

**EVALUATION OF CENTERS/INSTITUTES REPORT
PUBLIC UTILITY RESEARCH CENTER
WARRINGTON COLLEGE OF BUSINESS ADMINISTRATION
FY 07-08**

FUNDED/PROPOSED TEACHING/TRAINING GRANTS IN AREA OF FOCUS

Pricing and Analysis: A PURC/OOCUR Advanced Course in Utilities Management and Regulation

PURC Director Dr. Mark Jamison and PURC Director of Energy Studies Dr. Paul Sotkiewicz delivered a week-long course for 34 utility professionals from 11 nations in Nassau, Bahamas. The July 2007 advanced course was designed for utility regulators and industry professionals, and was co-sponsored with the Organisation of Caribbean Utility Regulators. \$50,400

Frontiers in Managing Reform and Regulation of Infrastructure Utilities in Africa

Dr. Sotkiewicz organized and delivered training sessions that examined overall trends in electricity reform at this August 2007 course of the Graduate School of Business, University of Cape Town in Capetown, South Africa. In attendance were 45 utility professionals from 12 nations. \$10,000

Basic Methods in Radio Spectrum Planning and Management: NTC Program in Thailand

Dr. Jamison designed and delivered this customized training program in Thailand for the National Telecommunications Commission (NTC) of Thailand. Allocating and assigning spectrum, auction management, approaches to resolving spectrum hoarding, and current trends in spectrum management were key topics during this August 2007 course. \$33,000

Four undergraduate and two graduate students engaged in research for this project.

Advanced Methods in Radio Spectrum Planning and Management: NTC Program in Gainesville

Dr. Jamison designed and delivered this customized advanced course in Gainesville for the National Telecommunications Commission (NTC) of Thailand. Auction design, spectrum valuation, spectrum trading, and unlicensed spectrum were key topics during this September 2007 course. \$91,300

Four undergraduate and two graduate students engaged in research for this project.

Basic Telecommunications Regulatory Training in Turks and Caicos Islands

Dr. Jamison designed and delivered this customized training program for regulatory and telecommunications professionals of the Turks and Caicos Telecommunications Commission. Telecommunications technologies, telecommunications operator practices, objectives and roles for regulatory agencies, interconnection issues, and the basics of radio spectrum management were topics examined during this October 2007 course. \$10,000

Sotkiewicz Awarded Fulbright Grant

Dr. Sotkiewicz was selected for a Fulbright Senior Specialists Grant in Economics at the University of the Republic in Montevideo, Uruguay. The grant enabled him to work with the faculty in the department of economics and the Institute of Electrical Engineering on issues related to electricity markets and regulation, as well as distributed generation and distribution tariff design during two weeks in October 2007. He also addressed the university faculty during the seminar, The Interaction of Electricity Markets and Regulation with Emissions Trading.

PURC Workshop: Elements of Regulatory Finance for FPSC

PURC Director of Water Studies, Dr. Sanford Berg, and Joel Houston, the Bank of America Professor in Finance in the WCBA at UF, designed and delivered an October 2007 finance workshop in Tallahassee for the Florida Public Service Commission.

Institute of Infrastructure Services (IIS) course

Participants at the November 2007 course, Utility Price Reviews: Toward Professional Excellence, learned about elements of rate design, regulatory mechanisms, and benchmarking during sessions taught by Dr. Sotkiewicz, a feature lecturer at the IIS course in Lusaka, Zambia. He also led participants through a spreadsheet exercise in conducting price reviews. \$6,000

PURC/World Bank International Training Program on Utility Regulation and Strategy

Since 1997, utility regulators, policymakers, and infrastructure managers around the world have traveled to Gainesville to participate in this two-week program, presented twice yearly and offered in cooperation with the World Bank. Participants learn problem-solving techniques and exchange ideas and experiences during an international forum for the dissemination of relevant best practices and research. In January 2008, there were 70 utility professionals in attendance from 30 nations. \$355,000

Seven undergraduate students, one economics Ph.D. student, one master's student, and the UF Cicerones assisted in the delivery of this program.

