

Climate Impact Advisory Committee: Imran Sheikh

Subject: Online Form Submittal: Board and Commission Application
Date: Monday, January 4, 2021 8:08:10 PM

Board and Commission Application

Step 1

Application for Appointment to Whatcom County Boards and Commissions

Public Statement

THIS IS A PUBLIC DOCUMENT: As a candidate for a public board or commission, the information provided will be available to the County Council, County Executive, and the public. All board and commission members are expected to be fair, impartial, and respectful of the public, County staff, and each other. Failure to abide by these expectations may result in revocation of appointment and removal from the appointive position.

Title	Dr.
First Name	Imran
Last Name	Sheikh
Today's Date	1/4/2021
Street Address	4341 Gooding Ave
City	Bellingham
Zip	98226
Do you live in & are you registered to vote in Whatcom County?	Yes
Do you have a different mailing address?	<i>Field not completed.</i>
Primary Telephone	5108594672
Secondary Telephone	<i>Field not completed.</i>
Email Address	imran.a.sheikh@gmail.com

Step 2

1. Name of Board or Commission: Climate Impact Advisory Committee

Committee

Climate Impact
Advisory Committee
Position:

I have previous work or educational experience in the energy sector.

2. Do you meet the residency, employment, and/or affiliation requirements of the position for which you're applying?

Yes

3. Which Council district do you live in?

District 2

4. Are you a US citizen?

Yes

5. Are you registered to vote in Whatcom County?

Yes

6. Have you declared candidacy (as defined by RCW 42.17A.055) for a paid elected office in any jurisdiction within the county?

No

7. Have you ever been a member of this Board/Commission?

No

8. Do you or your spouse have a financial interest in or are you an employee or officer of any business or agency that does business with Whatcom County?

No

You may attach a resume or detailed summary of experience, qualifications, & interest in response to

[CV_ImranSheikh.pdf](#)

the following questions

9. Please describe your occupation (or former occupation if retired), qualifications, professional and/or community activities, and education

I am currently an Assistant Professor in the Institute for Energy Studies and Department of Environmental Sciences at WWU. I have over 15 years of experience working/researching/teaching in the energy/decarbonization space.

10. Please describe why you're interested in serving on this board or commission

I have deep experience related to decarbonizing the buildings sector. I believe I could be a valuable addition to the committee and serve the community.

References (please include daytime telephone number):

Field not completed.

Signature of applicant:

Imran Sheikh

Place Signed / Submitted

Bellingham, WA

(Section Break)

Email not displaying correctly? [View it in your browser.](#)

Imran A. Sheikh

Arntzen Hall 304, MS 9181
516 High St
Bellingham, WA 98225
(360) 650-6452
imran.sheikh@wwu.edu

EDUCATION

University of California, Berkeley

Energy and Resources Group
Master of Science, May 2010. Ph.D. August 2017
Dissertation Advisor: Duncan Callaway
Grade Point Average: 4.0/4.0

University of Wisconsin, Madison

College of Engineering, Department of Biomedical Engineering
Gaylord Nelson Institute for Environmental Studies, Certificate Program
Bachelor of Science with Distinction, May 2003
Grade Point Average: 3.7/4.0

PUBLICATIONS

- Barnhart, C. and Imran Sheikh. "Optimal use of domestic water heaters and batteries as a flexible energy strategy for power grid operations, carbon reductions and energy efficiency." *2020 ACEEE Summer Study on Energy Efficiency in Buildings*. Abstract accepted.
- Lynch, K., Dingus, O., Corbray, A. and Imran Sheikh. "Home Work: How Students Designed a Net-Zero Energy Tiny House." *2020 ACEEE Summer Study on Energy Efficiency in Buildings*. Abstract accepted.
- Sheikh, I. and Duncan Callaway. "Load estimation of electrified residential heating in California climates and the role of flexibility." In prep.
- Sheikh, I. and Duncan Callaway. "Load estimation of electrified residential heating in California climates and the role of flexibility." In prep.
- Sheikh, I and Duncan Callaway. "Decarbonizing space and water heating in temperate climates: the case for electrification." *Atmosphere*. 2019. (peer reviewed)
- Sheikh, I. "Decarbonizing residential space and water heating: The case for electrification." *ECEEE 2017 Summer Study Proceedings*. 2017. (peer reviewed)
- Sheikh, I. "Implications of electrified residential space heating in California." *Proceedings of the 2016 ACEEE Summer Study on Energy Efficiency in Buildings*. 2016. (peer reviewed)
- Lovins, A.B, Imran Sheikh and Alex Markevich. "Nuclear Power: Climate Fix or Folly?" In L. Nader (Ed.) *The Energy Reader*. Wiley. 2010.
- Lovins, A.B et al. "Factor Ten Engineering Design Principles." Rocky Mountain Institute. 2010.
- Kiliccote, S., P. Sporborg, I. Sheikh, E. Huffaker, M.A. Piette. "Integrating renewable resources in California and the role of automated demand response." Lawrence Berkeley National Laboratory. 2010.
- Supple, D. and Imran Sheikh. "Public Policies Driving Energy Efficiency Worldwide." Johnson Controls, Inc. 2010.
- Lovins, A. B. and Imran Sheikh. "The Nuclear Illusion." Rocky Mountain Institute. 2008.

