

# **ANDRES CHAMBOULEYRON**

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# **SUMMARY**

Andrés Chambouleyron is a managing director at Berkeley Research Group. He has 26 years of experience as an economist, valuation expert, consultant for public utilities (electricity, natural gas, water and sanitation, and telecommunications) and other regulated and non-regulated businesses. His work involves economic analysis, pricing and rate setting, valuation, business advisory, regulatory design and analysis, and damage assessment.

Dr. Chambouleyron has been involved in more than twenty-five arbitration cases both as case manager and expert witness assessing damages under the rules of AAA, ICSID, ICC, VIAC and UNCITRAL in Latin America, Europe, the US and Canada. He has worked and provided written or oral testimony in sectors ranging from electricity generation, transmission and distribution, natural gas and oil production, transportation and distribution, water and sanitation services, telecommunications and satellite services, fish meal manufacturing, pesticides, and car financing services. He has provided consulting services to both private companies and regulatory authorities in Argentina, Uruguay, Peru, Chile, Colombia, Ecuador, El Salvador, Dominican Republic and Mexico on regulatory issues such as interconnection rates and tariffs for both fixed and mobile telecommunication operators, X-productivity offset factors, and optimal tariff setting and design for price-cap regimes in telecoms, electricity and natural gas distribution companies, weighted average cost of capital estimation (WACC) for electricity and natural gas distribution and transportation companies.

In the public sector Dr. Chambouleyron has been Undersecretary of Tariff Policy at Argentina's Ministry of Energy and Mining, where he designed and implemented a subsidy reduction program for both electricity generation and natural gas wholesale prices and a social tariff regime for low-income families. After winning a public contest and getting the approval of Argentina's National Congress, he became chairman of the board of Argentina's National Electricity Regulator (ENRE), which regulates rates and quality of service for two electricity distribution companies in the Buenos Aires metropolitan area (six million users), one 500 KV electricity transmission company (fifteen million users), and seven 132 KV regional transmission companies. Dr. Chambouleyron has also been economic advisor to Argentina's Secretary of Communications (2000 – 2001), where he helped design and implement the country's new telecom regulatory framework (*i.e.*, interconnection, spectrum management, universal service, and licensing regimes); and advisor to Argentina's Finance Minister 2001 on regulatory issues.



Dr. Chambouleyron's research on pricing and regulatory issues has been published in several professional journals. He has collaborated in writing three chapters in three books related to regulatory and pricing issues. He has taught courses in microeconomics, industrial organization, and regulation at both undergraduate and graduate levels in local universities.

WWL International Arbitration Expert 2021 and 2022, WWL says: "In an international arbitration, he showed diligence and attention to detail and excellent analytical skills" "He managed to simplify and clarify a very complex subject for the arbitration panel and for that I recommend him to you without qualification" "He was extremely thorough in developing his opinion and it was very well grounded in the background and nuances of the case" "Andrés is a very sharp and accurate expert"

WWL Energy Expert 2021, WWL says: "Andrés Chambouleyron is regarded as "a true expert in his field" whose "understanding of energy economics is of the highest calibre".

# **EDUCATION**

Ph.D. Economics, The University of Texas at Austin, 1995 M.A. Economics, The University of Texas at Austin, 1992

B.S. Industrial Engineering (summa cum laude), UNC, Argentina,1990

# PROFESSIONAL EXPERIENCE

Mar 2020 – Pres: Berkeley Research Group (BRG). Managing Director. Provides expert oral/written testimony in investment/commercial arbitration cases and consulting/advisory services to both private firms and governments in areas such as electricity, natural gas, telecommunications and water/sanitation regulation, pricing, valuation & damage assessment. <a href="https://www.thinkbrg.com/professionals-andres-chambouleyron.html">https://www.thinkbrg.com/professionals-andres-chambouleyron.html</a>

Mar 2020–Pres: Institute of the Americas, La Jolla, CA. Non – Resident Fellow. Conducts research on energy transition and sustainability, renewable energy, distributed generation, https://iamericas.org/non-resident-fellows/

Feb 2018–Jan 2020: Argentina's Federal Electricity Regulatory Authority (ENRE). Chairman of the Board. Responsible for rate setting and quality of service regulation of 2 distribution companies in the Buenos Aires Metropolitan Area (6 million users) and 8, 550 kV and 132 kV transmission companies throughout the country (15 million users). Appointed after a public and open contest, ratified by Argentina's National Congress in December 2017 and by Presidential Decree 84/2017.

Dec 2015–Jan 2018: Ministry of Energy and Mining, Argentina. Undersecretary of Energy Tariff Policy. responsible for both electricity and natural gas wholesale price setting and subsidy reduction policy for 15 million users in electricity and 8 million in natural gas, social tariff setting for low-income families and especial tariff



- regimes for energy intensive industries and non-profit organizations. Appointed by Presidential Decree 271/2015.
- Mar 2011–Dec 2015: Compass Lexecon. Senior Consultant. International Arbitration Practice Group. Provided oral/written expert testimony in more than 10 investment and commercial arbitration cases and consulting advice to public and private clients in electricity, natural gas, water and sanitation and telecommunication regulation, mainly in price and rate setting, financial modeling and investment valuation.
- **1998–Mar 2011: LECG.** Affiliate. International Arbitration Practice Group. Provided oral/written expert testimony in more than 10 investment and commercial arbitration cases and consulting advice to public and private clients in electricity, natural gas, water and sanitation and telecommunication regulation, mainly in price and rate setting, financial modelling and investment valuation.
- **1995 2005**: **IERAL- Fundación Mediterránea, Argentina**: *Chief Economist*. Conducted research on public utility regulation with focus on natural gas and electricity distribution and transmission, telecommunications and water and sanitation, provided advice to both private firms and regulatory agencies on regulatory and antitrust policy, rate setting mechanisms.
- **2001–2001: Ministry of Economy, Argentina, Board of Economic Advisors.** *Economic Advisor to the Minister.* Provided advice to the Minister on infrastructure policy and public utility economics and regulation, antitrust policy and electricity and natural gas wholesale markets.
- 2000– 2001: Ministry of Infrastructure and Housing, Secretariat of Communications. Advisor to the Secretary. Provided advice to Mr. Secretary on the design and implementation of the new telecom regulatory regime (Presidential Decree 764/2000) that included Spectrum Management, Interconnection, Universal Service and License Regimes.
- **1990 1990: Intern, Industrias Metalúrgicas Pescarmona (IMPSA).** Worked in the production management and scheduling department.

# EXPERT TESTIMONY, VALUATION AND DAMAGE ASSESSMENT

- **Wind Power Generation, El Salvador:** Assessed damages and will provide expert oral testimony in a commercial arbitration claim filed by a windmill manufacturer against a logistical service provider. The arbitration will be held in Mexico City under the ICC rules.
- **Oil Production**, **Ecuador**: Assessed damages and will provide expert oral testimony in a commercial arbitration claim filed by an investor in the oil production services sector against an oil company. The arbitration will be held under the ICC rules.
- **Thermal Power Generation, Dominican Republic:** Assessed damages and will provide expert oral testimony in a commercial arbitration claim filed by an investor in the power generation sector against an electricity distribution company. The arbitration will be held under AAA rules.



- **Wind Power Generation**, **Mexico**: Assessed damages and will provide expert oral testimony in a commercial arbitration claim filed by an investor in the power generation sector against a manufacturer of wind turbines in Mexico. The arbitration will be held under ICC rules.
- **Broadband Internet. Peru:** Assessed damages and will provide expert oral testimony in an arbitration claim filed by a private investor in the internet sector in the Republic of Peru.
- 2020 Oil and Gas, Peru: Assessed damages and will provide expert oral testimony in an arbitration claim filed by an American oil and gas investor against Peru under UNCITRAL rules. Computed damages using both forward looking (FMV) as well as backward looking (lost profits) methodologies to assess damages to Claimant. Both discounted and updated at the company's weighted average cost of capital (WACC).
- 2012 Water and Sanitation, Hungary: Assessed damages and provided expert oral testimony in an arbitration claim filed by a French investor against a Hungarian city. Computed damages using the DCF methodology as the difference in the present value of the company's cash flows generated by the concession between but for and actual scenarios, both discounted at the company's weighted average cost of capital (WACC). Hearing took place in Vienna, December 2012.
- **Satellite Services**, **Brazil**: Assessed damages and served as expert in a commercial arbitration claim against a satellite service provider. Assessed damages following DCF, replacement and resale value of capacity approaches. Hearing took place in New York City in September 2011.
- **Fishmeal Exporting Company**, **Peru:** Assessed damages and provided expert oral testimony on behalf of the Defendant in an ICSID claim filed by a Chinese investor against the Government of Peru. The hearing took place in late May early June 2010 in Washington DC.
- **Financial Services**, **Argentina**: Assessed damages and provided expert oral testimony in an ICSID claim by an investor. Assessed damages based on the difference in the present value of the revenues collected from a stock of outstanding loans and lease contracts extended to car purchasers. The hearing took place in Washington CD between late November and early December 2009.
- **Water and Sanitation**, **Argentina**: Assessed damages using the DCF methodology as of December 2001. Assessed damages as the difference in the present value of the company's cash flows generated by the concession between but for and actual scenarios, both discounted at the company's weighted average cost of capital (WACC).
- 2007 Pesticide Industry, Canada: Assessed damages and provided oral expert testimony in an UNCITRAL (NAFTA) claim filed by an American investor. Assessed damages based on the profits foregone by a pesticide firm of a line of pesticides banned by the Government. Calculated foregone profits as the difference between simplified cash flows (revenues minus variable or avoidable costs) between two scenarios but for (without prohibition) and the Actual (with prohibition). Hearing took place in early September 2009 in Ottawa, Canada.



- **Electricity Generation**, **El Salvador**: Assessed damages and served as expert in an UNCITRAL claim filed by an American investor in El Salvador. Damages arose from the non- compliance of a PPA contract with an electricity transmission company owned by the Government. The hearing took place in Washington DC in late April early May 2009.
- **Water and Sanitation**, **Argentina**: Assessed damages for an investor using the DCF methodology as the difference in the present value of the company's cash flows generated by the concession between but for and actual scenarios, both discounted at the company's weighted average cost of capital (WACC). Assessed damages using the NCC and NCA methodologies.
- 2006 <u>Gas Distribution</u>, Argentina: Assessed damages arising from the failure to comply with a TOP contract. Damage to a gas distribution company was calculated based on the opportunity cost of natural gas or the cost of providing alternative fuels to natural gas on account of the failure of a gas production company to deliver the contracted amount of natural gas.
- **Electricity Distribution**, **Argentina**: Assessed damages using the DCF methodology as of December 2001 in an ICSID claim filed by an investor. Assessed damages as the difference in the present value of the company's cash flows generated by the concession between but for and actual scenarios, both discounted at the company's weighted average cost of capital (WACC).
- **Electricity Distribution**, **Argentina**: Assessed damages using the DCF methodology as of December 2001 in an ICSID claim filed by an investor. Assessed damages as the difference in the present value of the company's cash flows generated by the concession between the but for and Actual scenarios, both discounted at the company's weighted average cost of capital (WACC).
- 2005 <u>Electricity Transportation</u>, Argentina: Assessed damages using the DCF methodology as of December 2001 in an ICSID claim filed by an investor. Assessed damages as the difference in the present value of the company's free cash flows between but for and actual scenarios, both discounted at the company's weighted average cost of capital (WACC).
- 2005 <u>Gas Distribution</u> (2 companies), Argentina: Worked as case manager in an arbitration case that involved two gas distribution companies in Argentina. Assessed damages using the DCF methodology as of December 2001 in an ICSID claim brought by an investor. Assessed damages as the difference in the present value of the company's cash flows generated by the concession between but for and actual scenarios, both discounted at the company's weighted average cost of capital (WACC).
- **Fixed-Line Telecommunications**, **Argentina**: Assessed damages in an ICSID claim filed by an investor using the DCF methodology in two scenarios, actual and but-for, and separating regulated from deregulated services. Damages were computed only on the regulated portion of the business as the difference in equity values between the actual and but for scenarios.
- 2004 Water and Sanitation concession, Argentina: Valued a water concession using the DCF methodology as of August 1999 in an ICSID claim filed by an investor. Calculated the concession canon as the present value of the cash flows generated