PURC Basic Course on Regulatory Economics for Telecommunications for ANACOM, Portugal

Dr. Jamison designed and delivered this March 2008 two-week program in Lisbon for the Portuguese telecommunications regulatory agency. Participants engaged in case studies and simulations on interconnection arrangements, assessing market competition, functional separations, and stakeholder processes. \$71,000

PURC Leadership Workshop: Practicing Leadership in a Political Environment: A One-Day Intensive Training Workshop for Emerging Leaders in Utility Policy

In attendance at the June 2008 workshop were 17 international participants from 12 different nations who examined the activities, behaviors, mindsets, and skills of a successful leader. \$8,200

PURC/World Bank International Training Program on Utility Regulation and Strategy

At the two-week program offered in June 2008, there were 99 utility professionals in attendance from 35 nations. \$548,100

Two economics Ph.D. students, one master's student, two undergraduate students, and the UF Cicerones assisted in the delivery of this program.

Wireless U. Communications Policy Seminar

PURC worked with CTIA – the Wireless Association® and the National Conference of State Legislatures (NCSL) to deliver this November 2008 communications policy seminar for state policymakers in Tampa. This effort sought to improve policymakers' understanding of the complex market dynamics, as well as the strategic imperatives and regulatory issues facing the communications industry today and in the future. \$32,300

Total – Funded/Proposed teaching/training grants in area of focus: \$1,215,300

FUNDED/PROPOSED RESEARCH PROJECT GRANTS IN AREA OF FOCUS

Research in Electricity Infrastructure Hardening

PURC is assisting Florida's electric utilities by coordinating a three-year research effort, begun in 2006, in the area of hardening the electric infrastructure to better withstand and recover from hurricanes. \$88,733

Three Ph.D. students have been engaged in this research.

Benchmarking Water Service and Sanitation Utilities of Central America

The Inter-American Development Bank (IDB) funded PURC to assemble benchmarking water/wastewater data, conduct an analysis of utility performance, and organize an October 2007 workshop in San Jose, Costa Rica. \$65,585

Competition Monitoring in the Telecommunications Market

This research project is a collaborative effort between PURC and Thammasat University in Thailand, beginning in November 2007. PURC researchers are writing three papers on telecommunications competition and participating in workshops in Thailand. \$65,495

Lifeline II Telecommunications Research

PURC was funded by AT&T and Embarq between December 2007 and March 2008 to conduct research on low-income households' use of telecommunications services and participation in Lifeline, the state's program to help make telephone service affordable to low-income residents. The research included three surveys. \$145,000

Body of Knowledge on Infrastructure Regulation (BoKIR)

The World Bank funded PURC to assume secretariat functions beginning in January 2008 for a project whose principal focus is an update of the BoKIR Web site, www.regulationbodyofknowledge.org. \$48,333

Florida Energy Systems Consortium (FESC)

PURC's director of Energy Studies was part of a leadership team that proposed a Center of Excellence for UF. The proposal eventually contributed to the development of FESC, which was formed by the Florida Legislature in 2008. FESC's organizational structure assures that leading research and development of critical importance to the Florida and national economies are developed, top students in multiple disciplines of energy are trained, and industry reaps the full benefits of the consortium's activities. The goal of the consortium is to become a world leader in energy research, education, technology, and energy systems analysis. PURC's director now assists FESC with research grants.

PURC is part of the first FESC project, addressing carbon cap and trade issues for Florida. This project, which began in early 2009, is managed by PURC's director of Energy Studies and a counterpart at Florida State University.

Two undergraduate students engaged in research on carbon policy in 2008, helping lay the foundation for this cap and trade research.

A Review of Multi-sector Regulator Agencies in Five African Countries

Dr. Jamison and Dr. Berg were part of a research team that produced analytical work on five selected African multi-sector regulatory agencies (MSRAs): Cape Verde, Gambia, Guinea-Bissau, Niger, and Senegal. The objective of the study, between April and August 2008, was to

assess the effectiveness of these MSRAs against a set of indicators related to (universal) access, quality of service, and sector growth. \$22,500

INVESTMENT OF C/I FUNDS IN GENERATING PILOT DATA FOR GRANTS

Benchmarking

Dr. Berg has worked with graduate students to build PURC's expertise in benchmarking research, resulting in grants from the World Bank, USAID, and proposed funding from the Inter-American Development Bank (IDB). Several business students remain engaged in benchmarking research.

