



**U.S. Offshore Wind Research and  
Development Consortium FOA**  
[OSWConsortiumFOA@ee.doe.gov](mailto:OSWConsortiumFOA@ee.doe.gov)

**FOA Webinar  
DE-FOA-0001767  
12-20-17**

**[U.S. Offshore Wind Research and Development Consortium FOA]****Anticipated Schedule:**

<b>FOA Issue Date:</b>	<b>12/12/2017</b>
<b>FOA Informational Webinar:</b>	<b>12/20/2017</b>
<b>Submission Deadline for Concept Papers:</b>	<b>1/23/2018</b>
<b>Submission Deadline for Full Applications:</b>	<b>3/26/2018</b>
<b>Submission Deadline for Replies to Reviewer Comments:</b>	<b>4/30/2018</b>
<b>Expected Date for EERE Selection Notifications:</b>	<b>June 2018</b>
<b>Expected Timeframe for Award Negotiations:</b>	<b>June 2018 – Sept 2018</b>

# Notice

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- All applicants are strongly encouraged to carefully read the Funding Opportunity Announcement [DE-FOA-0001767](#) (“FOA”) and adhere to the stated submission requirements.
- This presentation summarizes the contents of FOA. If there are any inconsistencies between the FOA and this presentation or statements from DOE personnel, the FOA is the controlling document and applicants should rely on the FOA language and seek clarification from EERE.
- If you believe there is an inconsistency, please contact [OSWConsortiumFOA@ee.doe.gov](mailto:OSWConsortiumFOA@ee.doe.gov).

# Notice

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- NO NEW INFORMATION OTHER THAN THAT PROVIDED IN THE FOA WILL BE DISCUSSED IN THE WEBINAR.
- There are no particular advantages or disadvantages to the application evaluation process with respect to participating on the webinar today.
- Your participation is completely voluntary.

# Agenda

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- 1) FOA Description
- 2) Topic Area/Technical Areas of Interest
- 3) Award Information
- 4) Statement of Substantial Involvement
- 5) Cost Sharing
- 6) Pre-Selection Interviews
- 7) Concept Papers
- 8) Full Applications
- 9) Merit Review and Selection Process
- 10) Registration Requirements



# FOA Description

- The U.S. offshore wind industry has unique technological challenges that have yet to be overcome in the global offshore wind market.
- To aggressively address costs and other development risks, EERE seeks to facilitate the establishment of an offshore wind research and development consortium that will foster collaboration across organizations and disciplines in addressing mutually beneficial cross-cutting and potentially high-risk research and development.
  - A competitive award of \$18.5M will be made under this Wind Energy Technologies Office (WETO) FOA.
  - An additional \$2.0M will be allocated directly from DOE to DOE/NNSA Federally Funded Research (FFRDC) and Development Centers to carry out R&D activities, either in direct partnership with the applicant, or prioritized by the consortium.

# FOA Description (continued)

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- The goal of this consortium is to accelerate the U.S. offshore wind industry through research initiatives engaging industry, academia, and national laboratories in conducting fundamental R&D and technology demonstration targeting U.S.-specific offshore wind technology barriers.
- EERE aims to reduce the levelized cost of offshore wind energy in the U.S., enabling it to compete with local electricity market rates, through technological advancement.

## FOA Description (continued)

In alignment with the findings of the *2016 National Offshore Wind Strategy*, which was based on extensive offshore wind industry outreach and engagement, this consortium would focus on reducing costs and technology risks through three specific “pillars” of research and demonstration:

- Offshore Wind Plant Technology Advancement;
- Offshore Wind Power Resource and Physical Site Characterization; and
- Installation, Operations and Maintenance, and Supply Chain Technology Solutions.

Specific R&D projects within these topic areas will be recommended and prioritized by consortium members.



# Topic Area/Technical Areas of Interest (continued)

To realize the goal of the offshore wind consortium, the administrator would ensure that the following objectives are met:

- Lead a national effort to administer the research, development, testing, and verification and validation of offshore wind technologies in order to address U.S. specific offshore wind challenges in line with the *2016 National Offshore Wind Strategy*;
- Provide the strong technical leadership necessary to establish a robust business model, and be able to attract members to participate in the consortium in order to match or exceed the Federal funding provided;
- Establish and execute a collaborative R&D approach that enables prioritization of research needs through the membership to address technical challenges that will have the highest impact in reducing the cost and risk of offshore wind development in the U.S.