- by the concession, discounted at the company's weighted average cost of capital (WACC)
- **Electricity Distribution**, **Argentina**: Assessed damages using the DCF methodology as of December 2001 in an ICSID claim filed by an investor. Assessed damages as the difference in the present value of the company's cash flows generated by the concession between the But for and Actual scenarios, both discounted at the company's weighted average cost of capital (WACC).

# **CONSULTING ENGAGEMENTS IN ENERGY**

- **2014** Electricity Distribution, Argentina: Calculated the Weighted Average Cost of Capital (WACC) for an electricity distribution company within the framework of its 5-year tariff review. The calculated WACC was then used to compute the company's optimal tariffs following the Discounted Cash Flow Approach (DCF).
- **Electricity Generation and Oil and Gas Production**, **Argentina:** Projected future electricity generation capacity (i.e. thermal, nuclear, hydro and renewable), oil and natural gas production (both conventional and non- conventional) and the investments needs for these 3 sectors until year 2023.
- **2007 Gas Production / Antitrust Policy, Argentina:** Analyzed a Gas producing company's contracts to determine the impact on competition of certain clauses that prohibited gas distributors from re selling their gas purchases from producers.
- **2006 Gas Production Prices**, **Argentina**: Forecasted gas prices at the well head and forecast gas prices for the period 2006 2011 using a demand and supply gas model.
- **Gas Production and Electricity Generation**, **Argentina**: Analyzed the potential impact on prices and the competition level of the merger of two energy companies in Argentina. The merger involved the potential for price increases in the upstream of natural gas sector in Argentina.
- 1998 <u>Electricity Distribution</u>, Buenos Aires, Argentina: Designed a new mechanism to finance expansions in the electricity transmission grid in the province of Buenos Aires. The novelty relied on abandoning the traditional and centralized method of assigning investment costs by "areas of influence" to a new scheme based on the formation of coalitions of users. This work was commissioned by Asociación de Prestadores Eléctricos de Buenos Aires (A.P.E.B.A).
- 1996 <u>Gas Distribution</u>, Argentina: Provided a critical economic assessment of the calculation of the X factor in the price cap formula for gas distribution in Argentina. This calculation was done following the TFP (backward looking) methodology leading to erroneous forecasts of productivity in the sector.
- **Gas Distribution**, **Argentina**: provided alternative regulatory measures for the gas distribution industry in Argentina. Proposed pass through mechanisms for the X and K terms in the price cap formula. Work commissioned by ADIGAS or Argentina's Gas Distribution Association.



# CONSULTING ENGAGEMENTS IN TELECOMMUNICATIONS

- **Price-Cap Tariff Review**, **Mexico**: Retained by both Mexican Telecommunications Authority (IFT) and Telmex as the third expert to compute the X productivity factor in Telmex's 2015 2018 Price Cap Review. Followed the TLRIC methodology to compute the optimal rate reduction in Telmex's three baskets of regulated fixed telecommunications rates.
- **2013** Valuation of 700 MHz Spectrum Band, Colombia: Retained by mobile telecom company to assess value of 700 MHz Spectrum band for mobile voice and internet services. Valuation technologies will include financial modeling of mobile companies, benchmarking and comparable analysis.
- 2012 Price-Cap Tariff Review, Mexico: Retained by both Mexican Telecommunications Authority (COFETEL) and Telmex as the third expert to compute the X productivity factor in Telmex's 2011 2014 Price Cap Review. Followed the TLRIC methodology to compute the optimal rate reduction in Telmex's three baskets of regulated fixed telecommunications rates.
- **Fixed and Mobile Interconnection Charges**, **Dominican Republic**: Retained by the Dominican Telecommunications Regulator INDOTEL to compute efficient charges for call termination in both fixed and mobile telecommunications networks. Developed a model to compute interconnection charges following the TLRIC methodology for both fixed and mobile hypothetically efficient operators.
- Provided advice to the Colombian Telecommunications Regulator (CRC) on how to devise and implement the wholesale offer of services and access to mobile and fixed telecommunications networks for retailers, also advised them on how to compute wholesale prices.
- **2009** Fixed Line, Mobile Telephony and Broadband Internet, Colombia: Provided strategic advice to the Colombian Telecommunications Regulator (CRT) on the design and implementation of wholesale offer, price regulations and access issues for mobile operators.
- **Fixed Line, Mobile Telephony and Broadband Internet, Colombia:** Provided strategic advice to the Colombian Telecommunications Regulator (CRT) and the Ministry of Telecommunications and Transportation (MTT) on how to devise and implement ex-ante regulation to fixed and mobile telecommunication operators with significant market power. Focused on the design and implementation of wholesale offer, price regulations and access issues for mobile operators.
- **Fixed Line Telephony**, **Peru:** Calculated the X factor for the price-cap regulatory regime the Total Factor Productivity methodology using historical data on capital, labor and materials provided by the company. Submitted results and a report to the Peruvian telecommunications regulator OSIPTEL and contrasted with the values obtained by the regulator.
- **Fixed Line Telephony**, **Argentina**: Assessed the fair market value of the regulated business of a fixed telecommunication carrier in Argentina. Computed optimal tariffs of all regulated services and the X productivity factor for an ICSID claim brought by a Spanish investor in the telecom sector in Argentina.