Energy and the Environment

PURC researchers engaged in research on various energy and environmental issues, positioning the center to receive funding through FESC for research on carbon cap and trade policies. This research is now funded and under way.

PROMOTING AND FUNDING SEMINARS WITH C/I FUNDS (NOT CUSTOMARY DEPT SEMINARS)

PURC/CLA Leadership Development Program: Providing Leadership in Utility Policy

Utility commissioners from the U.S. and Canada attended this November 2007 seminar, offered in conjunction with Cambridge Leadership Associates that examined how utility regulators can provide leadership on today's critical regulatory issues.

PURC/CLA Leadership Development Program: Providing Leadership in Utility Policy: Federal and State Leadership Roles in Energy Policy

Utility commissioners from the U.S. attended this February 2008 seminar, offered in conjunction with Cambridge Leadership Associates that examined the leadership skills needed to help our nation confront challenging energy policy issues.

PROMOTING AND FUNDING MAJOR CONFERENCES IN AREA OF FOCUS

TPRC 36th Research Conference on Communication, Information, and Internet Policy

PURC was an academic sponsor of this September 2007 event in Virginia. The conference included numerous academic papers from several countries, covering issues in telecommunications, Internet, and information policy.

35th PURC Annual Conference

The Real Climate Change: Planning and Investing Under Uncertainty was the theme of the 2008 conference February 5-6, 2008. Approximately 150 utility service providers, policymakers, and regulatory agency staff attended the event. Ashley C. Brown, executive director of the Harvard Electricity Policy Group at the Kennedy School of Government, was the recipient of the 2008 Distinguished Service Award. David Smith, head of the appellate, rulemaking and mediation section of the Florida Public Service Commission, was the recipient of the 2008 Gerald L. Gunter Distinguished Service Award.

One graduate student in business and five undergraduates assisted in the delivery of this conference.

2008 Conference of the International Academy of African Business and Development

PURC co-sponsored and provided funding for this May 2008 event at UF. Dr. Berg served on the program committee and is reviewing papers for publication.

Emerging Issues Policy Forum: Digital Pathway to U.S. Economic Recovery and Prosperity Summit

PURC was invited as the only academic center to develop the agenda and program materials for the October 2008 summit in Coral Gables. A bipartisan cross-section of industry, government, academic, and consumer-interest organizations focused on the unrealized potential of broadband as an economic stimulus to address this nation’s most pressing social issues. The event featured former FCC chairmen Michael Powell and Bill Kennard. At the conclusion of the event, PURC compiled a report with the Joint Center for Political & Economic Studies, a think tank located in Washington, D.C.

Communicopia: Market Dynamics in Telecommunications

PURC partnered with the Florida Communications Bar Association for the November 2008 seminar that examined the dynamic changes occurring in telecommunications in Tallahassee. Numerous speakers examined competitive and convergence issues for an audience that included legislative staff, regulatory staff, and numerous other professionals in the field.

Energy Policy Leadership Summit

PURC co-sponsored the December 2008 summit with Gee Strategies Group in Orlando. The seminar was designed for utility commissioners, state legislators, and the financial community. Also in attendance were representatives from Wall Street investment firms, electric industry leaders, representatives of the president-elect’s transition team, and a leading political analyst. The summit was designed as a post-election discussion about the implications of the November elections for energy policy in the United States.

EDUCATIONAL CORE OR ELECTIVE COURSES OFFERED IN AREA OF FOCUS

FUNDING GRADUATE STUDENTS FROM C/I FUNDS

Maria Cortón	\$13,566.76
Liangliang Jiang	\$2,647.50
Josh Kneifel	\$1,116.00
Andrew Nahlik	\$1,342.94
Michelle Phillips	\$8,497.18
Megan Silbert	\$3,828.96
Theju Somasundaram	\$1,330.96
Tuition and Waivers	\$7,097.28
Total	\$39,427.58

FUNDING TRAVEL FOR STUDENTS FROM C/I FUNDS

Yearly funds given to the Economics department for student travel: \$3,000

PROVIDING CORE LAB SUPPORT FOR RESEARCH OF MEMBERS

MENTORING JUNIOR FACULTY

Dr. Berg served as a mentor for Fulbright Visiting Scholar, Dr. Iram Khan from Pakistan during his stay between September 2007 and June 2008. Dr. Khan attended both the January and June 2008 programs of the PURC/World Bank International Training Program on Utility Regulation and Strategy. He served as a facilitator for the participants especially for those from Pakistan. Dr. Khan also had consultation with the economics faculty on topics regarding energy research. Dr. Khan developed a proposal submitted to the World Bank to develop e-learning modules for the Body of Knowledge on Infrastructure Regulation Web site.