# Topic Area/Technical Areas of Interest (continued)

- Create a world-class innovation hub that brings together a robust member group of private and public entities to co-invest in the research, development, and demonstration of innovative offshore wind technologies. It is expected that the applicant will identify the initial consortium membership through letters of commitment and allow for the flexibility of new members joining that are not named in the FOA application;
- Establish a clear structure and methodology for defining and implementing R&D initiatives that encourage participation by a wide range of stakeholders, i.e. academia, national labs, private researchers and consultants, non-governmental organizations, etc. It is expected that the consortium administrator would implement the majority of the research agenda, defined by the consortium members and EERE, through competitive solicitations;
- Maximize Federal funds through industry matching, and provide sufficient financial and contractual mechanisms for collaboration across a wide variety of stakeholders to allow for the greatest industry benefit from the consortium's R&D activities;

# Topic Area/Technical Areas of Interest (continued)

- Leverage relevant existing private and public sector resources and facilities such as industry laboratories, university centers, test facilities, national laboratories, and other government investments in executing the consortium R&D activities; EERE expects that consortium will not fund construction or expansion of R&D facilities.
- Develop key intellectual property to foster offshore wind industry technology advancement and provide licensing rights opportunities to consortium members;
- Enable rapid technology transfer to the offshore wind industry by disseminating R&D results to facilitate commercial application of innovations;

# Topic Area/Technical Areas of Interest (continued)

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- Maximize the total R&D executed under the award by maintaining less than 10% of EERE-awarded funds for administration of the consortium;
- Establish the consortium structure and membership, and begin operations in an expeditious timeframe that allows prioritized research to begin within the first six months of the EERE award; and
- Ensure that EERE is included as a full participating member in the consortium.

# FOA Description

- Partnering with DOE/NNSA FFRDCs: Applicants may partner with FFRDCs upfront as direct consortium R&D team members, and/or as the result of competitive solicitations later on as part of consortium-directed R&D initiatives. In addition to the funds available to the FOA awardee, EERE anticipates directly funding FFRDCs for \$2M of work supporting the consortium. If a consortium decision is made to provide additional funding to FFRDCs above the \$2M provided directly by EERE, it will result in a corresponding reduction in the EERE funds obligated to the consortium administrator under the award. The FFRDC effort, in aggregate, should not exceed 25% of the total estimated cost of the project.

Consortium R&D: Applicants may propose R&D that will be conducted by the applicant team directly under the award resulting from this FOA , provided that the applicant demonstrates in its application that it is highly qualified to carry out the proposed work. However, EERE expects that the majority of the R&D will be awarded competitively to for-profit and not-for-profit entities, universities, and/or FFRDCs based on consortium membership interests and priorities.

# Topic Area/Technical Areas of Interest (continued)

## **Pillar #1: Offshore Wind Plant Technology Advancement**

Technology advancements targeted at the major cost drivers of offshore wind energy levelized cost of energy, LCOE, will drive significant cost reductions in the U.S. and the global offshore wind market. Technology advancement has the potential to enhance design safety and reduce costs of offshore wind energy in a variety of ways. Accelerated innovation can reduce capital costs and expand annual energy production, thus resulting in LCOE reductions for fixed bottom and floating offshore wind systems by 40% and 60%, respectively. Technology advancements that will benefit the domestic market must address unique U.S. offshore conditions, including deep water and extreme conditions (e.g. hurricanes). The following is a non-exhaustive list of topic examples that the consortium may consider within this research pillar:



# Topic Area/Technical Areas of Interest (continued)

- Reducing floating technology capital expenditures (CAPEX) through:
  - Performing research to understand which aspects of innovative floating foundation concepts provide the most benefit in reducing CAPEX (foundation archetype, foundation materials, reduced turbine motions, mooring systems, transparency to waves, etc.);
  - Enabling technology refinement for upscaling and optimizing floating wind foundations to support 10MW+ turbines; and
  - Developing/improving/validating design and analysis tools to facilitate advancements in floating technology.
- Improving turbine and wind plant Annual Energy Production (AEP), e.g. performing research on the wind plant array interaction of floating turbines and potential wake steering methodologies to optimize floating wind plant AEP;
- Performing research activities to support the development of structural design standards, e.g. design for hurricane conditions, in order to reduce project capital costs and technology risks.

