



**NATIONAL
OFFSHORE WIND**
RESEARCH & DEVELOPMENT CONSORTIUM

Innovations in Offshore Wind 2.0: Round 2 Topic Preview

January 25, 2022

Agenda

- Intro to NOWRDC
- Solicitation 2.0 Round 1 Recap
- Solicitation 2.0 Round 2 Topic Area Preview
- Tips for Successful Proposals

National Offshore Wind Research and Development Consortium

Goal: Facilitate a nationally-focused, not-for-profit organization collaborating with industry on prioritized R&D activities to reduce levelized cost of energy (LCOE) of offshore wind in the U.S. and maximizing other economic and social benefits.

Desired Impacts:

- Fund the development of innovations directly responsive to the technical and supply chain barriers faced by offshore wind project developers in the U.S.
- Build strong networks connecting technology innovators, investors, and industry
- Increase U.S. content and job opportunities

Current NOWRDC Funding: \$41M (\$20.5 DOE funds, matched by NYSERDA) - plus state (MA, ME, NJ, VA, MD) and member contributions totalling over \$7M; 85% of the funds go to R&D projects

NOWRDC has awarded over \$35M in R&D funds to date

National Offshore Wind Research and Development Consortium

Projects fall under 3 categories:

Category A:

Technical Feasibility Studies

Category B:

New Product, Systems, Service, or Strategy Development

Category C:

Demonstration of Technologies, Systems or Services

NOWRDC Innovations in Offshore Wind Solicitation 2.0 - Round 1

Round 1 culminated in January 2022 with awards issued to 6 projects:

Awardee	Project Title	Technical Focus Area
GE Renewable Energy	Weld Assembly of Large Castings	Supply & Logistics
National Renewable Energy Laboratory (NREL)	Standardized Scalable Mooring Solutions Optimized for the U.S. Supply Chain	Supply & Logistics
Electric Power Research Institute (EPRI)	Verifying OSW Turbine Blade Integrity During Manufacture	Supply & Logistics
GE Research	Autonomous Vessel-Based Multi-Sensing System for Inspection and Monitoring	O&M & Safety
UMass Lowell	A Novel Structural Health Monitoring System for Offshore Wind Turbine	O&M & Safety
Dive Technologies	Fully Autonomous Subsea Asset Inspection by a Shore-Launched AUV	O&M & Safety

NOWRDC Innovations in Offshore Wind Solicitation 2.0 - Round 2

- Round 2 has approximately \$3.5M in available funding
- The Round 2 technical challenge areas are:
 1. Facilitating Ocean Area Co-Existence
 2. Electrical and Grid Challenges Unique to Offshore Wind Transmission

NOWRDC Innovations in Offshore Wind Solicitation 2.0 - Round 2

Timeline:

Full Solicitation Release: February 2022

Concept Papers Due: March 9, 2022

Full Submission Invitations Issued: March/April 2022

Full Submissions Due: April 28, 2022

Award Notifications: June 2022

NOWRDC Innovations in Offshore Wind Solicitation 2.0 - Round 2

Phase 1: Concept Paper Submission

- Applicants must initially submit a 4-page concept paper using the template provided in the forthcoming Solicitation release. This template contains questions under the following categories:
 - Project impact, innovation, state of the art, risks and challenges, project plan, and project team
- **Concept papers are due March 9, 2022 at 3:00 PM EST**
- Following a standardized scoring process based on criteria outlined in the forthcoming Solicitation Program Notice, NOWRDC may invite an applicant to submit a “Full Proposal”

NOWRDC Innovations in Offshore Wind Solicitation 2.0 - Round 2

Phase 2: Full Proposal Submission

- To be submitted only by NOWRDC's invitation, the "Full Proposal" consists of, among other requirements that will be stated in the forthcoming Solicitation:
 - A detailed proposal narrative, scope of work, TRL/CRL calculation, milestone payment schedule, and a detailed budget justification
- **Full proposal submissions are due April 28, 2022 at 3:00 PM EST**

NOWRDC Innovations in Offshore Wind Solicitation 2.0 - Round 2

- Upon release, links to our detailed solicitation page will be publicly available (landing page is NYSERDA website).
 - *NOWRDC will publish information on our website, nationaloffshorewind.org, including FAQs and responses*
 - *NOWRDC will share information via our social media accounts, including LinkedIn and Twitter*
 - *Subscribers to NOWRDC announcements will receive an automated notification by email announcing the opportunity*
- For the most up-to-date information, subscribe to our mailing list at [website](#) (scroll all the way down to “enroll today”)

NOWRDC Tips for Successful Proposals

- NOWRDC plans on hosting a webinar in February during the open solicitation period to give additional guidance on how to draft successful proposals. The timing of this will be announced along with the Round 2 release.
- In the meantime, we want to share some common attributes of successful proposals. These are not requirements for award, but rather suggestions for applicants to become better familiar with what reviewers are looking for.

NOWRDC Tips for Successful Proposals – these are suggestions and do not guarantee success

General tips:

1. When the Solicitation is published, review the scoring criteria.
2. *Engage* industry and document industry engagement in your proposal, to the extent possible. Avenues to become better acquainted with industry are:
 - NOWRDC's periodic MSSC supply chain pitch session;
 - BNOW supply chain registry and various state supply chain registries; and
 - Industry conferences, such as [IPF](#)
3. Ensure the proposal is well written, communicates the key details about the project clearly, and is free of grammatical and formatting errors.
4. Include letters of support when possible.

NOWRDC Tips for Successful Proposals

General tips continued:

5. When applicable, use citations for commercial or scientific claims.
6. Ensure the project team contains expertise that covers all aspects of the project. If the lead proposer does not contain the full expertise required for the project in-house, consider consulting external experts and adding them to the proposal as subcontractors.
7. Graphics and photos can be helpful.
8. When stating potential benefits of the proposed project or technology, clearly connect the innovation to the industry need.

NOWRDC Tips for Successful Proposals

Tips for specific sections:

9. When given the opportunity to address technical risk in the project or technology, add as much detail as possible and include mitigation plans. Reviewers are often familiar with general risks in a given technology area and will see reductive risk descriptions as a weakness.
10. When given the opportunity to describe the project plan, add detail that demonstrates how the TRL and CRL of the project's technology advances.
11. When given the opportunity to describe a potential reduction in LCOE (levelized cost of energy) as a result of the technology of focus in the project, explain the rationale behind the calculation with detail.

Questions?

- To submit questions via email, please email info@nationaloffshorewind.org
- FAQ s and their responses will be published on our website, nationaloffshorewind.org



**NATIONAL
OFFSHORE WIND**
RESEARCH & DEVELOPMENT CONSORTIUM