FUNDRAISING ACCOMPLISHMENTS

AT&T	\$52,290
Embarq Florida	\$39,585
Florida Municipal Electric Assoc.	\$6,825
Florida Power & Light Company	\$52,290
Florida Public Service Commission	\$21,000
Gainesville Regional Utilities	\$5,670
Gulf Power Company	\$30,975
Progress Energy Florida	\$40,425
Tampa Electric Company	\$36,330

Total PURC Sponsorship FY2007-2008 \$285,390

PUBLIC PROGRAMS AND RESULTS OF THOSE PROGRAMS

Water and Wastewater conference in Mexico

UF graduate student Julie Padowski delivered the presentation, Survey of Benchmarking Methodologies: Improving Utility Efficiency, at a July 2007 water/wastewater event in Mexico City. The event attracted water utility managers, consultants, academics, and regulators from Mexico and around the world to share ideas and discuss problems associated with the legal and institutional framework of water and sanitation services.

Florida Energy Commission Advisory Group

Implementing revenue decoupling in rate design through the use of volumetric charges or multi-part pricing (SFV) charges was the focus of a presentation by Dr. Sotkiewicz at the July 2007 meeting of the Florida Energy Commission's Advisory Group on Energy Efficiency and Conservation in Orlando. In addition, Dr. Sotkiewicz facilitated a more general discussion for the Advisory Group on the rationales, outcomes, and open questions regarding energy efficiency and demand response programs.

FEPA Summer Conference

Coal and natural gas prices and their roles in recent electricity price changes in Florida were the focus of a July 2007 presentation by Dr. Sotkiewicz in Ponte Vedra Beach at the Florida Energy Pipeline Association Summer Conference.

Keynote Address for Thailand's King Adulyadej

Dr. Jamison delivered a keynote address in August 2007 at the First Academic Conference on the Auspicious Occasion of His Majesty Thailand's King Bhumibol Adulyadej's 80th Birthday Anniversary in Bangkok. One economics student engaged in research for this project.

Climate Action Team

Dr. Sotkiewicz was invited to speak before an August 2007 meeting of Governor Charlie Crist's Climate Action Team on Energy and Climate Change in Tallahassee. He also participated in a follow-up panel discussion with other speakers to answer questions posed by members of the Action Team.

World Bank project meeting in China

In August 2007, WCBA graduate student Liangliang Jiang, traveled to Liaoning province in China and met with government officials from the Liaoning Provincial Department of Finance, the Provincial Construction Department, and the Urban Construction and Renewal Project Office, respectively. Ms. Jiang's visit focused on Liaoning's GEF (Global Environmental Facility) project funded by the World Bank. The meetings involved exchanging ideas on three main issues: wastewater, garbage disposal, and human resource development. She also explored PURC's further collaboration with the Liaoning government. This trip was sponsored by PURC and the UF Water Institute.

Federal Communications Bar Association

PURC Policy Analyst Dr. Lynne Holt participated in a September 2007 panel review of key topics before the Federal Communications Commission during the meeting of the Florida Chapter of the Federal Communications Bar Association in Tallahassee.

FPSC Workshop presentation

Dr. Sotkiewicz delivered a presentation titled, Advantages and Drawbacks of Revenue Decoupling: Rate Design and Regulatory Implementation Does Matter, at the November 2007 Florida Public Service Commission's Workshop on Energy Efficiency Initiatives.

5th Organisation of Caribbean Utility Regulators Annual Conference

Attendees learned about the OOCUR as a network of regulatory agencies during a November 2007 presentation by Araceli Castañeda, PURC International Programs director, in Georgetown, Guyana. The presentation was adapted from the paper, Networks of Regulatory Agencies as Regional Public Goods: Improving Infrastructure Performance by Dr. Berg and Dr. Jacqueline Horrall.

