

Marine Energy Collegiate Competition

U.S. DEPARTMENT OF ENERGY

RUTGERS UNIVERSITY DOE MECC TEAM

Paul Alves, Christopher Cafiero, Krista Chempiel, Kaetana Degiovanni, Rylie Gantz, Katherine Moreira, Parie Patel, and Zachary Soricelli

New Jersey Academic Alliance for Offshore Wind Energy Symposium January 12, 2024



THE TEAM



KATHERINE MOREIRA Team Captain Electrical Engineering '24



RYLIE GANTZ Business & Marketing Lead Mechanical Engineering '25



KRISTA CHEMPIEL Secretary Civil Engineering '24



PAUL ALVES Team Member Animal Science '24



KAETANA DEGIOVANNI **Engineering Lead** Mechanical Engineering '24



PARIE PATEL Team Member

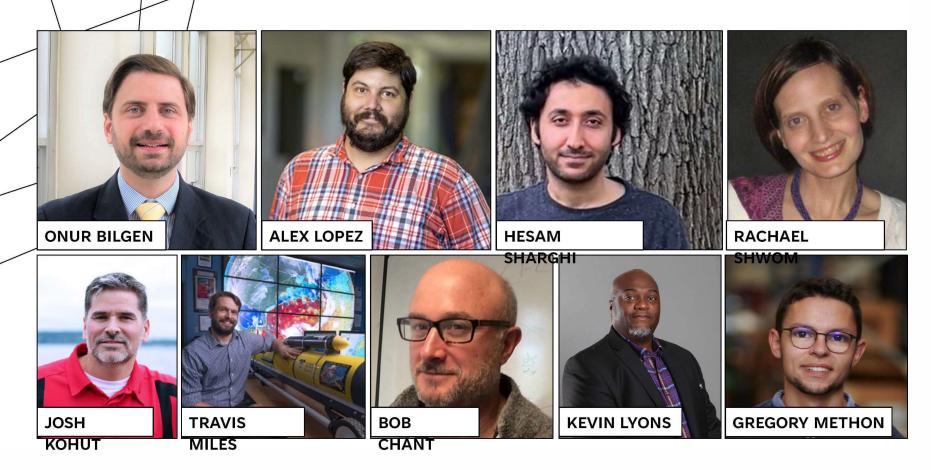


ZACHARY SORICELLI Marine Science Lead Mechanical Engineering '25



CHRISTOPHER CAFIERO Team Member Environmental Engineering '27 Mechanical Engineering '25

THE ADVISORS



COMPETITION OVERVIEW

Technical Design Challenge

 Develop a design of marineenergy powered device

Build & Test Challenge

 Scale a prototype of concept and perform various laboratory tests

Business Plan Challenge

 Identify a blue economy market and cater a device to align with market goals

Community Connections Challenge

 Create connections among the marine energy industry, students, and local communities

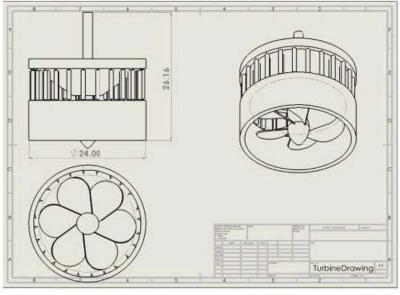
Final Competition

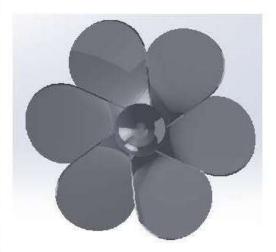




TURBINE DESIGN





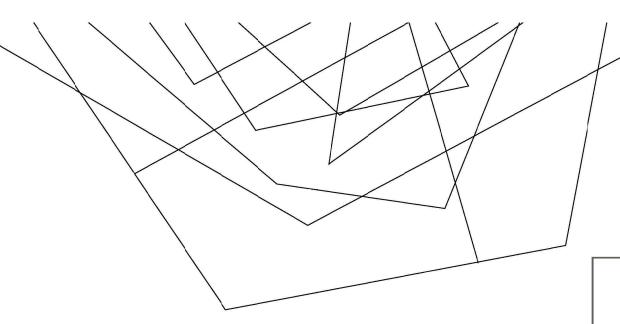


IN THE LAB











THANK YOU

Contact Us: rupower@soe.rutgers.edu



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SPECIAL THANK YOU TO:







