

JUAN ROSELLÓN



BIOGRAPHY (March 2011)

Juan Rosellón is Professor (with *tenure*) at the Department of Economics of the *Centro de Investigación y Docencia Económicas* (CIDE) in Mexico City and, since April 2010, Research Professor at the German Institute for Economic Research (DIW-Berlin) as well as Visiting Scholar at the Technische Universität Berlin (TU Berlin). He has also been a Visiting Professor at the Chair of Energy Economics and Public Sector Management of the Technische Universität Dresden (EE2) from 2006-2010, as well as a Visiting Researcher at the Kennedy School of Government of Harvard University since 2002, and External Academic Advisor at the School of Engineering from the National University of Mexico. He was awarded in February 2009 with the 4th Reimut Jochimsen Prize from the Deutsche Bundesbank (German Central Bank). Likewise, he won in 2008 the Georg Forster Award from the Humboldt Foundation to support research visits in Germany from 2009-2011. He was Repsol-YPF-Harvard Kennedy School Senior Fellow at the Kennedy School during 2005 as well as during the 2003-2004 academic year. During 2002-2003, he was Senior Fellow at the Kennedy School as a Fulbright Scholar. He was at Harvard on a visiting position carrying out research projects on reform processes in the electricity sector, especially in electricity transmission. At CIDE he leads a research network on applied regulatory economics that has received research grants from El Colegio de México (PIERAN), the Mexican Energy Regulatory Commission (CRE), the Mexican Science and Technology Foundation (CONACYT), the Rand Corporation, the World Bank, the Inter-American Development Bank, the Tinker Foundation, Stanford University, and the Naumann Foundation. Academic research on regulatory policy problems faced by decision makers in Mexico is carried out by such a network. Professor Rosellón was also the Director of CIDE's Workshop on Energy Economics and Regulation aimed to train Mexican government officials in the energy sector. Additionally, Rosellón is a member of the Editorial Board of *Economics of Energy & Environmental Policy*, the newest refereed journal of the International Association for Energy Economics (IAEE), and was also Editor of *Economía Mexicana* (2000-2002) --one of the leading journals on Mexican Economy-- as well as Secretary of the Mexican Chapter of the IAEE (1999-2001), and member of its advisory board since October 2001. He was Chief Economist at CRE (1995-1997) during which time he had a leading participation in all economic policy decisions regarding the regulatory reform process of the Mexican natural gas and electricity sectors. He was a faculty member of the Program on Privatization, Regulatory Reform and Corporate Governance at Harvard University (1997-2000), and at Princeton University (2001). He is member of the Mexican National System of Researchers (SNI) since 1994. He currently holds level II at SNI (level III is the highest level). In 1994, he received the National Award in Economics from Mexican president Ernesto Zedillo. Professor Rosellón earned his Ph.D and M.A degrees in Economics from Rice University. He also obtained M.Sc and B.Sc degrees in Mathematics, as well as a B.A degree in Economics (UNAM). He won the Gabino Barreda Medal, which is the most important student honor granted by UNAM. He is also biographee of Who's Who in the World, Who's Who in Science and Engineering, and Who's Who in America. Juan Rosellón has numerous publications on the area of regulatory economics, and has presented his work in more than 115 international seminars and congresses. He ranks among the 8% most productive academic economists in the Central American and Caribbean region of the IDEAS-RePEc database.

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http://www.diw.de/en/diw_02.c.103071.en/about_us/research_departments/environment/transportation/energy/research_cooperation/research_cooperation.html