# Topic Area/Technical Areas of Interest (continued)

## **Pillar #2: Offshore Wind Power Resource and Physical Site Characterization**

Improvements in offshore wind site characterization and technology advancement can drive significant cost and risk reduction in offshore wind technology by increasing AEP, and by reducing wind farm development timelines, capital costs, operations and maintenance, O&M, costs, and project financing costs. Below is a non-exhaustive list of topic examples that the consortium may consider within this research pillar:

- Validation of innovative and inexpensive site characterization methodologies;
- Validation of models used for site characterization in order to minimize on-site data collection;
- Improvement of weather forecasting at offshore wind sites through greater understanding of the air-sea interaction; and
- Improvement of the understanding of extreme metocean conditions in the U.S., e.g. hurricanes, to achieve more robust engineering designs and better predict potential failure modes.

# Topic Area/Technical Areas of Interest (continued)

## **Pillar #3: Installation, Operations and Maintenance, and Supply Chain Technology Solutions**

The modeled installation, operation and maintenance costs for an offshore wind plant in the U.S. in 2015 ranges from \$100/kW/year to \$150/kW/year, which is approximately 30% of the LCOE for a fixed bottom offshore wind plant. These costs must be reduced in order for offshore wind to compete with local electricity market hurdle rates. Below is a non-exhaustive list of topic examples that the consortium may consider within this research pillar:

- Reduction in on-site O&M through improved integrated system reliability, remote sensing, remote inspections, etc.;
- Reduction in installation costs resulting from innovative technology, e.g. self-installing turbine systems, or float-and-flip floating turbine/foundation solutions; and
- Supply chain and infrastructure studies that help U.S. industry to compete within a global offshore wind market.

# Topic Area/Technical Areas of Interest (continued)

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As the subtopics listed under each pillar are not exhaustive, applicants are encouraged to propose representative topics within these different research pillars that are not listed.

It is expected that the consortium will be able to begin conducting prioritized research within six months of the EERE award. FOA applications should provide a well-crafted plan for execution, and the type of research that could potentially be scoped and solicited within this expedited timeframe.

All work under EERE funding agreements must be performed in the United States. See Section IV.J.3 and Appendix C.

# Non-Responsive Applications

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The following types of applications will be deemed nonresponsive and will not be reviewed or considered for an award:

- Applications that fall outside the technical parameters specified in Section I.B of the FOA, including but not limited to:
- Applications for proposed technologies that are not based on sound scientific principles (e.g., violates the law of thermodynamics).

# Award Information

<b>Total Amount to be Awarded</b>	<b>\$18.5 M*</b>
<b>Average Award Amount</b>	EERE expects to make approximately \$18.5M of Federal funding available for a single new award under this FOA, subject to the availability of appropriated funds. In addition to this competitive award, an additional \$2.0M will be allocated directly from DOE to DOE/NNSA Federally Funded Research and Development Centers (FFRDC).
<b>Types of Funding Agreements</b>	Cooperative Agreement
<b>Period of Performance</b>	<b>48</b> months
<b>Cost Share Requirement</b>	<b>50%</b> of Total Project Costs

\*Subject to the availability of appropriated funds



# Statement of Substantial Involvement

EERE has substantial involvement in work performed under Awards made as a result of this FOA. EERE does not limit its involvement to the administrative requirements of the Award. Instead, EERE has substantial involvement in the direction and redirection of the technical aspects of the project as a whole. Substantial involvement includes, but is not limited to, the following:

- EERE shares responsibility with the recipient for the management, control, direction, and performance of the Project.
- EERE may intervene in the conduct or performance of work under this Award for programmatic reasons. Intervention includes the interruption or modification of the conduct or performance of project activities.
- EERE may redirect or discontinue funding the Project based on the outcome of EERE's evaluation of the Project at the Go/No Go decision point(s).
- EERE (and other Federal government participants identified by DOE) will be included in decision making bodies (boards/committees) at both a strategic and technical level within the consortium;

# Cost Sharing Requirements

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Applicants must contribute a minimum of **50%** of the total project costs.

# Cost Share Contributions

- Contributions must be:
  - Specified in the project budget
  - Verifiable from the Prime Recipient's records
  - Necessary and reasonable for proper and efficient accomplishment of the project
- Every cost share contribution must be reviewed and approved in advance by the Contracting Officer and incorporated into the project budget before the expenditures are incurred
- Given the nature of a consortium in which not all members and R&D partners are known at the time of the application, budgetary holds on the release of EERE funding will be identified and then released as partners/subrecipients and associated cost sharing commitments can be established. However, the application should include upfront cost sharing commitments to the extent possible.