- **2004** Fixed Line and Mobile Telephony, Uruguay, URSEC: Provided guidelines to the Uruguayan Telecommunications Authority to deal with pre-merger control analysis and control of dominant positions in the telecommunications market.
- **Mobile Telephony**, **Argentina** Studied the impact of the merger of two mobile operators on market prices. Empirically estimated own and crossed elasticities of demand and simulated the merger to obtain estimates of post-merger price increases. Made final recommendation to the Argentine Antitrust Authorities (SCD) on the convenience of such a merger.
- **2003** Fixed Line Telephony, Argentina: Calculated market shares and estimated degree of effective competition of local telephony and long distance markets using price and traffic data in forty three local areas in Argentina.
- **2003** Fixed Line Telephony, Argentina: Calculated market shares and the degree of effective competition of public telephony and long-distance markets in the city of Buenos Aires, Argentina using data on prices, traffic and number of competitors.
- **Mobile Telephony**, **Chile:** Empirically estimated demand elasticities of access and usage for 4 mobile telephony firms in Chile. Also conducted a forecast analysis of traffic and number of lines for the period 2002 2008
- **2002** Fixed Line Telephony, Argentina: Empirically estimated of price and income elasticities of demand for the telephone sector in Argentina. Carried out the estimation at the local, domestic long distance and international levels.
- **Telecommunications and Postal Services**, **Argentina**: IADB's "Programa Sectorial de Apoyo a la Competitividad en la Provisión de Servicios de Infraestructura Económica y Productiva (AR-0281)". Consulting work aiming at assessing the degree of competition in the telecommunications and postal sectors and proposing policy measures to promote competition in both sectors.
- **Fixed Line Telephony**, **Argentina**: Conducted analysis of the competitiveness of the Argentine telecommunications market and the financial performance of the two major fixed line operators after the opening of the market. Report commissioned by the Japan Bank for International Cooperation (JBIC).
- **Fixed Line Telephony**, **Argentina**: Conducted analysis of the competitiveness of the Argentine telecommunications market and the financial performance of the two major fixed line operators after the opening of the market. Report commissioned by the Japan Bank for International Cooperation (JBIC).
- **2000** Fixed Line Telephony, Mexico: Calculated the interconnection costs faced by a long-distance telecommunications carrier to terminate long distance calls in the major local fixed network.
- **Fixed Line Telephony**, **Argentina:** Drafted a report on the competitiveness of the Argentine telecommunications market and the financial performance of the two major fixed line operators Telefonica and Telecom facing the deregulation of the market scheduled for November 2000. Report commissioned by the Japan Bank for International Cooperation (JBIC)



- **Internet Access**, **Argentina**: Drafted a research report on Information Technology and government policies to promote the widespread access to internet and the use of new technologies in Argentina. Consulting work commissioned by CICOMRA (Cámara de Industrias de las Comunicaciones de la República Argentina).
- 1999 <u>Fixed Line Telephony and Electricity</u>, Argentina: "The Competitivenes of the Argentine Economy". Provided recommendations on how to deregulate the telecommunications and electricity sectors in Argentina. Report commissioned by the Consejo Empresario Argentino (CEA).
- **1999** Fixed Line Telephony, Argentina: Conducted research and provided recommendations on how to deregulate Argenina's telecommunications market. Report commissioned by Argentina's Bank Association (ABA)

# OTHER CONSULTING ENGAGEMENTS

- **2013** Public Long Distance Transportation, Argentina: Provided economic advice to a local federation of businessmen in the public transportations sector on public transportation rates and subsidies from the federal government.
- 2010 <u>Cigarette Distribution Systems</u>, <u>Argentina</u>: Provided economic advice to a local cigarette manufacturing company in its submission to Argentina's Competition Commission (CNDC) responding to an accusation of foreclosure by independent distributors upon the implementation of an exclusive zoning distribution system (EZD).
- **Tax Burden in Public Utilities**, **Argentina:** Coordinated a workgroup set to identify and quantify the tax burden on public utilities in Argentina at the three levels: federal, provincial and municipal. The study compared the tax burden on telecoms (both fixed and wireless), electricity distribution, gas distribution and cable TV.
- **Public Urban Transportation**, **Córdoba**, **Argentina**: Consulting work on the public transportation system of the city of Cordoba. It consisted of three main topics: an origin destination survey of the population, a complete review of the pricing structure of the concession and an appraisal of the evolution of relative prices of the different transportation modes in the city.
- 1998 <u>Economic Deregulation</u>, Uruguay: Conducted a revision of all regulations in the service sectors in Uruguay and the proposals of eliminating them to create a more competitive environment for investment. This consulting work was commissioned and financed by the Government of the Republic of Uruguay, Budget and Planning Office.
- 1996 <u>Urban Development</u>, Córdoba, Argentina: Program "Desarrollo integral de las grandes aglomeraciones urbanas del interior del país, área Córdoba" BID AR 0151. Programa multi sectorial de pre-inversión, Loan BID 740 OC AR. Program on economic development of urban agglomerations in Argentina, particular case of Córdoba. Made recommendations on the levying of local taxes to finance the provision of local public goods.