PUBLICATIONS

Published Papers in International Refereed Journals

1. “Lumpy Investment in Regulated Natural Gas Pipelines: an Application of the Theory of the Second Best,” *Networks and Spatial Economics* (with D.L. Brito), *forthcoming*.
2. “Incentives for Transmission Investment in the PJM Electricity Market: FTRs or Regulation (or both?),” *Utilities Policy*, Volume 19, Issue 1, January, Pages 3-13 (with Myslikova, Z. and E. Zenón), *forthcoming*.
Top Ten SSRN download list for: Energy Policy (Sub-Topic) and Transportation Science eJournal(September 10th, 2010). Top Ten SSRN download list for: Transportation Science eJournal (and December 30th, 2010).
3. “A Dynamic Incentive Mechanism for Transmission Expansion in Electricity Networks—Theory, Modeling and Application”, *The Energy Journal*, Vol. 32, No. 1, 2011 (with Hannes Weigt).
Winner of the 4th Reimut Jochimsen Prize, awarded by the German Central Bank: "European Infrastructure Policy, Challenges for Future Energy Markets in the European Community." Top Ten SSRN download list for: Theory: Networks, Other (April 2008).
4. “Strategic Behavior and International Benchmarking for Monopoly Price Regulation: The Case of Mexico,” *Zeitschrift für Energiewirtschaft (German Journal of Energy Economics)*, Springer, Volume 34, Number 3, 163-177, DOI: 10.1007/s12398-010-0023-z, 2010 (with D.L. Brito).
5. “Toward a Combined Merchant-Regulatory Mechanism for Electricity Transmission Expansion,” *Journal of Regulatory Economics*, Vol. 38, No. 2, 113-143, 2010 (with William W. Hogan, and Ingo Vogelsang).
6. “Merchant Electricity Transmission Expansion: A European Case Study,” *Energy*, Volume 35, Issue 10, October 2010, Pages 4107-4115 (with Tarjei Kristiansen).
7. “Pricing Natural Gas in Mexico: An Application of the Little-Mirrlees Rule – the Case of Quasi-Rents,” *Southern Economic Journal*, 76(4), 2010, (with D.L. Brito).
8. “An Incentive Mechanism for Electricity Transmission Expansion in Mexico,” *Energy Policy*, Vol. 35, Issue 5, pp. 3003-3014, May 2007, ISSN: 0301-4215, Imprint: ELSEVIER. (Previous version published in Repsol YPF-Harvard Kennedy School Fellows 2003-2004 Research Papers, William Hogan, editor, Cambridge, MA, Kennedy School of Government, Harvard University, April, 2005, http://www.ksg.harvard.edu/m-rcbg/repsol_ypf-ksg_fellows/03-04_research_papers.pdf)
9. “Different Approaches to Supply Adequacy in Electricity Markets,” *Energy Studies Review*, volume 14, issue 2, pp. 101-130, 2006, ISSN: 0843-4379 (Previous version published in Repsol YPF-Harvard Kennedy School Fellows 2003-2004 Research Papers, William Hogan, editor, Cambridge, MA, Kennedy School of Government, Harvard University, April, 2005, http://www.ksg.harvard.edu/m-rcbg/repsol_ypf-ksg_fellows/03-04_research_papers.pdf)
10. “A Merchant Mechanism for Electricity Transmission Expansion,” *Journal of Regulatory Economics*, vol. 29, no.2, , pp. 167-193, March, 2006, ISSN: 0922-680X (Print) 1573-0468 (Online) (with Tarjei Kristiansen). (Previous version published in Repsol YPF-Harvard Kennedy School Fellows 2003-2004 Research Papers, William Hogan, editor, Cambridge, MA, Kennedy School of Government, Harvard