# Allowable Cost Share

- Cost Share must be allowable and must be verifiable upon submission of the Full Application
- Refer to the following applicable Federal cost principles:

Entity	Cost Principles
For-profit entities	FAR Part 31
All other non-federal entities	2 CFR Part 200 Subpart E - Cost Principles

# Allowable Cost Share

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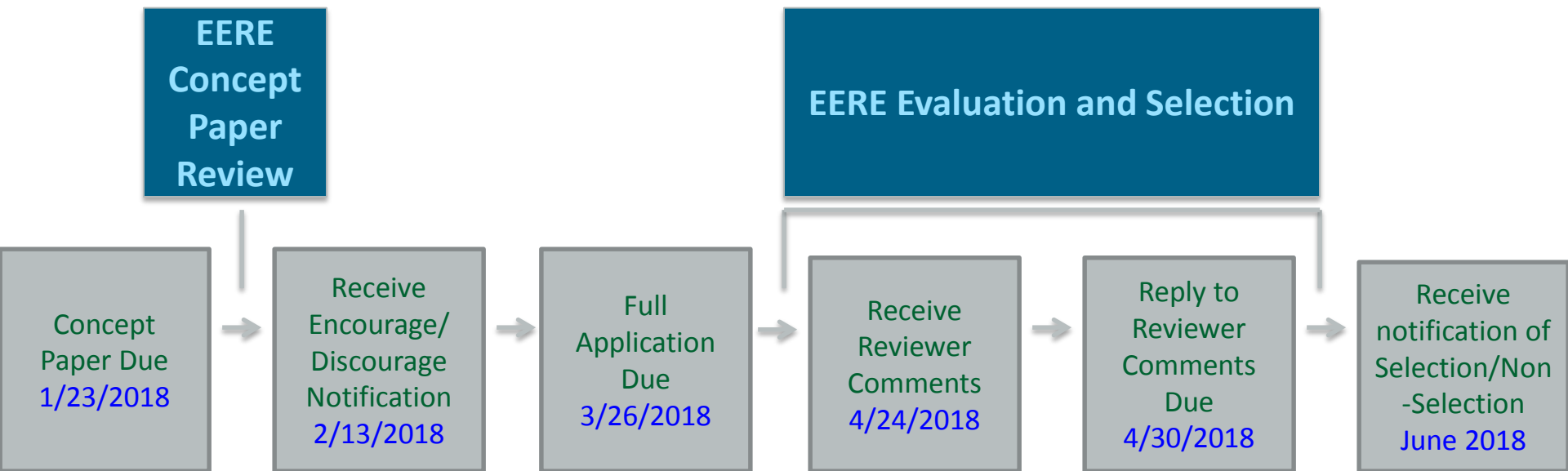
- Cash Contributions
  - May be provided by the Prime Recipient, Subrecipients, or a Third Party
- In-Kind Contributions
  - Can include, but are not limited to: personnel costs, indirect costs, facilities and administrative costs, rental value of buildings or equipment, and the value of a service, other resource, or third party in-kind contribution

# Unallowable Cost Share

- The Prime Recipient may not use the following sources to meet its cost share obligations including, but not limited to:
  - Revenues or royalties from the prospective operation of an activity beyond the project period
  - Proceeds from the prospective sale of an asset of an activity
  - Federal funding or property
  - Expenditures reimbursed under a separate Federal Technology Office
  - Independent research and development (IR&D) funds
  - The same cash or in-kind contributions for more than one project or program



# FOA Timeline



EERE anticipates making awards by 9/30/2018

# Pre-Selection Interviews

- EERE may invite one or more applicants to participate in Pre-Selection Interviews
- All interviews will be conducted in the same format
- Pre-Selection Interviews will be conducted at either DOE HQ in Washington, D.C., or at the Golden Field Office in Golden, CO. Applicants should plan to budget for these expenses outside of the DOE award, as EERE will not reimburse applicants for travel and other expenses relating to the Pre-Selection Interviews, nor will these costs be eligible for reimbursement as pre-award costs.
- Participation in Pre-Selection Interviews with EERE does not signify that applicants have been selected for award negotiations