#### **ACADEMIC EXPERIENCE**

- 2019 2019: Former member of the Board of Directors and professor of energy economics and regulation at Centro de Estudios de la Actividad Regulatoria Energética (CEARE) School of Law, Engineering and Economics, Universidad de Buenos Aires UBA.
- 2018 2018: Universidad Católica Argentina UCA, Business School: Director and Professor of Economics and Regulation in the Energy Business Management. http://uca.edu.ar/es/escuela-de-negocios/formacion-ejecutiva-yextension/energy-business-management
- 2015 2015: Universidad Torcuato Di Tella: Professor of Regulation of New Public Utilities in the Master's Degree program in Public Policy. <a href="https://www.utdt.edu/ver evento agenda.php?id evento agenda=2492&id item">https://www.utdt.edu/ver evento agenda.php?id evento agenda=2492&id item</a> menu=20047.
- **2001 2003:** Universidad Empresarial Siglo XXI: Professor of Microeconomics in the MBA Program, Córdoba, Argentina.
- **2003 2005:** Universidad Empresarial Siglo XXI: Professor of Microeconomics and Industrial Organization and Regulation in the Master of Arts in Economics program.
- 2000 2000: Universidad de San Andrés, Visiting professor of Industrial Organization
- **2000 2000:** Instituto Superior de Economistas de Gobierno (ISEG), professor of Industrial Organization and Regulation, Universidad de San Andrés campus
- 1998 1999: Universidad del CEMA: professor of Microeconomics II.
- **1996 2001:** Universidad Nacional de Córdoba, Department of Economics and Finance, Adjunct professor of Industrial Organization.
- **1992 1995:** The University of Texas at Austin, Department of Economics: Teaching assistant, Industrial Organization (Prof. David S. Sibley), Urban Economics (Prof. Paul W. Wilson) and Labor Economics (Prof. Stephen Bronars)

#### **HONORS AND AWARDS**

- Recognized as an International Arbitration Expert, Energy Expert and Global Leader by Who's Who Legal 2021 and 2022 <a href="https://whoswholegal.com/andrescha">https://whoswholegal.com/andrescha</a>
- Summa Cum Laude, Department of Industrial Engineering, Universidad Nacional de Cuyo, Mendoza, Argentina, 1990. Highest GPA in graduating class of 1990, 7.68 / 10
- Fellowship, Lyndon B. Johnson School of Public Affairs, The University of Texas at Austin, From August 1990 to August 1991.
- Good Neighbor Scholarship: from August 1991 to June 1992.
- Phi Kappa Phi: highest GPA (3.89 / 4.00), The University of Texas at Austin, April 1991



- Teaching and Research Fellowships; Department of Economics, The University of Texas at Austin, from august 1992 to august 1995
- Referee for the following Journals: Telecommunications Policy, Utilities Policy, Water Resources Management and Journal of Environmental Management

# **PUBLICATIONS AND WORKING PAPERS**

"Charting a New Path for Latin America's Electric Utilities after Covid" Institute of the Americas Policy Brief, Energy and Sustainability Program, La Jolla, CA. <a href="https://user-9sigssx.cld.bz/Charting-a-New-Path-for-Latin-America-s">https://user-9sigssx.cld.bz/Charting-a-New-Path-for-Latin-America-s</a>

"Daily and Hourly Electricity demand during Lockdown: Evidence from Argentina" in the book "Energía en Tiempos de Pandemia" edited by Caio César Calcavanti, ISBN 978 - 989 - 33 – 1138 – 7, Lisbon, Portugal, November 2020, downloadable from <a href="www.evex2020.com/es">www.evex2020.com/es</a>

Mitigating Expropriation Risk through Vertical Separation of Public Utilities: The Case of Argentina, Utilities Policy, 30 (2014) 41-42, downloadable from <a href="http://www.sciencedirect.com/science/article/pii/S0957178714000460">http://www.sciencedirect.com/science/article/pii/S0957178714000460</a>

Costos de Transacción, Governance y Riesgo de Expropiación en Servicios Públicos (2013) Asociación Argentina de Economía Política, Rosario, November 2013, downloadable from <a href="http://www.aaep.org.ar/anales/works/works2013/chambouleyron.pdf">http://www.aaep.org.ar/anales/works/works2013/chambouleyron.pdf</a>

Book "*Progresos en Organización Industrial*" (2006) Editado por Germán Coloma, Asociación Argentina de Economía Política, chapter "Teoría del monopolio desregulado." Downloadable from <a href="https://aaep.org.ar/publicaciones/download/organizacion\_industrial.pdf">https://aaep.org.ar/publicaciones/download/organizacion\_industrial.pdf</a>

"Asset Base Circularity in Privatized Utilities" con Manuel A. Abdala y Pablo T. Spiller, Mimeo, August 2006.

"Optimal Water Metering and Pricing" Water Resources Management, Volume 18, No. 4, page 305 – 319, August 2004, downloadable from <a href="http://link.springer.com/article/10.1023%2FB%3AWARM.0000048470.25647.16?Ll=true#">http://link.springer.com/article/10.1023%2FB%3AWARM.0000048470.25647.16?Ll=true#</a>

"An Incentive Mechanism for Decentralizaed Water Metering Decisions" Water Resources Management, Volume 17, No. 2, April 2003, downloadable from <a href="http://link.springer.com/article/10.1023/A:1023638823691#">http://link.springer.com/article/10.1023/A:1023638823691#</a>

"ISP Interconnection and Flat – Rated Internet Pricing" (2002) downloadable from <a href="http://papers.ssrn.com/sol3/papers.cfm?abstract\_id=316491">http://papers.ssrn.com/sol3/papers.cfm?abstract\_id=316491</a>

"Estrategias de entrada en telefonía local: opciones para Argentina" Asociación Argentina de Economía Política, Córdoba, noviembre 2000, downloadable from <a href="http://www.aaep.org.ar/anales/works/works2000/chambouleyron.pdf">http://www.aaep.org.ar/anales/works/works2000/chambouleyron.pdf</a>