- University, April, 2005, http://www.ksg.harvard.edu/m-rcbg/repsof_ypf-ksg_fellows/03-04_research_papers.pdf)
11. "The Political Economy of Solar Energy, in *Energy and Nanotechnology: Prospects for Solar Energy in the 21st Century*, "**The James A. Baker III Institute for Public Policy**, pp. 1-16, Rice University, December, 2005, http://www.rice.edu/energy/publications/docs/NANO_PotliticalEconSolarEnergy.pdf (with D.L. Brito)
 12. "Price Regulation in a Vertically Integrated Natural Gas Industry: The Case of Mexico," *The Review of Network Economics*, vol. 4, issue 1, pp. 75-92, March, 2005, ISSN: 1446-9022, <http://www.rnejournal.com/index.html> (with D.L. Brito). (Previous version published in Repsof YPF-Harvard Kennedy School Fellows 2003-2004 Research Papers, William Hogan, editor, Cambridge, MA, Kennedy School of Government, Harvard University, April, 2005, http://www.ksg.harvard.edu/m-rcbg/repsof_ypf-ksg_fellows/03-04_research_papers.pdf)
 13. "Different Approaches Towards Electricity Transmission Expansion," *The Review of Network Economics*, vol. 2, issue 3, pp. 238-269, September 2003, ISSN: 1446-9022, <http://www.rnejournal.com/index.html>.
 14. "Pricing Natural Gas in Mexico; An Application of the Little Mirrlees Rule," *The Energy Journal*, Vol. 24, No. 3, pp. 81-93, 2002, ISSN: 0195-6574 (with D. L. Brito).
 15. "Pricing Natural Gas Distribution in Mexico," *Energy Economics*, Vol. 24, No. 3, pp. 231-248, May, 2002, ISSN: 0140-9883, Imprint: NORTH-HOLLAND (with J. C. Ramírez).
 16. "Regulatory Reform in Mexico' Natural Gas Industry. Liberalization in the Context of a Dominant Upstream Incumbent," *Policy Research Working Paper, The World Bank*, 2537, pp. 1-37, January 2001, http://papers.ssrn.com/sol3/papers.cfm?abstract_id=632633 (with J. Halpern).
 17. "Designing Natural Gas Distribution Concession in a Megacity. Tradeoffs between Scale Economies and Information Disclosure in Mexico City," *Policy Research Working Paper, The World Bank*, 2538, pp. 1-26, January 2001, <http://ideas.repec.org/p/wbk/wbrwps/2538.html> (with J. Halpern).
 18. "The Economics of Rules of Origin," *The Journal of International Trade and Economic Development*, Vol. 9, No. 4 December 2000, pp. 397-425, ISSN: 0963-8199 (print), 1469-9559 (online).
 19. "Pricing Liquid Petroleum Gas in Mexico," *Southern Economic Journal*, Vol. 66, No. 3, pp. 742-743, January 2000, ISSN: 0038-4038 (with D.L. Brito and W. L. Littlejohn).

Submitted Papers to Refereed Journals

20. "Long-run cost functions for electricity transmission," *The Energy Journal* (with I. Vogelsang and H. Weigt), *Revise and Resubmit*.
21. "El modelo HRV para expansión óptima de redes de transmisión: una aplicación a la red eléctrica de Ontario," *Economía Mexicana. Nueva Época* (with. J Tregear and E. Zenón), *Revisar y Reenviar*.
22. "Expansión de las Redes de Transmisión Eléctrica en Norteamérica: Teoría y Aplicaciones", *El Trimestre Económico* (with E. Zenón)
23. "Transmission Investment in the Peruvian Electricity Market: Theory and Applications," *Energy Policy* (with E. Ruiz)

Book Chapters

24. Chapert Eight: Mexico, in Oil and Gas Management and Revenues in Federations, George Anderson (editor), **Oxford University Press**, *forthcoming*.

25. Mechanisms for the Optimal Expansion of Electricity Transmission Networks, in International Handbook on the Economics of Energy (IHEE), Joanne Evans and Lester Hint (editors), **Edward Elgar Publishing**, 2009.
26. Regulation of Natural Gas Pricing in Mexico, in Robert Klitgaard (editor); Successful Policy Research: Case Studies from Around the World, **Rand Corporation**, *forthcoming*.
27. The Mexican Electricity Sector: Economic, Legal and Political Issues, in The Political Economy of Power Sector Reform. The Experiences of Five Major Developing Countries, David G. Victor and Thomas C. Heller (editors), **Cambridge University Press** 2007, pp. 175-214, 2007, (with V.G. Carreón, and A. Jimenez-San Vicente), ISBN-13: 9780521865029 | ISBN-10: 0521865026. (Previous version published in Repsol YPF-Harvard Kennedy School Fellows 2003-2004 Research Papers, William Hogan, editor, Cambridge, MA, Kennedy School of Government, Harvard University, April, 2005, http://www.ksg.harvard.edu/m-rcbg/repsol_ypf-ksg_fellows/03-04_research_papers.pdf).
28. Strategic Behavior and the Pricing of Gas in Mexico, in Repsol YPF-Harvard Kennedy School Fellows 2003-2004 Research Papers William Hogan, editor, Cambridge, MA, Kennedy School of Government, **Harvard University**, April, 2005 (with D.L. Brito), http://www.ksg.harvard.edu/m-rcbg/repsol_ypf-ksg_fellows/03-04_research_papers.pdf.
29. Implications of the Elasticity of Natural Gas in Mexico on Investment in Gas Pipelines and in Setting the Arbitrage Point, in Repsol YPF-Harvard Kennedy School Fellows 2003-2004 Research Papers, William Hogan, editor, Cambridge, MA, Kennedy School of Government, **Harvard University**, April, 2005 (with D.L. Brito), http://www.ksg.harvard.edu/m-rcbg/repsol_ypf-ksg_fellows/03-04_research_papers.pdf.
30. Natural Gas Sector Review, in Private Solutions for Infrastructure in México, 2002 , **The World Bank**, PPIAF, ISBN: 0821354140.
31. Economic and Political Implications of New Developments in Thin Film Solar Technology, in Global Warming: Science and Policy, Cambridge University Press, 2000, (with D. L. Brito), Baker Institute for Public Policy, **Rice University**, http://www.bakerinstitute.org/Pubs/faculty_brito1.pdf