# Concept Papers

- Applicants must submit a Concept Paper
  - Each Concept Paper must be limited to a single concept or technology
- The Concept Paper must include a technology description (See [Section IV.C](#) of the FOA)
  - The technology description is limited to [8](#) pages
  - The Concept Paper can also include graphs, charts, or other data (limited to [4](#) pages)
- Concept Papers must be submitted by [January 23, 2018](#), through EERE Exchange, and must comply with the content and form requirements in [Section IV.C](#) of the FOA
- EERE provides applicants with: (1) an “encouraged” or “discouraged” notification, and (2) the reviewer comments

## Concept Paper Criteria

- Concept Papers are evaluated based on consideration the following factors.
  - **Criterion 1: Technical Approach Description (40%)**
  - **Criterion 2: Team and Resources (30%)**
  - **Criterion 3: Operations and Management Approach Description (30%)**

# Full Applications

- The Full Application includes:
  - **Technical Volume:** The key technical submission - info relating to the technical content, project team members, etc.
  - **SF-424 Application for Federal Assistance:** The formal application signed by the authorized representative of the applicant.
  - **SF-424A Budget & Budget Justification:** a detailed budget and spend plan for the project.
  - **Summary for Public Release**
  - **Summary Slide**
  - **Administrative Documents:** E.g., U.S. Manufacturing Plan, FFRDC Authorization (if applicable), Disclosure of Lobbying Activities, etc

# Full Applications: Technical Volume Content

- **Technical Volume: the key technical component of the Full Application (30 pages maximum)**

Content of Technical Volume	Suggested % of Technical Volume
Cover Page	
Project Overview	10%
Technical Description, Innovation and Impact	25%
Workplan	50%
Technical Qualifications and Resources	15%



# Full Application Eligibility Requirements

- Applicants must submit a Full Application by March 26th
- Full Applications are eligible for review if:
  - The Applicant is an eligible entity [Section III.A of FOA](#);
  - The applicant submitted a compliant Concept Paper;
  - The Full Application complies with the content and form requirements in Section IV.D of the FOA; and
  - The applicant successfully uploaded all required documents and clicked the “Submit” button in EERE Exchange by the deadline stated in the FOA.
  - The Full Application meets any other eligibility requirements listed in Section III of the FOA.

# Who's Eligible to Apply?

Eligible applicants for this FOA include:

1. Individuals
2. Domestic Entities
3. Foreign Entities
4. Incorporated Consortia
5. Unincorporated Consortia

For more detail about each eligible applicant, please see [Section III.A](#) of the FOA for eligibility requirements

Nonprofit organizations described in Section 501(c)(4) of the Internal Revenue Code of 1986 that engaged in lobbying activities after December 31, 1995, are not eligible to apply for funding.

This FOA has restricted eligibility requirements to the following entities:

- DOE/NNSA and non-DOE/NNSA Federally Funded Research and Development Centers (FFRDCs) are eligible to apply for funding as a Subrecipient only.

# Multiple Applications

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Applicants may only submit one Concept Paper and one Full Application for consideration under this FOA

# Multiple Applications, Continued

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- If an applicant submits more than one Concept Paper or Full Application, EERE will only consider the last timely submission for evaluation
  - Any other submissions received listing the same applicant will be considered non-compliant and not eligible for further consideration
  - This limitation does not prohibit an applicant from collaborating on other applications (e.g., as a potential Subrecipient or partner) so long as the entity is only listed as the Prime Applicant on one Concept Paper and Full Application submitted under this FOA

# Merit Review and Selection Process (Full Applications)

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- The Merit Review process consists of multiple phases that each include an initial eligibility review and a thorough technical review
- Rigorous technical reviews are conducted by reviewers that are experts in the subject matter of the FOA
- Ultimately, the Selection Official considers the recommendations of the reviewers, along with other considerations such as program policy factors, to make the selection decisions

# Full Application Criteria

- **Criterion 1: Consortium Administration Merit and Impact (40%)**
  - Impact
  - Impact of Technology Advancement
- **Criterion 2: Project Plan (40%)**
  - Approach, work plan and Schedule
  - Operations
  - Data Management
  - Publicity and Outreach
- **Criterion 3: Team and Resources (20%)**
  - Consortium Team and Participants
  - Management and governance Approach

# Replies to Reviewer Comments

- EERE provides applicants with reviewer comments
- Applicants are not required to submit a Reply - it is optional
- To be considered by EERE, a Reply must be submitted by [April 30, 2018](#) and submitted through EERE Exchange
- Content and form requirements:

Section	Page Limit	Description
Text	2 pages max	Applicants may respond to one or more reviewer comments or supplement their Full Application.
Optional	1 page max	Applicants may use this page however they wish; text, graphs, charts, or other data to respond to reviewer comments or supplement their Full Application are acceptable.

