## Archana M. Ghodeswar

Post doctoral Research Associate MEERA Group, ORNL, TN.

	WILLIAM	Group, Grave, III.	
ORNL staf	-	kedIn profile	University profile Ph.no. (678)768-2402
EDUCATION		gress. Supervisor: Mahabir Bhand	• • •
	•	blic Policy Advisor: Matthew Oliv	
	· ·	nmental, Fiscal, and Demand-Side	Policies in Electricity
	Masters (Economics) Georgia Institute of Technolog	y, Atlanta, GA	2019
	Masters in Power Systems Government College of Engine	eering, Aurangabad(MR), India	2011
	Bachelor Electrical, Electronic Government College of Engine	s and Power Engineering eering, Aurangabad(MR), India	1998
RESEARCH AREAS	Energy and Environmental Eco Sustainable Energy Systems, E	onomics, Power systems, Environmental Justice, Public polic	ey
PROFESSIONAL EXPERIENCE	A) Executive Engineer/Opera Planned and executed a critical	Distribution Company Limited, Incations & Maintenance (Division 1 33KV ring main system for all 33 to initiate measures reducing distribution.	<b>Head)</b> 2009-16
	Designed and implemented i arrears by 10% from Rs. 32.3 r	nnovative initiatives to reduce million to Rs. 29.4 million.	revenue
	<b>~.</b>	y audit for a 0.5 MW plasma powers as a sures in the detail energy audit energy loss.	*
	prosumers. Maharashtra was tl	ring and billing of consumers turne first state in India to implement ortant role in the initial stage in 20	t such a
	Analyzed operational needs	smission & Distribution utility) and developed strategic solution for the HVDC terminal while main	

Responsible for operation and maintained 500 miles of optical fibers communication network, and the advance tools and equipment for

efficient transmission of data signals.

PUBLISHED PAPERS	Trading one waste for another? unintended consequences of fly ash reuse policy in the Indian electric power sector: job market paper published Energy Policy: joint with Matthew Oliver. (website link to published paper)	
WORKING PAPERS	' '' '' '' '' '' '' '' '' '' '' '' '' '	
	Assessing the Efficacy of Environmental Justice Tools in the Clean Energy Transition: A Case Study of the Social and Economic Impacts of Abandoned Coal Mines: joint with <a href="Corsair Hope">Corsair Hope</a>	2023
	Barriers and opportunities for Industrial Energy Efficiency and Decarbonization in the US: A Systematic Review: joint with <u>Abbas Ahmad</u> , <u>Subodh Choudhary</u> , <u>Thomas Wenning</u> .	2023
	Do Coal Plant Closures Serve Environmental Justice to Black Communities? Health Outcomes from a Natural Experiment : joint with <u>Marilyn Brown</u> (Draft ready for publication)	
	The relationship between utility policies and investments in residential distributed renewable energy: joint with <a href="Evgeniya Tsybina">Evgeniya Tsybina</a> , ORNL.	
	Which Financial Factors Improve the Performance of Electricity Distribution Utilities? Evidence from India: joint with <u>Usha Nair-Reichert</u> and Matthew Oliver (Included as thesis's 2nd chapter- ready to send for publication	2020
	Energy economics of internet of things (IoT): Analysis of survey data from Ireland ( <i>Included as thesis's 3<sup>rd</sup> chapter</i> )	2021
WORK IN PROGRESS	Impact of societal factors on under five years child mortality collaborated with <a href="Dr.Smita Pakhale">Dr.Smita Pakhale</a> , and <a href="Preshit Ambade">Preshit Ambade</a> , Ottawa Hospital Research Institute-(ready to send for publication)	2019
	From global to local- defeating energy poverty- The Atlanta beltline case-expansion stage (website link to paper)	2019
	Consumer dynamics and responsiveness to the adoption of new technology in the State electricity sector: joint with Usha Nair-Reichert, and Anjali Thomas <i>Survey stage</i>	
RESEARCH	Research Assistant	2019
EXPERIENCE	Contributing to a project with <u>Marilyn Brown</u> to perform the causal analysis of the high energy burden of black households in Georgia, US and policy recommendations; funded by Sierra Club. I am looking at impact of pollution	
	from coal power plants on health of across races in Georgia.	2022
	Patents and copyrights with Usha Nair-Reichert	2017
	Consumer behavior, efficiency and sustainability in India's power sector, Strategic Energy Institute with Usha Nair-Reichert, and Anjali Thomas	2018
	Use of fly-ash in the construction of solar power plant, and for manufacturing electrically insulated paints": Common Facility Center, India	2014

	Economics of Utilization of Fly Ash in the Construction of Solar Power Plants: Laboratory research results that I presented in the international seminar on emerging building and construction technologies in March 2016 at New Delhi. The conference was arranged by the Ministry of Housing and Urban Poverty Alleviation, Government of India. (website link to paper)	2016
SKILL SETS	Techno-economic analysis, Policy analysis, Cost benefit analysis, Econometric analysis, Analytical skills	
COMPUTER SKILLS	Statistical software – <b>Stata</b> (proficient), <b>R</b> (moderate), <b>Python</b> (beginner) Data visualization and Analytical Tool - <b>Tableau</b> Remote sensing and <b>GIS</b> (latest work) using R	
PAPER PRESENTED	31 <sup>st</sup> Ivan Allen College CRIDC Conference, Atlanta, GA 88 <sup>th</sup> International Atlantic Economic Conference, Miami, FL 32 <sup>nd</sup> Ivan Allen College CRIDC Conference, Atlanta, GA	2020 2019 2021
HONORS AND AWARDS	Essay competition runner-up in the Ivan Allen College CRIDC Conference in Atlanta- Second award, \$1000.	2021
	Winner of " <u>Energy Case Competition</u> – 2020 Southeastern Energy Conference" - "Case presentation on strategies to alleviate energy poverty along Atlanta beltline"	2020
	Passed LEED Green Associate Exam (Leadership in Energy and Environmental Design) conducted by USGCB	2019
	3MT <u>Thesis Competition</u> " finalist- "Industrial Ecology: Alert today, Alive tomorrow"	2019
	Chhatrapati Shahu Maharaj Overseas Scholarship", Government in India- \$173,250. (spread in four years)	2016
	Best Government Officer Award", Chandrapur District Journalist Association	2015
	<u>India Power Award-2014</u> , National Council of Power Utilities, India for <u>Best woman's contribution to power sector</u>	2014
PROFESSIONAL TRAINING	Feeder Energy Management System Training, India Environment Awareness & Management Training, India Demand Side Management Training, India Solar Power Generation Avenues in India- Technical & Financial Feasibility Training, New Delhi Revenue Management & Loss Reduction Training, India Network Information Management System Training, India	9-2016

ONLINE COURSES	FME Desktop: Data Translation for AEC	
	by Gordon Luckett on LinkedIn Learning	2022
	Tableau Essential Training	
	by Curt Frye on LinkedIn Learning	2022
	Critical Thinking and Problem Solving	
	by Eric Zackrison and Madecraft on LinkedIn Learning	2022
	QGIS & Google Earth Engine for Environmental Applications	2021
	Google Earth Engine for Machine Learning & Change Detection using R	
	by Kate Alison on Udemy	
	Energy Within Environmental Constraints	
	by David Keith, HarvardX- ENGSCI137x – EdX	2020
	Tableau 20 A-Z and Advance for data science-	2018
	by Kirill Eremenko on Udemy	