

E-100 Sub 98



July 24, 2017

Martha Lynn Jarvis
Chief Clerk
North Carolina Utilities Commission
Office of the Chief Clerk
430 North Salisbury Street
Raleigh, NC 27603-5918

Dear Ms. Jarvis,

I would like to nominate myself, Jeff Hughes, for appointment to the Energy Finance seat on the North Carolina Green Power Board of Directors in order to serve an additional term (I currently hold the Energy Finance seat on their Board of Directors). I am a faculty member at the UNC School of Government as well as the Director of the University's Environmental Finance Center.

I work extensively in the area of energy and environmental finance and have over 25 years of related professional experience (see attached CV that shows my experience) as an educator, researcher, policy analyst, consultant, and utility practitioner. I have a master's degree in environmental engineering from the University of North Carolina at Chapel Hill with a focus on environmental economics and a bachelor's degree in engineering from Duke University with a focus on energy.

Based on my wide-ranging knowledge of energy finance issues and breadth of professional endeavors, I am confident that I would continue to bring a unique perspective and expertise to the NCGP Board of Directors. It is with great enthusiasm that I nominate myself to serve on this board.

Thank you for your consideration of this nomination. My contact information, as requested is included below.

Sincerely,

Director, Environmental Finance Center
UNC School of Government
CB #3330 Knapp Building
Chapel Hill, NC 27599
jhughes@unc.edu
(919) 843-4956

OFFICIAL COPY

JUL 24 2017

JEFFREY A. HUGHES

School of Government • CB# 3330 • UNC • Chapel Hill, North Carolina • 27599-3330
Phone : (919) 843-2528 • Fax: (919) 843-2528 • E-mail : jhughes@sog.unc.edu

EDUCATION

University of North Carolina School of Public Health, Chapel Hill, NC,
Master of Science in Environmental Engineering, Engineering and Economics, May 1992

Duke University School of Engineering, Durham, NC,
Bachelor of Science in Engineering, Focus on Energy, January 1985

PROFESSIONAL EXPERIENCE

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| <i>Director of the Environmental Finance Center</i> University of North Carolina at Chapel Hill, Chapel Hill, NC | 2003-Present |
| <i>Lecturer, School of Government</i> University of North Carolina at Chapel Hill, Chapel Hill, NC | 2008 – Present |
| <i>Associate Director of the Environmental Finance Center</i> University of North Carolina at Chapel Hill Chapel Hill, NC | 2001-2003 |
| <i>Environmental Finance Specialist</i> RTI International, Research Triangle Park, NC | 2000-2003 |
| <i>Senior Water Policy Advisor</i> RTI International, Warsaw, Poland | 1999- 2000 |
| <i>Director of Public Works</i> Chatham County Government, Chatham County, NC | 1996-1999 |
| <i>Energy Conservation Consultant</i> Sud Associates, Durham, NC | 1988-1989 |
| <i>Peace Corps Volunteer – Energy Efficiency</i> US Peace Corps, Mali, | 1986-1987 |

SAMPLE PUBLICATIONS

Options for Raising Capital for Residential Energy Loan Programs - This document outlines capital leveraging models and examples from across the country in which public funds were used to influence energy loan program capital.

<http://efc.unc.edu/projects/EnergyFinance/RaisingCapitalMemo.pdf>

Electricity Rates in North Carolina: Residential Electricity Rates and Pricing in North Carolina (Authors: Casey Wichman, Jeff Hughes)

<http://efc.unc.edu/publications/2011/ResidentialElectricityRatesandPricing.pdf>

Financing Local Government Distributed Energy Improvements. Evolving Local Government Roles in Community Energy Management, Jeff Hughes, Erin Riggs, May 2012
[http://efc.unc.edu/publications/2012/Evolving Local Government Roles in Community Energy Management.pdf](http://efc.unc.edu/publications/2012/Evolving%20Local%20Government%20Roles%20in%20Community%20Energy%20Management.pdf)

Jeffrey A. Hughes

Defining a Resilient Business Model for Water Utilities

Authors: Jeff Hughes, Peiffer Brandt, Mary Tiger, Shadi Eskaf, and Stacey Berahzer.

Publication: Water Research Foundation Report #4366. January 2014.

A large-scale quantitative analysis of the current revenue reality of water utilities and strategies for revenue resiliency.

Assessing Water System Revenue Risk: Considerations for Market Analysts

Authors: Jeff Hughes and Sharlene Leurig

Publication: A Ceres report. August 2013.

Investigation of capital funding in the water industry on the brink of extraordinary investments.

SERVICE

NCGreenPower Board of Directors. Director (2014 to Present)**UNC Policy Collaboratory Board of Advisors (2016 to Present)****Water Research Foundation Finance Advisory Committee.** Member of committee setting research agenda for leading industry water research foundation. (2013 to 2016)**Southeast Energy Efficiency Alliance Board of Directors.** Member. (2012 to Present)
Treasurer (2014-2016)**UNC Campus Sustainability Advisory Committee.** Committee charged with advising Senior Management on sustainability issues. (2010 to Present)**UNC System Energy Finance Work Group.** Task force lead charged with investigating energy finance tools to support 16 campus state system energy programs and services. (2012 to 2013)**USEPA Environmental Finance Advisory Board.** (2015 to Present)**Environmental Finance Center Network.** Network of 9 university applied research and community outreach centers. President (2008), Vice-President (2007) and Secretary (2006).**SAMPLE PRESENTATIONS, TEACHING, AND EDUCATION PROGRAMS**

UNC Graduate Course: Applied Environmental Finance. Graduate Course focusing on renewable energy finance and other environmental finance topics. Annually**Green Banking in the Southeast: Catalyzing Clean Energy Markets through Green Banks.**
Southeast Efficiency Policy Presentation. April 15, 2015

Jeffrey A. Hughes

Assessing the Financial impact of Energy Efficient Public Lighting. Duke Energy Outdoor Lighting Forum. February 27th, 2014

Financing Sustainable Energy Projects: Intersection of Policy and Finance Panel. Ninth Annual Sustainable Energy Conference, April 19, 2012, Raleigh, NC.

Financing and Implementing Energy Efficiency Initiatives: A Project-based Workshop. NC Department of Commerce Project Energy Conservation, March 7, 2012, Raleigh, NC. A project-based, one day course on the finance and implementation of energy projects tailored to the Community Development Division scale, focusing on projects that staff might initiate or encounter in their own communities.

Sustainability Financing. ICLEI Southeast Regional Workshop, October 12, 2011, Atlanta, GA. A presentation providing an overview of sustainability financing mechanisms.

Sustainable Financing Options for Sustainable Energy. Asia Pacific Clean Energy Summit and Expo, September 15, 2011, Honolulu, HI. Presentation on methods of financing sustainable energy projects and practices.

Go Green to Save Green. NC League of Municipalities Annual Conference, October 24, 2010, Winston-Salem, NC. Presentation on issues of energy and green projects for local governments.

Making Energy Work. NC Sustainable Energy Association Conference, September 30, 2010, Winston-Salem, NC. Presentation on new developments in the area of energy finance with a focus on public-private partnerships.

Utility Management Conference: Workshop on Communicating Financial Information. Co-organizer and facilitator for workshop focusing on communicating water financial information to governing boards. February 2014.