Bandwidth-Driven Growth: Policy Essentials for Next Generation Development

This March 2008 seminar, delivered by Dr. Jamison in Lisbon, Portugal and sponsored by the Portuguese telecommunications regulatory agency, ANACOM, explored how telecommunications, and broadband in particular, affect economic growth and the regulatory policies that promote this development.

Training in Bulgaria

Dr. Berg participated in a March 2008 training program for water sector professionals from the Bulgarian State Energy and Water Regulatory Commission as part of PURC's collaboration with the law firm Pierce Atwood.

Universal Service Obligations and Regulatory Regimes: The Latin American Experience conference

In March 2008, Dr. Berg presented the paper, Water Utility Performance in Central America: The Political Economy of Coverage, Quality and Cost, in Barcelona, Spain at the Center for International Relations and Development Studies (CIBOD) conference. CIDOB will publish a book based on the presentations.

International Water Association Pi08 Conference

In March 2008, Dr. Berg presented the paper, Water Utility Benchmarking for Managerial and Policy Decisions: Lessons from Developing Countries, at the IWA Pi08 conference in Valencia, Spain.

Telecom Environment Management (TEM) 2008

Dr. Jamison delivered a keynote speech in April 2008 at TEM 2008 in Orlando that explored whether or not broadband will become an engine of economic growth.

Lifeline Presentation to Florida Public Service Commission

In a May 2008 presentation in Tallahassee to the Florida Public Service Commission, Dr. Jamison noted that low-income consumers are moving to wireless at a faster rate than higher-income households. The presentation summarized recent PURC research on the Lifeline telephone discount program.

Water Task Force Meeting

Dr. Berg, a member of the Water Allocations and Transfers Task Force, hosted a May 2008 meeting of the group at the University of Florida. The task force is one of several established by the Florida section of the American Water Works Association charged with creating a Florida 2030 Vision to address water issues in the state.

ITS conference

Dr. Jamison presented the paper, Getting What You Pay For: Analyzing the Net Neutrality Debate, at the June 2008 International Telecommunications Society conference in Montreal, Canada.

NATIONAL OR INTERNATIONAL RECOGNITION RECEIVED

EXCHANGES, AGREEMENTS, OR PLANNING INITIATED

In March 2008, PURC initiated an activities partnership with the Brazilian regulatory agency, Associação Brasileira de Agências de Regulação (ABAR). The partnership was formed to facilitate activities and initiatives that strengthen regulatory capacity and support research on infrastructure performance.

Brief critical review and evaluation of the C/I contributions to the university's mission of research, education, and service. The C/I should demonstrate how it adds value to the university that cannot be provided at the college, department, or division level.

PURC adds value to the university and to the state through programs that cannot be provided at the college or department level. PURC is an internationally recognized academic center dedicated to research and to providing training in utility regulation and strategy, as well as the development of leadership in infrastructure policy. Through its faculty-based initiatives and administrative capabilities, PURC involves

interdisciplinary and cross-sector specialists in its research, training, and outreach activities and actively contributes to raising the university's international profile.

PURC's mission is to enhance the understanding of issues confronting public utilities and regulatory agencies through conferences, seminars, and training programs; through research covering the energy, telecommunications, and water sectors; and by preparing students for careers in infrastructure industries.

PURC's programs teach the principles and practices that support effective utility policy, regulation, management, and leadership. With these tools, PURC researchers help government and industry officials develop efficient utility infrastructure to better meet the needs of their customers. PURC's extensive network of utility and regulatory experts around the world works with PURC to connect theory and practice in ways that extend the understanding of these sectors; PURC researchers deliver training programs in Florida, the nation, and around the world.

PURC's International Work

Since 1997, more than 2,000 regulators and managers from 139 nations of the world countries have attended PURC's flagship training program, the PURC/World Bank International Training Program on Utility Regulation and Strategy, a two-week course PURC offers in cooperation with the World Bank. Center faculty and staff also develop customized training programs in the U.S. and abroad that are tailored to the needs of the agency or organization. These programs are designed to teach the principles and practices that support effective utility policy and regulation.

PURC's Contribution to Programs

PURC's services derive from a large base of information exchange and research that is effectively fostered in a university setting. Since its establishment as a research center in 1972, PURC has developed a reputation for excellence attributable to staff, students, and colleagues. PURC's research activities, the resulting materials and technical support, and the students who assist in those research endeavors are the foundation of the services PURC staff provides to regulatory practitioners in this country and abroad. PURC leverages the funding received from its Florida sponsors and from fees generated by international training courses and outreach activities to involve faculty from various disciplines and specialists in infrastructure policy.

Funds received from fee-based training and research programs (not including sponsor support), cover only the costs of outreach and do not easily allow for new training and research initiatives. Given that most of the salaries and other expenses are covered by PURC's Florida sponsors and fee-based programs, the return on the state's and the university's investments in office space and general faculty support for PURC has been substantial in terms of service to the state, nation, and world.

PURC has a strong track record of addressing issues that have high state, national, and international impact and visibility. With the internationalization of the university's curriculum and outreach activities, infrastructure regulatory issues become of greater importance—from both a pedagogical and public policy standpoint. PURC projects extend beyond traditional department and college boundaries, with initiatives bringing significant value to the university and the state.

Public Utility Research Center
Publications and Working Papers

FY07-08

Berg, Sanford V., and Maria Luisa Cortón. 2008. "Benchmarking Water Utilities: Central America." *Water21—Special Issue on Benchmarking in Latin America*, (February): 27-28.

Berg, Sanford V., and Jacqueline Horrall. 2008. "Networks of Regulatory Agencies as Transnational Public Goods: Improving Infrastructure Performance." *Review of International Organizations*, 3(2): 179-200.

Berg, Sanford V., and Chen Lin. 2008. "Consistency in Performance Rankings: The Peru Water Sector." *Applied Economics*, 40(6): 793-805.

Chiang, Eric P., and Surendra Lal Hada. 2008. "Telecommunications Competition, Rate-Rebalancing, and Consumer Welfare in Nepal." *International Journal of Business Research*, 8(13):42-52.

Cortón, Maria Luisa, and Alejo Molinari. 2008. "ADERASA's Role in Regulatory Collaboration in the Americas." *Water21—Special Issue on Benchmarking in Latin America*, (February): 23-26.

Hauge, Janice A., Mark A. Jamison, and Richard Gentry. 2008. "Bureaucrats as Entrepreneurs: Do Municipal Telecommunications Providers Hinder Private Entrepreneurs?" *Information Economics and Policy*, 20(1): 89-102.

Hauge, Janice A., Mark A. Jamison, and R. Todd Jewell. 2008. "Discounting Telephone Service: An Examination of Participation in the Lifeline Assistance Program Using Panel Data." *Information Economics and Policy*, 20(2): 135-149.

Hauge, Janice, Mark A. Jamison, and R. Todd Jewell. 2007. "Participation in Social Programs by Consumers and Companies: A Nationwide Analysis of Participation Rates for Telephone Lifeline Programs." *Public Finance Review*, 35(5): 606-25.

Holt, Lynne, and Mark A. Jamison. 2008. "Federal Regulation and Competitive Access to Multiple-Unit Premises: More Choice in Communications Services?" *Journal on Telecommunications and High Technology Law*, 6(2): 425-454.

Holt, Lynne, Paul Sotkiewicz, and Sanford V. Berg. 2008. "(When) to Build or Not to Build?: The Role of Uncertainty in Nuclear Power Expansion." *Texas Journal of Oil, Gas, and Energy Law*, 3(2): 174-214.

Jamison, Mark A. 2008. "The Regulator's Challenge: Providing Stability While Leading Change." *Network*, (30): 2-6.

Jamison, Mark A. 2007. "Leadership and the Independent Regulator." *GITAM Journal of Management*, 5(1). (World Bank Policy Research Working Paper WPS3620).

Lin, Chen, and Sanford V. Berg. 2008. "Incorporating Service Quality into Yardstick Regulation: An Application to the Peru Water Sector." *Review of Industrial Organization*, 32(1): 53-75.

