics at the University of Buenos Aires,
- ◆ Visiting Professor at Universidad de San Andrés,
- ◆ Academic Consultant and Lecturer at Fundación Favaloro University, and Lecturer in the Physics Department at the University of British Columbia (Canada).

Published Books

- ✓ *Low-Cost Physics Experiments Using New Technologies*, S. Gil, World Scientific, March, 2024. 1052 Pags. ISBN: 978-981-12-7775-7 www.worldscientific.com
- ✓ *Futuros Urbanos - Vivienda social asequible y sostenible-* S. Carrizo, P. Azqueta, D. Strier, S. Gil, Serie Futuros- URBANOS- Asociación Argentina para el Progreso de las Ciencias y Fundación Unsam, 2022. Pag. 119-160 <https://aargentinapciencias.org/nuevo-libro-de-la-serie-futuros-energia-julio-2022/> isbn 978-987-48617-0-2
- ✓ *Anatomía del consumo residencial argentino*, R. Zavalía Lagos, L. M. Iannelli y S. Gil - Serie Futuros- Energía Asociación Argentina para el Progreso de las Ciencias y Fundación Unsam, 2022. <https://aargentinapciencias.org/nuevo-libro-de-la-serie-futuros-energia-julio-2022/> isbn 978-987-48617-1
- ✓ *Experimentos de Física de bajo costo, usando TIC.-* S. Gil- Ciudad Autónoma de Buenos Aires : Alfaomega Grupo Editor Argentino, 2014. 792 p. ISBN 978-987-1609-77-2.
- ✓ *Física re-Creativa* – Experimentos de Física usando nuevas tecnología - **S. Gil** y E. Rodríguez - Prentice Hall- Buenos Aires - Marzo de 2001. ISBN 987-9460-18-9
- ✓ *Spin Distribution of the Compound Nucleus in Near-Barrier Fusion Reactions* **S. Gil** -Published in: " Nuclear Structure and Heavy-Ion Reaction Dynamics 1990" pag.33-51. Ed. R.R Betts and J.J Kolata - ISBN 0-85498-068-7
- ✓ *Search for Anomalous Entrance Channel Effect in Sub-barrier Fusion.* S.Gil Published in "Heavy-Ion Fusion: Exploring the Variety of Nuclear Properties." Pag. 78-90. Singapore1994. ISBN 9810220014