"Barreras a la competencia en telecomunicaciones: Un estudio comparado" Asociación de Bancos de Argentina (A.B.A), julio 1999

"Transmission Investment in Competitive Power Systems: Decentralizing Decisions in Argentina", artículo Viewpoint, publicado para el Banco Mundial, September 1999 (with Manuel Abdala) downloadable from <a href="http://siteresources.worldbank.org/EXTFINANCIALSECTOR/Resources/282884-1303327122200/192abdal.pdf">http://siteresources.worldbank.org/EXTFINANCIALSECTOR/Resources/282884-1303327122200/192abdal.pdf</a>



- "Opciones de regulación para mecanismos descentralizados de inversión privada en transmisión eléctrica" (with Manuel Angel Abdala), AAEP, Mendoza, November 1998, <a href="http://www.aaep.org.ar/anales/works/works1998/abdala\_chambouleyron.pdf">http://www.aaep.org.ar/anales/works/works1998/abdala\_chambouleyron.pdf</a>
- "Crimen y castigo en Argentina: Un enfoque empírico" Estudios, Year 21, No. 85, April June 1998.
- "Determinantes de la delincuencia en las provincias argentinas: Un análisis con datos en panel" (with L. Navarro) in Corrupción, Crimen y Justicia: una perspectiva económica, M. Cárdenas y R. Steiner Editors, LACEA, Bogotá, Colombia, 1997
- "1999: ¿ Se des regulan las telecomunicaciones?" Novedades, Year 20, No. 203, March April 1998.
- "¿Conviene instalar medidores de agua en los inmuebles?" Novedades, Year 20, No. 202, January February 1998.
- "El impacto económico de la micromedición del consumo residencial de agua potable: Un ejercicio de simulación" Estudios, Year XX, No.81. April June 1997.
- "Instrumentos financieros para neutralizar la volatilidad del precio spot en el MEM" Estudios, Year XX, No. 80. January March 1997.
- "La Privatización de los Servicios Públicos en las Provincias: Algunas Consideraciones" Novedades, Year XVIII, No. 189, September 1996.
- "Congestión Urbana y Tamaño Óptimo de Ciudad: Algunas Reflexiones" Asociación Argentina de Economía Política, Buenos Aires, August 1996.
- "Nuevas propuestas para rebalancear las tarifas telefónicas: y va n..." Novedades, Year XVIII, No. 187, July 1996.
- "Un Modelo de Regulación Alternativo para la Distribución del Gas en Argentina" Estudios, Year XIX, April June 1996.
- "La desregulación de las telecomunicaciones: Un aporte al debate" Novedades, Year XVIII, No.182, February 1996.
- "La reestructuración tarifaria del servicio telefónico: Un análisis de las propuestas" (with Juan Novara) Novedades, Year XVII. No. 179/180. November Dicember 1995.
- "La Nueva Ley de Patentes y su Efecto sobre los Precios de los Medicamentos" Estudios, Year XVIII, October December. 1995.

# COURSES, SEMINARS and CONFERENCES

Society of Construction Law, North America, Speaker at the seminar "EPC Contracts and PPAs in Latin America during COVID 19" Thursday, October 28, 2021, <a href="http://www.scl-na.org/events/past">http://www.scl-na.org/events/past</a>

International Chamber of Commerce, Costa Rica, Speaker at the panel "EPC Contracts and PPAs in Latin America during COVID 19", September 2021, San José, Costa Rica. <a href="https://www.caicostarica.com/component/speventum/speaker/84-lstrongganfitrioneslstronggandres-alva-y-andres-chambo">https://www.caicostarica.com/component/speventum/speaker/84-lstrongganfitrioneslstronggandres-alva-y-andres-chambo</a>



Institute of the Americas, Speaker at the Energy and Sustainability Program, Annual Meeting in La Jolla, California, May 2021, 30<sup>th</sup> Anniversary, participated in a panel about "Electrifying Everything" <a href="https://iamericas.org/ioa/la-jolla-energy-conference-30th-edition/">https://iamericas.org/ioa/la-jolla-energy-conference-30th-edition/</a>

South America Energy Series 2021, moderated a panel of 6 CEOs of energy companies on "Powering the Energy Transition in South America" CEO Outlook: Powering the Energy Transition, Bogotá, Colombia, en <a href="https://energyseries-southamerica.com/user-profile/andres-chambouleyron">https://energyseries-southamerica.com/user-profile/andres-chambouleyron</a>

EVEx Expo/Business, participated in the panel "Descarbonização, Descentralização e Digitalização: O Futuro dos "3Ds" da Transição Energética" November 27, 2020 <a href="https://www.evex2020.com/es">www.evex2020.com/es</a>

Bío Bío Energía 2020, presentation on "Transmission pricing and investment, regional energy interconnection" <a href="http://2020.biobioenergia.com/">http://2020.biobioenergia.com/</a>

"The Madrid Conference: Where Europe meets Latin America", seminar organized by The Institute of the Americas & IPC Latin America, presentation on "Upgrades in Transmission Investment vs. Storage", Sep 28, 2020, <a href="https://www.iamericas.org/events/the-madrid-energy-conference-2020/">https://www.iamericas.org/events/the-madrid-energy-conference-2020/</a>

Institute of the Americas, Speaker at the Energy and Sustainability Program, Annual Meeting in La Jolla, California, May 18 – 22 2020, <a href="https://www.iamericas.org/wp-content/uploads/2020/07/XXIX">https://www.iamericas.org/wp-content/uploads/2020/07/XXIX</a> - Virtual La Jolla Energy Conference Report Web-1.pdf

Seminar on "The Nuclear Sector in Argentina's Electricity Supply" Nuclear Industry Summit Latin America (NISLA), Emperador Hotel, December 6, Buenos Aires, Argentina, <a href="http://nuclearlatin.org/">http://nuclearlatin.org/</a>

Workshop IDEAL on "Regulatory Challenges facing Public Utilities in Latin America" organized by Corporación Andina de Fomento (CAF), moderated panel on electricity, Montevideo Uruguay, 26 – 27 November.