# Selection Factors

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The Selection Official may consider the merit review recommendation, program policy factors, and the amount of funds available in arriving at selections for this FOA



# Program Policy Factors

The Selection Official may consider the following program policy factors in making his/her selection decisions:

- The degree to which the proposed project exhibits technological diversity when compared to the existing EERE project portfolio and other projects selected from the subject FOA;
- The degree to which the proposed project, including proposed cost share, optimizes the use of available EERE funding to achieve programmatic objectives;
- The level of industry involvement and demonstrated ability to accelerate commercialization and overcome key market barriers;
- The degree to which the proposed project is likely to lead to increased employment and manufacturing in the United States; and
- The degree to which the proposed project will accelerate transformational technological advances in areas that industry by itself is not likely to undertake because of technical and financial uncertainty.

# Registration Requirements

- To apply to this FOA, Applicants must register with and submit application materials through EERE Exchange: <https://eere-Exchange.energy.gov>
- Obtain a “control number” at least 24 hours before the first submission deadline
- Although not required to submit an Application, the following registrations must be complete to received an award under this FOA:

Registration Requirement	Website
DUNS Number	<a href="http://fedgov.dnb.com/webform">http://fedgov.dnb.com/webform</a>
SAM	<a href="https://www.sam.gov">https://www.sam.gov</a>
FedConnect	<a href="https://www.fedconnect.net">https://www.fedconnect.net</a>
Grants.gov	<a href="http://www.grants.gov">http://www.grants.gov</a>

# Means of Submission

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- Concept Papers, Full Applications, and Replies to Reviewer Comments must be submitted through EERE Exchange at <https://eere-Exchange.energy.gov>
  - EERE will not review or consider applications submitted through other means
- The Users' Guide for Applying to the Department of Energy EERE Funding Opportunity Announcements can be found at <https://eere-Exchange.energy.gov/Manuals.aspx>

# Key Submission Points

- Check entries in EERE Exchange
  - Submissions could be deemed ineligible due to an incorrect entry
- EERE strongly encourages Applicants to submit 1-2 days prior to the deadline to allow for full upload of application documents and to avoid any potential technical glitches with EERE Exchange
- Make sure you hit the submit button
  - Any changes made after you hit submit will un-submit your application and you will need to hit the submit button again
- For your records, print out the EERE Exchange Confirmation page at each step, which contains the application's Control Number

# Applicant Points-of-Contact

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- Applicants must designate primary and backup points-of-contact in EERE Exchange with whom EERE will communicate to conduct award negotiations
- It is imperative that the Applicant/Selectee be responsive during award negotiations and meet negotiation deadlines
  - Failure to do so may result in cancellation of further award negotiations and rescission of the Selection

# Questions

- Questions about this FOA? Email [OSWConsortiumFOA@ee.doe.gov](mailto:OSWConsortiumFOA@ee.doe.gov)
  - All Q&As related to this FOA will be posted on EERE Exchange
    - You must select this specific FOA Number in order to view the Q&As
  - EERE will attempt to respond to a question within 3 business days, unless a similar Q&A has already been posted on the website
- Problems logging into EERE Exchange or uploading and submitting application documents with EERE Exchange? Email [EERE-ExchangeSupport@hq.doe.gov](mailto:EERE-ExchangeSupport@hq.doe.gov).
  - Include FOA name and number in subject line
- All questions asked during this presentation will be posted on EERE Exchange

# Concept Paper Review

Concept Papers are evaluated based on consideration the following factors. All sub-criteria are of equal weight.