- Lovins, A. B., Imran Sheikh and Alex Markevich. "Forget Nuclear." *RMI Solutions*. Spring 2008.
- Sheikh, I. and Amory B. Lovins. "Save more, pay less." *The Chemical Engineer*. September 2007.
- Sheikh, I. and Amory B. Lovins. "Wanted: Masters of Elegant Frugality." *Chemical Engineering Progress*. September 2006.
- Sheikh, I. "High heating costs provide opportunity for efficiency gains." *Mountain Business Journal*. 2 November 2005

GRANTS AND FELLOWSHIPS

- Snohomish County Public Utility District (PUD) Professor of Energy Studies (2019, \$14,500)
 WWU Sustainability, Equity, and Justice Fund
 Faculty Adviser for Project ZeNETH (2018, \$57,501)
 Sloan Foundation, Transmission and Distribution Research (2018, \$248,768, rejected)
 EPA Science to Achieve Results Fellowship (2014-2016; \$84,000)
 Robert Bosch Foundation Fellowship (2013-2014; \$50,000)
 NSF Graduate Research Fellowship (2009-2014; \$135,000)
 McCloy Fellowship in Environmental Policy (2010; \$6,000)

INVITED PRESENTATIONS

- "Decarbonization of residential space and water heating in California." Energy and Resources Group Colloquium. Berkeley, CA. November 2017. Oral presentation.
- "Lowest cost decarbonization of residential space and water heating in California." Sierra Club. Oakland, CA. November 2017. Oral presentation.
- "Decarbonizing residential space and water heating: The case for electrification." *2017 ECEEE Summer Study*. Hyères, France. May 2017. Oral presentation.
- "Implications of electrified residential space heating in California." *2016 ACEEE Summer Study on Energy Efficiency in Buildings*. Pacific Grove, CA. August 2016. Oral presentation.
- "Better Buildings Case Competition." *Aspen Institute and Urban Land Institute Global Forum on the Culture of Innovation*. San Diego, CA. September 2012. Oral presentation.
- "Interactions between Demand Response and Energy Efficiency." *Berkeley Energy and Resources Collaborative Innovation Expo*. Berkeley, CA. October 2011. Poster presentation.
- "Energy Efficiency and Risk." *Economics of Climate Change Group, Technical University of Berlin*. Berlin, Germany. August 2011. Oral Presentation.
- "Building Gateway for Energy Management." *Energy Institute at Haas—Cleantech to Market*. Berkeley, CA. May 2010. Oral presentation.
- "Factor Ten Engineering." *Engineering Sustainability 2007*. Pittsburgh, PA. April 2007. Poster and Oral presentations.
- "Advanced Design Integration for Radical Energy Efficiency." *Mechanical Engineering Seminar*. University of Bath, UK. November 2006. Oral presentation.
- "Advanced Design Integration for Radical Energy Efficiency." *MWH Sustainability Conference*. Broomfield, CO. July 2006. Oral presentation.

TEACHING EXPERIENCE

- “Electric Utility Resource Planning” Western Washington University. Winter 2020.
- “Campus Energy System Analysis” Western Washington University. Winter 2020.
- “Carbon Neutral and Energy Efficient Design” Western Washington University. Fall 2019.
- “Renewable Electric Power Systems” Western Washington University. Spring 2018, Spring 2019.
- “Applications in Energy Production” Western Washington University. Spring 2018, Spring 2019.
- “Energy and Environment” Western Washington University. Winter 2018, Winter 2019, Summer 2019 (online), Winter 2020.
- “Institute for Energy Studies Speaker Series.” Western Washington University. Winter 2018, Spring 2018
- “Energy and Society.” Energy and Resources Group, University of California, Berkeley. Graduate Student Instructor. 2010.

SERVICE

- Reviewer. *Joule*. 2019.
- Council on University Programs, WWU. 2019.
- Search Committee. Institute for Energy Studies, WWU. 2019.
- Ad-hoc Curriculum Revision Committee, ESCI, WWU. 2017.
- Reviewer. ECEEE Summer Study. 2017.
- Reviewer. ACEEE Summer Study. 2016.
- Admissions Committee. Energy and Resources Group.

RELEVANT EXPERIENCE

Assistant Professor
Western Washington University September 2017 – Present
Bellingham, WA

Sustainable Energy Fellow
Natural Resources Defense Council June 2016 – February 2017
San Francisco, CA

Fellow
Robert Bosch Foundation August 2013 – May 2014
Berlin, Germany

Research Assistant
Lawrence Berkeley National Laboratory October 2009 – June 2010, January 2011 – May 2011
Demand Response Research Center, Building Technologies Berkeley, CA

Post-Graduate Strategy and Marketing Intern
Johnson Controls June 2009 – August 2009
Global Energy and Sustainability—Building Efficiency Milwaukee, WI

Consultant
Analyst
Research Fellow
Intern
Rocky Mountain Institute February 2008 – August 2008
May 2007 – February 2008
April 2006 – May 2007
September 2005 – April 2006
Office of the Chairman and Chief Scientist Snowmass, CO