Books

32. Financial Transmission Rights: Analysis, Experiences and Prospects, **Springer Verlag**, (with T. Kristainsen) *forthcoming*.

Refereed SSCI Latin American Journals

33. “Incentives for Supply Adequacy in Electricity Markets: An Application to the Mexican Power Sector,” *Economía Mexicana. Nueva Época (SSCI Journal)*, vol. XVIII, no. 2, 2009 (with V. Carreón)..
34. “Investigación académica que sustenta la toma de decisiones: El convenio CIDE-CRE”, 2008, *Gestión y Política Pública (SSCI Journal)*, Vol. 17, Núm. 1, pp.71-99, primer semestre de 2008. ISSN: 1405-1079.
35. “LNG in the Northwestern Coast of Mexico: Impact on Prices of Natural Gas in Both Sides of the U. S.-Mexico Border,” *Frontera Norte*, no. 36, pp. 7-27, 2006, ISSN: 0187-7372 (with Sophie Meritet, Alberto Elizalde).
36. “Un Modelo de Equilibrio General para la Fijación de Precios del Gas Natural en México,” *El Trimestre Económico (SSCI Journal)*, vol. LXXII (2), Num. 286, pp. 391-408, abril-junio, 2005, ISSN: 0041-3011 (with D.L. Brito).
37. “Regulation of Gas Marketing Activities in Mexico,” *Estudios Económicos*, Vol.18, No.1 January-June 2003, pp. 15-35, ISSN: 0188-6916 (with D. L. Brito).

38. "Oportunidad de la Inversión en Gasoductos de GLP en México," *El Trimestre Económico (SSCI Journal)*, Vol. 69 (4), No. 276, 2002, pp. 567-581, ISSN: 0041-3011 (with D. L. Brito).
39. "La Reforma del Sector Eléctrico Mexicano: Recomendaciones de Política Pública," *Gestión y Política Pública (SSCI Journal)*, Vol. XI, No. 2, 2002, pp. 243-299, ISSN: 1405-1079 (with V. Carreón).
40. "Una nota sobre la regulación del gas en México: Comentarios críticos," *El Trimestre Económico (SSCI Journal)*, Vol. 69 (3), No. 275, pp. 435-441, January-March 2002, ISSN: 0041-3011 (with D. L. Brito)
41. "Reglas de Origen y Análisis del Bienestar," *El Trimestre Económico (SSCI Journal)*, Vol. LXVIII (1), No. 269, January-March, pp. 3-38, 2001, ISSN: 0041-3011.
42. "La Regulación de las Tarifas de Distribución del Gas Natural en México: Un Modelo Estocástico," *El Trimestre Económico (SSCI Journal)*, Vol. LXVII (2), No. 266, , pp. 239-276, April-June, 2000, ISSN: 0041-3011 (with J. C. Ramírez).
43. "Determinación de precios del gas licuado de petróleo en México," *El Trimestre Económico (SSCI Journal)*, vol. LXVI(4), No. 264, pp. 763-780, October-December 1999, ISSN: 0041-3011 (with D. L. Brito, and W. L. Littlejohn).
44. "Price and Rate Regulation for the Mexican Natural Gas Industry: Comments on Policy Decisions", *Economía Mexicana. Nueva Época (SSCI Journal)*, vol.II, no. 2, pp. 267-308, 1998, ISSN: 0185-0458.
45. "Temas Esenciales de La Economía de la Ciencia," *Investigación Económica*, UNAM, no. 223, pp. 125-158, enero-marzo 1998, ISSN: 0185-1667.
46. "Regulatory Reform in Mexico's Gas Industry," *Revista de Análisis Económico*, ILADES/Georgetown University, vol. 10, No. 2, pp. 267-283, November 1995, ISSN: 0716-5927
47. "Reglas de Origen de Tratados de Libre Comercio: Efectos sobre el uso de Factores Domésticos de la Producción," *Economía Mexicana. Nueva Época (SSCI Journal)*, CIDE, vol. II, no. 1, pp. 61-92, México, January-June 1994, ISSN: 0185-0458.
48. "La Economía Elemental de las Reglas de Origen," *El Trimestre Económico (SSCI Journal)*, F.C.E., No 231, pp. 481-496, 1991, ISSN: 0041-3011 (with Raúl Ramos Tercero).