Mbilima, Chola. 2008. "Water Supply and Sanitation in Zambia: Reform and Regulation." *Proceedings of the Institution of Civil Engineers, Municipal Engineer*, 161(4): 255-261.

Mugisha, Silver, and Sanford V. Berg. 2008. "State-Owned Enterprises: NWSC's Turnaround in Uganda." *African Development Review*, 20(2): 305-334.

Padowski, Julie. 2008. "Water Utility Regulation in Mexico: Sharing Lessons." *Water21—Special Issue on Benchmarking in Latin America*, (February): 29-30.

Quast, Troy. 2008. "Do Elected Public Utility Commissioners Behave More Politically Than Appointed Ones?" *Journal of Regulatory Economics*, 33(3): 318-337.

Sabbioni, Guillermo. 2008. "Efficiency in the Brazilian Sanitation Sector." *Utilities Policy*, 16(1): 11-20.

Woo, Chi-Keung, Brian Horii, Michele Chait, and Ira Horowitz. 2008. "Should a Lower Discount Rate be Used for Evaluating a Tolling Agreement than Used for a Renewable Energy Contract?" *Electricity Journal*, 21(9): 35-40.

Book Chapters

Armstrong, Mark, and David E. M. Sappington. 2007. "Recent Developments in the Theory of Regulation." In *Handbook of Industrial Organization Vol. 3*, ed. Mark Armstrong and Robert Porter. Amsterdam: North-Holland/Elsevier.

Berg, Sanford V., and Maria Luisa Cortón. 2008. "Water Utility Benchmarking for Managerial and Policy Decisions: Lessons from Developing Countries." In *Performance Assessment of Urban Infrastructure Services*, ed. Enrique A. Cabrera, Jr. and Miguel Angel Pardo, 307-320. London: IWA Publishing.

Berg, Sanford V. 2007. "Environmental Policy." In *Encyclopedia of Energy Engineering and Technology Vol. 2*, ed. Barney Capehart, 625-32. New York: CRC Press, Taylor and Francis.

Berg, Sanford V. 2007. "Public Policy for Improving Energy Sector Performance." In *Encyclopedia of Energy Engineering and Technology Vol. 3*, ed. Barney Capehart, 1193-1200. New York: CRC Press, Taylor and Francis.

Jamison, Mark A. 2007. "Regulation: Price Cap and Revenue Cap." In *Encyclopedia of Energy Engineering and Technology Vol. 3*, ed. Barney Capehart, 1245-51. New York: CRC Press, Taylor and Francis.

Jamison, Mark A. 2007. "Regulation: Rate of Return." In *Encyclopedia of Energy Engineering and Technology Vol. 3*, ed. Barney Capehart, 1252-57. New York: CRC Press, Taylor and Francis.

Jamison, Mark A. 2007. "The 1st Academic Conference on the Auspicious Occasion of His Majesty the King's 80th Birthday Anniversary: The Importance of Telecommunications Development." In *NTC Annual Review 2007 Vol. 1*, 58-87. Bangkok: National Telecommunications Commission of Thailand.

Sotkiewicz, Paul M. 2007. "Emissions Trading." In *Encyclopedia of Energy Engineering and Technology Vol.1*, ed. Barney Capehart, 430-37. New York: CRC Press, Taylor and Francis.

Sotkiewicz, Paul M., and Jesus Mario Vignolo. 2007. "Distributed Generation." In *Encyclopedia of Energy Engineering and Technology Vol. 1*, ed. Barney Capehart, 296-302. New York: CRC Press, Taylor and Francis.

Working Papers

Berg, Sanford V. 2008. "Water, Electricity, and Telecommunications in the Caribbean: Benchmarking Sectors and Systems." University of Florida, Department of Economics, PURC Working Paper.

Berg, Sanford V. 2008. "Water Utility Performance in Central America: The Political Economy of Coverage, Quality and Cost." University of Florida, Department of Economics, PURC Working Paper.

Berg, Sanford V., and William T. Muhairwe. 2008. "Promoting High Performance in SOEs: Lessons from Africa." University of Florida, Department of Economics, PURC Working Paper.

Berg, Sanford, and Claudia Vargas. 2008. "Bolivian Utility Regulation: Lessons for a Water Sector Agency." University of Florida, Department of Economics, PURC Working Paper.

