

Gregory Rivera-Chico, PE, MSEE

Professional experience

2017-Present Puerto Rico Electric Power Authority
Assistant Division Chief, Planning and Research Division

- Collaborates with the Planning and Research Division Head in the planning, direction, coordination, and supervision of the studies related to PREPA's electrical system generation, transmission, distribution, and financial planning.
- Worked directly in issues related to rate structure, rate studies, Integrated Resource Plan, and assisting PREPA's restructuring team.
- Served as a witness in cases before the Puerto Rico Energy Bureau (previously Energy Commission), such as:
 - Aguirre Offshore Economic Analysis (2017)
 - Implementation of New Rate Structure (2018)
 - Integrated Resource Plan (2018)

2014-2017 Puerto Rico Electric Power Authority
Superintendent – Planning and Research

- Supervised the Rate Studies, Projections and Statistics, Engineering Development, and Capital Improvement offices of the Planning and Research Division.
- Served as the Project Manager of significant technical studies with external consultants:
 - Renewable Integration Study – Siemens (2014)
Study to determine the maximum amount of renewable energy that could safely be integrated into PREPA's electric grid.
 - System Stability Study – Siemens (2014)
Study to determine the minimum amount of steam generation, subject to MATS rules, which would be required to maintain safe and reliable electric system operations.
 - Integrated Resource Plan – First Stage – Leidos (2014)
First stage IRP to comply with PREPA's restructuring agreement and begin to determine the most advantageous generation scenarios to provide reliable electric service while meeting current laws, environmental regulations, and regulatory issues.
 - Integrated Resource Plan – Second Stage – Siemens (2015)
Second stage IRP to comply with PREPA's restructuring process and local regulatory requirements. It's purpose is to determine the best scenarios for reliable electric service while meeting the new stringent environmental regulations, technical realities, and financial limits.

- Rate Revision – Navigant Consulting (2015)
Managed PREPA's new rate proposal, which included a cost of service study, new rate designs and revenue requirements, which had not been revised in over 25 years. These processes were also done in coordination with PREPA's restructuring process.

2010-2012 Puerto Rico Electric Power Authority
Head, Metering and Wholesale Customer Division

- Supervised the Wholesale Customer Office, Remote Metering Office, and the Metering Laboratory.
- With the Wholesale Customer Office, managed the customer contacts and billing of over 12,000 customers who represent half of PREPA's sales.
- Managed the implementation of remote disconnectible smart meters in PREPA's AMR system, and the remote customer disconnections for non-payment.

2001-2009,2013 Puerto Rico Electrical Power Authority
Manager, Engineering Systems Development Department

- Supervised and coordinated investigations and deployments of new technologies for use at PREPA.
- Supervised the budgeting, purchase, upgrade and installation of personal computers and servers for use at the Planning and Research Division. Supervised the managing of the security and usernames for all the systems used in the Division.
- Researched the use of new software applications and operating systems before implementing their use in the Division.
- Oversight of the installation and operation of Itron's MV-90xi meter reading and data analysis system. Established routines for the processing and remote reading of meters, both for studies and billing. Provided assistance to the system users in reporting, reading, and configuring electronic billing and research meters.
- Investigated and coordinated the technologies used for the remote meter reading system for PREPA's major transmission voltage clients using cellular data modems. Also prepared routines and procedures for transferring billing determinants for these remotely read meters.
- Established the configuration for advanced ION meters for use in large co-generation plants, advanced customer metering, and distribution substations along with SCADA monitoring.
- Oversight of the installation and operation of the Lightning Detection and Location Network for PREPA.
- Participated in the technical groups formed to assure compliance to PURPA and establish guidelines for PREPA's adoption of Distributed Generation, Net Metering, and Smart Grid initiatives.
- Supervised the development and implementation of a centralized Oracle web based system for the development of PREPA's five year Capital Improvements Program.
- Coordinated the development of the Customer Service System

Billing History Data Warehouse using Oracle, and established reports requested from the Customer Service Directorate, to investigate and detect energy theft.

- Established the use of ESRI ARCMAP GIS software at the Planning and Research Division as an essential tool in viewing the utilities assets. Coordinated the digitizing of essential data layers and helped coordinate the use of common base map data with the Engineering Directorate.
- Assisted in the establishment of the Planning and Research Division's weather monitoring network, providing technical assistance in the configuration, location, data management and the publishing of data to PREPA users.
- Managed the Division's web page for use by PREPA.
- Managed the administrative affairs of the Department, dealing with work schedules, time sheets, union and management employees, interviews, training, budgeting, and purchases.
- Managed the software support and licensing contracts for the specialized software used by the Planning and Research Division.

1998-2001 Puerto Rico Electrical Power Authority
General Supervisor – Distribution Planning Studies Department

- Managed the load research studies performed by the Department, coordinating data collection at the 300 distribution substations served by PREPA.
- Coordinated meter purchases and installations in PREPA's distribution substations.

1990-1997 Puerto Rico Electrical Power Authority
Electrical Engineer Supervisor I, II, and III - Distribution Planning Studies Department

- Performed load research, distribution feeder studies, and long term load distribution studies.

Education

1994-1996 Georgia Institute of Technology
Masters of Science in Electrical Engineering

- Concentration in Power Engineering

1985-1989 University of Hartford
Bachelors of Science in Electrical Engineering

- Summa Cum Laude
- Minor in Mathematics

Professional memberships

Professional Engineer License #10857
Puerto Rico College of Engineers and Land Surveyors