

Kendra Ryan, PhD

KEY QUALIFICATIONS

- 22 years of work experience in over 15 countries
- Management of complex projects and programs
- Applied environmental engineering to marine issues, renewable energy and water resources
- Proven leader of international teams
- Fluent in English; basic Spanish, Italian, and German
- Skilled in research, analyses, writing, presentations, and communications

EXPERIENCE

- 2020-Present Sustainable Water & Energy LLC, Estes Park, Colorado
Co-Owner and Principal Consultant, Environmental Engineering and Policy
- Researches, evaluates, and communicates complex sustainability issues and trends
 - Conducts impact and sustainability assessments at the strategic and project levels
 - Coordinates and consults with stakeholders on sustainable water and energy development
 - Manages projects including schedules, budgets, personnel, and milestones
- 1999-2020 U.S. Navy
Commander, Active and Reserve
- Led 5-100 member teams in the accomplishment of tactical and strategic goals
 - Managed projects for Office of Naval Research and Maritime Partnership Programs including: coordination of interagency operations centers, assessments of international technologies, evaluation of autonomous vessels, overhaul and testing of shipboard systems, administration of exercises, and training of personnel including foreign navies
 - Qualified Nuclear Engineer, Surface Officer of the Deck
 - Service in Germany, Italy, East Africa, Persian Gulf, Western Pacific
- 2007-2010 NATO Undersea Research Centre, La Spezia, Italy
Marine Mammal Risk Mitigation Deputy Project Lead
- Developed and conducted scientific research program on the impacts of sonar on cetaceans; €1 million annual budget; 5 team members
 - Organized and conducted sea trials involving 50 international collaborators from industry, academia, non-government organizations, and government
 - Liaised with NATO Reaction Force planners to implement low-impact exercise plans
- 2006 U.S. Army Corps of Engineers, Seattle, Washington
Biologist
- Interpreted and applied U.S. federal laws and regulations (NEPA, ESA, MMPA, CZMA, CWA)
 - Researched and authored Environmental Assessments and Biological Evaluations
 - Planned, implemented, and monitored environmental restoration and emergency response projects

EDUCATION

- 2013-2018 PhD, Marine Sciences, University of Massachusetts Amherst
- National Science Foundation Traineeship, Offshore Wind Energy Fellow
 - Dissertation: Overcoming Biological Data Deficiencies in Environmental Permitting of Offshore Wind Energy
- 2004-2006 Master of Marine Affairs, University of Washington, Seattle
- Thesis: Cetaceans and Sonar: The Evolution and Evaluation of U.S. Navy Policy
 - Environmental Management Certificate: Tacoma Narrows Tidal Energy Assessment
- 1995-1999 BS, Chemical Engineering and BA, Environmental Engineering, Rice University, Houston, TX

ADDITIONAL EDUCATION AND CERTIFICATIONS

- 2021-2022 Geographic Information Systems Specialization, UC Davis
- 2021-2022 Veterans Advanced Energy Fellowship, Atlantic Council
- 2021 G-Res Tool Certified User, International Hydropower Association (IHA)
- 2001-2002 Naval Nuclear Power School, Charleston, SC and Ballston Spa, NY

PUBLICATIONS and CONFERENCES

- International Hydropower Association. Good Practice Guide: Hydropower and Protected Areas. London: IHA. 2021.
- Ryan, K.L., A. Bates, M. Gopnik, A. Danylchuk, A. Jordaan. "Stakeholder Perspectives on the Value of Marine Spatial Planning for Advancing Offshore Wind". *Coastal Management*, 47:3, pp.269-291. 2019.
- Ryan, K.L., A. Danylchuk, A. Jordaan. "Consideration of scales in offshore wind environmental impact assessments." *Environmental Impact Assessment Review*, 75, pp.59-66. 2019.
- Ryan, K.L., A. Danylchuk, A. Jordaan. "Is Marine Spatial Planning Enough to Overcome Biological Data Deficiencies?" *Journal of Environmental Assessment Policy and Management* 20(4): 1850012-1 - 21. 2018.
- Ryan, K. and A. Jordaan. "The Potential of Marine Spatial Planning as a Basis for Impact Assessments." (Poster). Broomfield, CO: American Wind Wildlife Institute's Wind Wildlife Research Meeting XI. 2016.
- Ryan, K. "Long term, big picture: Does scale matter?" (Poster). Halifax, Canada: International Conference on Ocean Energy. 2014.
- Ryan, K., A. Jordaan, J. Hartmann. "Hydropower and Fish Passage: Results from a New Assessment Tool." (Presentation). Quebec, Canada: American Fisheries Society. 2014.
- Ryan, K. and S. Jespers. "NATO Marine Mammal Risk Mitigation Principles and Guidelines." (Paper and presentation). Cork, Ireland: The Effects of Noise on Aquatic Life. 2010.
- Haun, J., K. Ryan, and A. B-Nagy. "Marine Mammal Surveys During the Sirena10 Sea Trial." (Poster). Cork, Ireland: The Effects of Noise on Aquatic Life. 2010.
- Hughes, D., J. Sildam, A. B-Nagy, K. Ryan, and J. Haun. "Passive Acoustic Monitoring during the Sirena 10 Cetacean Survey." (Paper). Seattle, Washington, USA: OCEANS 10. 2010.
- Ryan, K. "NATO Undersea Research Centre Marine Mammal Risk Mitigation Rules and Procedures." Special Publication NURC-SP-2009-002. 2009.
- (Convener) 2nd Intergovernmental Conference: The Effects of Sound in the Ocean on Marine Mammals. Lerici, Italy. 2009.
- Haun, J., K. Ryan, and N. Portunato. "SIRENA '08: A Marine Mammal Risk Mitigation Sea Trial." (Paper). Hyères, France. 2008.
- Stewart, M.S., M. Delgado, K. Ryan, and B. Ash, "Persistent Littoral Undersea Surveillance-Networked (PLUSNet) – Sea Trial Perspectives." *Journal of Underwater Acoustics*, 55:2, pp 277-304. 2008.
- Ryan, K. "The Interaction of Marine Mammals and Active Sonar." *Oceanography*, 21:2. 2008.
- (Convener) 3rd Intergovernmental Conference: The Effects of Sound in the Ocean on Marine Mammals. Lerici, Italy. 2007.