Berg, Sanford V., and Araceli Castaneda. 2007. "OOCUR as a Network of Regulatory Agencies." University of Florida, Department of Economics, PURC Working Paper.

Berg, Sanford V., and Maria Luisa Cortón. 2007. "Benchmarking Central American Water Utilities, Executive Summary." University of Florida, Department of Economics, PURC Working Paper.

Berg, Sanford V., and Julie C Padowski. 2007. "Overview of Water Utility Benchmarking Methodologies: From Indicators to Incentives." University of Florida, Department of Economics, PURC Working Paper.

Carruthers, Celeste K. 2007. "Twombly and the Evolution of Telecom Regulation." University of Florida, Department of Economics, PURC Working Paper.

Chiang, Eric P., Janice A. Hauge, and Mark A. Jamison. 2007. "Subsidies and Distorted Markets: Do Telecom Subsidies Affect Competition?" University of Florida, Department of Economics, PURC Working Paper.

Corlett, Daniel, and Michelle Phillips. 2008. "Science-based Watershed Policy for Stream Corridors: Integrating Economic and Ecological Considerations." University of Florida, Department of Economics, PURC Working Paper.

Cortón, Maria Luisa, and Sanford V. Berg. 2007. "Benchmarking Central American Water Utilities, Final Report." University of Florida, Department of Economics, PURC Working Paper.

Hauge, Janice A., Eric P. Chiang, and Mark A. Jamison. 2008. "More Than a Lifeline: Low-Income Households' Telecommunications Preferences." University of Florida, Department of Economics, PURC Working Paper.

Holt, Lynne, and Mark A. Jamison. 2008. “Broadband and Contributions to Economic Growth: The U.S. Experience and Future Direction.” University of Florida, Department of Economics, PURC Working Paper.

Horrall, Jacqueline. 2007. “Influencing Infrastructure Performance through Cross-Border Networks of Regulatory Agencies.” University of Florida, Department of Economics, PURC Working Paper.

Jamison, Mark A., and Janice A. Hauge. 2008. “Getting What You Pay For: Analyzing the Net Neutrality Debate.” University of Florida, Department of Economics, PURC Working Paper. Publication under Review.

Jamison, Mark A. and Janice A. Hauge. 2008. “Dumbing Down the Net: A Further Look at the Net Neutrality Debate.” University of Florida, Department of Economics, PURC Working Paper.

Jamison, Mark A., and Janice A. Hauge. 2008. “Will Packets Wait? The Effects of Net Neutrality on Network Performance and Consumers.” University of Florida, Department of Economics, PURC Working Paper.

Jamison, Mark A., and James Sichter. 2008. “U.S. Experiences with Business Separation in Telecommunications.” University of Florida, Department of Economics, PURC Working Paper.

Jiang, Liangliang, and Chen Lin. 2008. “Do Firms Overstate Their Costs? A Test on Moral Hazard in Telecommunications Subsidies.” University of Florida, Department of Economics, PURC Working Paper.

Kneifel, Joshua. 2007. “Effects of State Government Policies on Electricity Capacity from Non-Hydropower Renewable Sources.” University of Florida, Department of Economics, PURC Working Paper.

Lee, Sangwon, and Mircea I. Marcu. 2007. “Fixed and Mobile Broadband Deployment: An Empirical Analysis of Adoption Factors.” University of Florida, Department of Economics, PURC Working Paper.

Silva, Hamilton. 2007. “Cost Efficiency in Periodic Tariff Reviews: The Reference Utility Approach and the Role of Interest Groups.” University of Florida, Department of Economics, PURC Working Paper.

Case Studies

Jamison, Mark A. 2007. “Pricing Radio Spectrum.” University of Florida, Department of Economics, PURC Case Study, 2007-3.

Jiang, Liangliang, and Mark A. Jamison. 2007. “Auctions for Radio Spectrum (A).” University of Florida, Department of Economics, PURC Case Study, 2007-1A.

Jiang, Liangliang, and Mark A. Jamison. 2007. “Auctions for Radio Spectrum (B): First-Price Simultaneous Ascending Auctions.” University of Florida, Department of Economics, PURC Case Study, 2007-1B.

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