Book Chapters in Spanish

49. Economía de la Ciencia in Enciclopedia Iberoamericana de Filosofía, Vol. 30. Sobre la Economía y sus Metodos, Editorial Trotta, Madrid, Spain, 2009, ISBN: 978-84-9879-056-6.
50. Incentivos para la Expansión de la Red de Transmisión Eléctrica en México Mediante la Regulación de Precios in La Realidad Económica Actual y sus Corrientes de Interpretación: Un Debate Inicial, edited by UNAM/ Miguel Angel Porrúa, 2002 (with A. Nevárez), ISBN 970-701-306-0.
51. El Modelo Principal-Agente en el Análisis de la Política Científica en Países en Desarrollo, en Ciencia Económica y Economía de la Ciencia: Reflexiones filosófico-metodológicas, edited by SIAME/FCE, 2001 (with B. de la Torre), ISBN: 84-375-0507-0.
52. Alternativas de Regulación en el Sector Eléctrico, in La Reforma Estructural del Sector Eléctrico, edited by ITAM-Miguel Angel Porrúa, June 2000, ISBN: 9707010304
53. La Regulación de Precios y Tarifas para la Industria del Gas Natural en México, in Transiciones Energéticas en México, Centro y Sudamérica (1999), Segundo Congreso Nacional de la Asociación Mexicana para la Economía Energética, A. C., ISBN: 968-36-7479-8.

Books Published in Mexico

54. Different Approaches to Electricity Transmission Expansion in Mexico, **Centro de Investigación para el Desarrollo (CIDAC)**, Mexico, (bilingual version), ISBN: 978-968-9123-06-4, 2007.
55. División Óptima de la Zona Metropolitana de la Ciudad de México para fines de Distribución de Gas Natural, **CIDE-CRE-Limusa** coedition, 2000, (Editor).

Working Papers (Complete listing):