Seminar on Gas & Power organized by Americas Gas & Power, presentation about "Regulatory Risk and Renewable Energy" Hotel W City of Panama, 20-22 November, 2019, <a href="https://americas-gasandpower.com/">https://americas-gasandpower.com/</a>.

Workshop on "Economic Models of Distributed Generation" organized by UTE, Monte video, Uruguay, November 1st, 2019.

Seminar on "Wind and Power" Expo Argentina 2019, presentation about "Regulation of Argentina's Electricity Sector" School of Engineering, Universidad de Buenos Aires, October 16, 2019. <a href="https://www.eventbrite.com.ar/e/viento-energia-expo-argentina-2019-organiza-aaee-tickets-71546011045">https://www.eventbrite.com.ar/e/viento-energia-expo-argentina-2019-organiza-aaee-tickets-71546011045</a>

Foro Latinoamericano de Energía, presentation about "Interconexión Eléctrica entre Argentina y Bolivia", Hotel Camino Real, 10 de octubre, Santa Cruz de la Sierra, Bolivia. https://www.sib.org.bo/noticias-sib/item/546-notaforo.html

Energy Council, South America Assembly: Southern Edition, presentation about "Transmission Grid Expansion Plans in Argentina and Chile: PPPs, JVs and other Financing Mechanisms, Hotel Alvear Icon, Buenos Aires, 10 -11 de September, 2019. <a href="https://www.energycouncil.com/event-events/south-america-assembly-southern-edition/">https://www.energycouncil.com/event-events/south-america-assembly-southern-edition/</a>



"The Madrid Conference: Where Europe meets Latin America", seminar organized by The Institute of the Americas y IPC Latin America, disertó sobre "Riesgo Regulatorio" en Argentina, Hotel Meliá Serrano, Madrid, 4-6 setiembre del 2019, <a href="https://www.iamericas.org/programs/energy-sustainability/the-madrid-energy-conference/">https://www.iamericas.org/programs/energy-sustainability/the-madrid-energy-conference/</a>

Oil, Gas and Energy, Argentina Summit 2019, presentation about el "Mercado Eléctrico en Argentina: Evolución Reciente y Perspectivas" Hotel Hilton, Buenos Aires, 11 de Julio del 2019, <a href="https://www.argentina-summit.com/">https://www.argentina-summit.com/</a>

Quantum Americas, speaker at the "Seminario Internacional sobre Regulación de Servicios Públicos" exposición sobre Generación Distribuida, San Carlos de Bariloche, 3 al 7 de Junio, 2019, <a href="http://guantumamerica.com/seminario-bariloche-2019/">http://guantumamerica.com/seminario-bariloche-2019/</a>

Institute of the Americas, Speaker at the Energy and Sustainability Program, La Jolla, California, 21 – 23 de Mayo del 2019, <a href="https://www.iamericas.org/programs/energy-sustainability/la-jolla-energy-conference/">https://www.iamericas.org/programs/energy-sustainability/la-jolla-energy-conference/</a>

Workshop on Electricity Economics, couse on "Economic Models of Distributed Generation", 15, 16 y 17 de Mayo, Escuela Iberoamericana de Regulación, Facultad de Derecho, Universidad de Buenos Aires <a href="https://www.ariae.org/novedades/detalle-de-los-cursos-de-la-eir-en-el-ano-2019">https://www.ariae.org/novedades/detalle-de-los-cursos-de-la-eir-en-el-ano-2019</a>

Asociación Iberoamericana de Entidades Reguladoras de la Energía (ARIAE) XXII Reunión de Reguladores de la Energía, presentaciones sobre "Mecanismos Regulatorios para la Reducción de Subsidios" y "Generación Distribuida en Latinoamérica", del 7 al 10 de Mayo, Punta Cana, República Dominicana, <a href="https://www.ariae.org/cooperacion-para-la-regulacion/reuniones-reguladores/xxiii-reunion-anual-de-reguladores-de-la-0.">https://www.ariae.org/cooperacion-para-la-regulacion/reuniones-reguladores/xxiii-reunion-anual-de-reguladores-de-la-0.</a>

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Distributed Generation: Challenges for Regulators, Semana de la Energía, Organización Latinoamericana de Energía (OLADE), Banco Interamericano de Desarrollo, Ministerio de Energía y Minería de Uruguay (MIEM), Montevideo, 10 al 14 de Diciembre de 2018, <a href="https://twitter.com/hashtag/SemanaDeLaEnergia2018?src=hash">https://twitter.com/hashtag/SemanaDeLaEnergia2018?src=hash</a>

Perspectiva de la red de transmisión de Argentina y el marco de gobernanza de la red, Conexión de Proyectos de energías renovables a la red como un desarrollo eficiente de transmisión, Congreso de Energías Renovables AIREC WEEK, 22 de Octubre de 2018, Hilton Puerto Madero – Buenos Aires, <a href="http://www.airecweek.com/ES">http://www.airecweek.com/ES</a>

Avances en la transición energética hacia energías no-convencionales — marco regulatorio e institucional, Conferencia de Inversionistas en Energías Renovables e Infraestructura Eléctrica, RENPOWER ARGENTINA 2018, 27 de Septiembre de 2018, Hotel Savoy, Buenos Aires, https://www.energiasrenovables.com.ar/Agenda%20-%20Renpower%20Argentina.pdf



Introduction to Argentina's Electricity Regulatory Framework, Seminar Korea's Embassy's Commercial Office (KOTRA), Corporación Coreana de Energía Eléctrica junto con 10 PyMes coreanas de sector de Energía Eléctrica, 10 de Septiembre de 2018, Sheraton hotel, Buenos Aires.