56. *Regulated Expansion of Electricity Transmission Networks: The Effects of Fluctuating Demand and Wind Generation*, Discussion Papers of DIW Berlin 1109, DIW Berlin, German Institute for Economic Research (with W.P. Schill and J. Egerer).
57. *El modelo HRV para expansión óptima de redes de transmisión: una aplicación a la red eléctrica de Ontario*, CIDE, (with J. Tregear, E. Zenón), CIDE, DTE 493..
58. *Expansión de las Redes de Transmisión Eléctrica en Norteamérica: Teoría y Aplicaciones*, 2010, CIDE, DTE 479.
59. *The Hydrocarbon Sector in Mexico: from The Abundance to the Uncertain Future*, 2009, CIDE, DTE 472 (with Carreón-Rodríguez, V., E. Zenón).
60. *Long-run cost functions for electricity transmission*, 2009, CIDE, DTE 465, (with Vogelsang I., and H. Weigt).
Top Ten SSRN download list for: Randomized Social Experiments; Econometric Modeling in Microeconomics; Networks; Regulation; Energy Policy; Primary Taxonomy (December 27th). Top ten SSRN download list for Econometric Modeling in Microeconomics (December 31st, 2009). Top ten SSRN download list for Randomized Social Experiments (January 3rd, 2010). Top ten SSRN download list for Energy Policy (Sub-Topic). (December 30th, 2010)
61. *Incentives for Transmission Investment in the PJM Electricity Market: FTRs or Regulation (or both?)*, 2009, CIDE, DTE 463, (with Myslikova, Z. and E. Zenón).
Top Ten SSRN download list for: Energy Policy (Sub-Topic) and Transportation Science eJournal(September 10th, 2010). Top Ten SSRN download list for: Transportation Science eJournal (and December 30th, 2010)
62. *Lumpy Investment in Regulated Natural Gas Pipelines: An Application of the Theory of the Second Best*, 2008, CIDE, E-426 (with D.L. Brito)
63. *A Dynamic Incentive Mechanism for Transmission Expansion in Electricity Networks – Theory, Modeling and Application*, 2008, CIDE and EE2, E-424 (with Hannes Weigt).
Winner of the 4th Reimut Jochimsen Prize, awarded by the German Central Bank: "European Infrastructure Policy, Challenges for Future Energy Markets in the European Community." Top Ten SSRN download list for: Theory: Networks, Other (April 2008).
64. *Quasi-Rents and Pricing Gas in Mexico*, 2008, CIDE, E-423 (with D.L. Brito)
65. *Merchant Electricity Transmission Expansion: A European Case Study*, 2007, CIDE, E- 391, (with Tarjei Kristiansen).
66. *Toward a Combined Merchant-Regulatory Mechanism for Electricity Transmission Expansion*, 2007, CIDE, E-389 (with William Hogan, and Ingo Vogelsang).
67. *The political Economy of Solar Energy*, 2006, CIDE, E-357, (with Dagobert L. Brito)
68. *The Mexican Electricity Sector: Economic, Legal and Political Issues*, 2005, CIDE, E-342, (with Víctor Carreón, and A. Jiménez).
69. *Regulation of Natural Gas Pricing in Mexico*, 2005, CIDE, E-337.
70. *LNG in the Northwestern Coast of Mexico: Impact on Prices of Natural Gas in Both Sides of the US-Mexico Border*, 2005, CIDE, E-338 (with Sophie Meritet and Alberto Elizalde).
71. *Incentives for Supply Adequacy in Electricity Markets: An Application to the Mexican Power Sector*, 2005, CIDE, E-332, (with Víctor Carreón).

72. *Liquid Natural Gas and a New Policy for Pricing Gas in Mexico*, 2005, CIDE, E-314 (with D.L. Brito)
73. *Different Approaches to Supply Adequacy in Electricity Markets*, 2004, CIDE, E-298
74. *Implications of the Elasticity of Natural Gas in Mexico on Investment in Gas Pipelines and in Setting the Arbitrage Point*, 2004, CIDE, E-299 (with D.L. Brito)
75. *A Merchant Mechanism for Electricity Transmission Expansion*, 2003, CIDE, E-276 (with Tarjei Kristiansen).
76. *Pricing electricity transmission in Mexico*, 2003, CIDE, E-270.
77. *Different Approaches Towards Electricity Transmission Expansion*, 2003, CIDE, E-260
78. *Mexican Electricity Sector: Economic, Legal and Political Issues*, 2003, Center for Environmental Science and Policy, Stanford University, WP 05; also published as a CIDE working paper (with Víctor Carreón, and A. Jiménez).
79. *Privatization and Income Distribution in Mexico*, 2003, Instituto de Políticas Públicas y Estudios del Desarrollo, Mexico, WP 2003-05 (with Luis Felipe López-Calva).
80. *Strategic Behavior and the Pricing of Gas*, 2003, CIDE, E-259 (with D.L. Brito).
81. *A Solar Power Export Project in Mexico for the Californian Electricity Market*, Working Paper, E-230, CIDE, 2002 (with D. L. Brito).
82. *Pricing natural gas distribution in Mexico*, CIDE, E-229, 2002, (with José C. Ramírez & Juan Rosellón).
83. *A General Equilibrium Model of Pricing Natural Gas in México*, Working Paper, E-228, CIDE, 2002 (with Dagobert L. Brito).
84. *On the Potential Distributive Impact of Electricity Reform in México*, Working Paper, E-223, CIDE, 2001 (with Luis F. López – Calva).
85. *Incentives for Expansion of Electricity Supply and Capacity Reserves in the Mexican Electricity Sector*, Working Paper, E – 219, CIDE, 2001 (with Victor Carreón).
86. *Incentivos para la Expansión de la Red de Transmisión Eléctrica en México Mediante la Regulación de Precios*, Working paper, E- 210, CIDE, 2001 (with Armando Nevárez).
87. *Economic and Political Implications of New Developments in Thin Film Solar Technology*, Working Paper, E-201, CIDE, 2001 (with D.L. Brito).
88. *The Economic Rationale of the Structural and Regulatory Reform of the Mexican Electricity Sector*, Working Paper, E-199, CIDE 2001 (with Víctor Carreón).
89. *The Reform of the Natural gas Market in Mexico: Effects on Production and Distribution*, Working Paper, E-198, CIDE, 2000 (with Luis Felipe López Calva).
90. *Regulatory Reform in Mexico's Natural Gas Industry. Liberalization in the Context of a Dominant Upstream incumbent*, Working Paper, E-194, CIDE, 2000 (with Jonathan Halpern).
91. *Designing Natural Gas Distribution Concession in a Mega-city: the case of Mexico City*, Working Paper, E-193, CIDE, 2000 (with Jonathan Halpern).
92. *Timing of investment in LPG Pipelines in Mexico*, Working Paper, E-184, CIDE, 2000 (with D.L. Brito).
93. *Regulation of Gas Marketing Activities in Mexico*, Working Paper, E-165, CIDE, 1999 (with D.L. Brito).
94. *La Regulación de las tarifas de Distribución del Gas Natural en México: Un Modelo Estocástico*, Working Paper, E-142, CIDE, 1999 (with J. C. Ramírez).
95. *División Óptima de la Zona Metropolitana de la Ciudad de México para Fines de Distribución de Gas Natural*, Working Paper, E-121, CIDE, 1998 (editor).
96. *Pricing Natural Gas in Mexico*, Working Paper, CIDE E-120, 1998 (with D.L. Brito).
97. *Pricing Liquid Petroleum Gas in Mexico*, Working Paper, E-108, CIDE, 1998 (with D.L. Brito and W.L. Littlejohn).
98. *Una reseña sobre Temas Esenciales de La Economía de la Ciencia*, Working Paper, E-88, CIDE, 1997.

99. *Price and Rate Regulation for the Mexican Natural Gas Industry: Comments on Policy Decisions*, Working Paper, E-86, CIDE, 1997.
100. *El Impacto del TLC en las Relaciones de Comercio e Inversión entre la CE y México (una Reseña de la Investigación y la Información Empírica)*, Working Paper, CIDE, E-43, México, 1995.
101. *Rules of Origin and Welfare Analysis*, Working Paper, CIDE, E-19, México, 1994.
102. *The Basic Economics of Rules of Origin*, Working Paper, CIDE, E-18, 1994 (with Raúl Ramos).

Work in progress

- Electricity transmission:
 - Applications of the HRV model to large scale renewable systems (RES) (eg., DESERTEC project). Implies an “upgrade” of the HRV approach to deal with timing issues dispatch for RES systems.
 - Applications of the HRV model to various networks in Europe and North America (border and institutional issues).
 - FTR-based cost and demand functions (theoretical and empirical).
 - A general theory of networks.
 - Substitution trade-off between transmission and generation expansion.
 - Welfare-based merchant FTR auctions. The idea is to generate “pure-merchant” mechanisms that are able to produce welfare-enhancing FTR auctions.
 - Application of “pure” merchant mechanism to European TLC (trilateral market coupling) arrangements.
- Natural gas transmission expansion:
 - Application of the HRV mechanism to European natural-gas networks. Implies an “upgrade” of the HRV approach to deal with discrete issues in natural-gas systems (such as trade-offs between investment in pipelines, LNG terminals and storage facilities).
 - Experimental-economics analysis of transmission expansion projects.
 - Distributive issues on price regulation of Local Distribution Companies.
- Hydrocarbon sectors in Latin America. This research studies the political economy of hydrocarbon sectors in Latin America, through a comparative analysis. Environmental issues will also be addressed
- Economic and political implications of solar energy technological developments. This research will make a cost analysis of the recent developments in photovoltaic-cells, as well as CSP projects, and will discuss the political-economy implications. Public policies that promote technological innovation processes will also be addressed.