Situación actual del sector eléctrico y las necesidades/oportunidades de mejoras para así poder identificar las tecnologías más adecuadas para esta etapa de desarrollo de la red en la Argentina - Webinar Embajada de Canadá, 18 de Julio de 2018.

Recursos Energéticos Distribuidos y Energías Renovables, perspectivas desde la Regulación, Foro Latinoamericano de Energía, CACME, World Energy Council, 13 y 14 de Junio de 2018, Bariloche, <a href="http://www.cacme.org.ar/foroenergia2018/programa.html">http://www.cacme.org.ar/foroenergia2018/programa.html</a>.

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Testimonio oral frente a las comisiones de Presupuesto, Hacienda y Energía del Honorable Senado de la Nación sobre proyecto de Ley de Emergencia y Congelamiento Tarifario, 20 de Mayo de 2018, Buenos Aires, Argentina, <a href="https://www.youtube.com/watch?v=6TurJTpQAog">https://www.youtube.com/watch?v=6TurJTpQAog</a>

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Ministerio de Economía y Minería, Subsecretaría de Coordinación de Política Tarifaria, "Tarifa Social Federal para Servicios de Electricidad y Gas por Redes en Argentina", <a href="https://www.argentina.gob.ar/sites/default/files/tarifa social federal ene 2018 0 0.pdf">https://www.argentina.gob.ar/sites/default/files/tarifa social federal ene 2018 0 0.pdf</a>

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"Public Utility Regulation and Pricing" G25 meeting, Universidad Torcuato Di Tella, September and October 2013.

"Aspects of International Arbitration: An Economist's Perspective", World Link for Law presentation, Buenos Aires, October 15, 2009.

"El sector de gas natural en Argentina: Situación actual y perspectivas" Seminario about Strategies for Argentina's Development, IAE – Universidad Austral, 20 de octubre 2006

"La carta de acuerdo entre UNIREN y Telecom." Conference given during Telecom's public hearing in San Miguel de Tucumán, 18 de Mayo del 2006.

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- "Servicios Públicos para una Argentina Competitiva" 39 pre coloquio de IDEA, San Carlos de Bariloche, September 2003.
- "Hacia nuevas reglas de juego en infraestructura" Seminar organized by El Cronista and Fundación Mediterránea, Córdoba, June, 2003.
- "Competencia y Regulación de Acceso a Internet" 38 pre coloquio, IDEA, Buenos Aires, August, 2002.
- "Competencia y Regulación en Telecomunicaciones" seminar given to INDOTEL, Regulatory Body of Telecommunications in the Dominican Republic, Santo Domingo, August, 2001.
- "Carga tributaria sobre los servicios públicos" Seminar organized by the *International Institute* for Economic Research (IIER) Buenos Aires, March, 2001.
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- "Barreras a la entrada en telecomunicaciones" Seminar organized by the *Novum Millenium* Foundation, Buenos Aires, November, 2000.
- "Reformas en el sector de Telecomunicaciones" Seminar organized by the Argentine Association of Telecommunications Cooperatives, Buenos Aires, August, 2000.
- "La regulación por Price Cap: experiencia internacional" Seminar organized by the *International Institute for Economic Research (IIER)* Buenos Aires, April, 2000.
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- "Barreras a la competencia en telecomunicaciones: Un análisis comparativo" Convention of Asociación de Bancos de Argentina (A.B.A), Buenos Aires, June, 1999.
- "Tarificación óptima y micromedición de los servicios de agua potable" Seminar organized by the *International Institute for Economic Research (IIER)* Sao Paulo, Brasil, June, 1999.
- "Economic Reforms in Argentina 1991 1996" Seminar organized by the *Afrikaanse Handelsinstituut*, University of South Africa (Unisa), Pretoria, Republic of South Africa.

# **NEWSPAPER AND MAGAZINE ARTICLES**

**Inter Press Service, News Service,** "Latin American Electric Utilities COVID-accelerated Evolution", December 17<sup>th</sup>, 2020, <a href="http://www.ipsnews.net/2020/12/latin-american-electric-utilities-covid-accelerated-evolution/">http://www.ipsnews.net/2020/12/latin-american-electric-utilities-covid-accelerated-evolution/</a>

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**Foco Económico**, "La calidad del servicio eléctrico en el AMBA entre 2015 y 2019" October 7, 2020 <a href="https://focoeconomico.org/2020/10/07/la-calidad-del-servicio-electrico-en-el-amba-entre-2015-y-2019/">https://focoeconomico.org/2020/10/07/la-calidad-del-servicio-electrico-en-el-amba-entre-2015-y-2019/</a>



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El Cronista (13/11/13): "Hacia un nuevo governance en servicios públicos"

La Nación (21/03/13): "Según el índice Big Mac en subte se viaja barato"

La Nación (07/07/13): "Como mejorar la calidad de la telefonía e internet móviles"

La Nación (15/07/06): "Señales peligrosas en el mercado de las naftas."

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El Cronista (22/03/06): "Hay que rever el mecanismo actual de inversión en infraestructura."

La Nación (06/11/05): "Los usuarios cambian el colectivo por el tren o el subte."

El Cronista (03/11/05): "Los trenes y la calidad de la gestión pública."

El Cronista (6/09/04): "Proyecto de Ley de Servicios Públicos: se puede mejorar."

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El Cronista (31/03/04): "Por qué desde 2002 creció tanto la demanda de gas natural."

El Cronista (03/03/04): "Siguen paralizadas las reformas en telecomunicaciones."

El Cronista (16/02/04): "La suba de las tarifas mayoristas, con un ojo en el FMI y otro en el invierno."



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# **LANGUAGES**

Excellent command of English and Spanish and very good in French and Portuguese.