## **Criterion 1: Technical Approach Description (40%)**

- This criterion involves consideration of the following factors:
- Quality of the proposed offshore wind consortium technical approach for the core R&D focus areas identified in the FOA;
- The extent to which the proposed application is well-defined and has quantitative technical objectives for the proposed offshore wind consortium;
- The extent to which the applicant identifies the initial consortium membership and describes a plan that allows for flexibility for new members to join that were not part of the application;
- The extent to which the applicant has demonstrated a comprehensive understanding of the current state-of-the-art in the field of offshore wind, including key opportunities, shortcomings, limitations, and challenges;
- The extent to which the applicant has demonstrated how the consortium will approach initial R&D project focus, consortium membership, day-to-day operations and management, utilization of shared RD&D facilities, and how stakeholders will be engaged in the process to address the opportunities, shortcomings, limitations, and challenges in developing cost effective offshore wind in the U.S.;
- The estimated impact that the proposed offshore wind consortium would have on expanding cost effective offshore wind in the U.S. by addressing the key technological risks that challenge the U.S. offshore wind industry.

# Concept Paper Review (continued)

## Criterion 2: Team and Resources (30%)

- This criterion involves consideration of the following factors:
- Whether the Principal Investigator (consortium Director/Executive) and Project Team have the skill and expertise needed to successfully execute the project plan;
- Whether the applicant team has prior experience which demonstrates an ability to perform tasks of similar risk and complexity;
- Whether the applicant has the necessary expertise and capabilities to conduct and coordinate consortium R&D efforts to accomplish the project objectives.



# Concept Paper Review (continued)

## Criterion 3: Operations and Management Approach Description (30%)

- This criterion involves consideration of the following factors:
- The quality of the proposed management and operations structure and approach, including the role of the EERE in the management of the proposed consortium; EERE expects to engage as a full participating member in the consortium ;
- The extent to which a strategy for participation of a wide range of stakeholders in the consortium has been described; this will include consortium membership as well as R&D participants;
- The extent to which a plan is described for the rapid establishment of the proposed consortium and its membership. This will allow for prioritized R&D to begin within the first six months of the project.
- The extent to which a plan is described for allocation of intellectual property rights among consortium members that is consistent with applicable laws, regulations, and policies.

# Technical Merit Review Criteria

## Criterion 1: Consortium Administration Merit and Impact (40%)

### Consortium Administration Merit

- Extent to which the application specifically and convincingly demonstrates how the applicant's approach will ensure that the consortium will result in a pathway to achieving the broad FOA goal of addressing offshore wind technology challenges in the U.S. in order to reduce costs and de-risk innovative technology.
- Sufficiency of a) the rationale of how DOE funds will be distributed between the administrative needs (less than 10% of EERE funding) of the consortium and the research activities which will be performed, and b) principles which will be used in determining the research topics and projects leading to the distribution of award funds.
- Assessment of whether the proposed approach is effective, based on sufficient detail in the application, including relevant statistics and discussion of prior experience that supports the viability of the proposed plan and overall approach.
- The extent to which the applicant identifies the initial consortium membership through letters of commitment and allow for flexibility for new members to join that were not part of the application.

# Technical Merit Review Criteria - Continued

## Criterion 1: Consortium Administration Merit and Impact (40%) - continued

### Impact

- The level of impact that the proposed approach will have on lowering the cost of and de-risking innovative offshore wind technologies, and bringing these technologies to market to help foster the market interest for offshore wind in the U.S.
- The extent to which the proposed approach will result in a consortium that proves to be an invaluable instrument for the offshore wind industry to utilize as the U.S. market progresses.

### Impact of Technology Advancement

- How the proposed application addresses the three key pillars of R&D as identified in the DOE National Offshore Wind Strategy;
- The potential impact of the consortium on lowering the LCOE of offshore wind.

# Technical Merit Review Criteria - Continued

## Criterion 2: Project Plan (40%)

### Approach, Work Plan, and Schedule

- Degree to which the approach and Work Breakdown Structure have been clearly described and thoughtfully considered;
- Degree to which the tasks, goals, milestones and deliverables to establish the consortium are clearly described, detailed, reasonable, timely, and can be completed within the allotted time span, resulting in a high likelihood that the implementation of the proposed Work Plan will result in the successful development and implementation of the consortium;
- Degree to which the application describes how the proposed consortium will expeditiously begin conducting prioritized R&D within the first six months of the project.

# Technical Merit Review Criteria - Continued

## Criterion 2: Project Plan (40%) - continued

### Operations

- The adequacy and quality of an annual planning process, including the strategic planning;
- Strength of the technical management plan for selecting and prioritizing R&D work, tracking performance and planned periodic (annual) review processes for consortium and project performance;
- Quality of the stakeholder engagement plan and how it demonstrates openness to new participants and ability to engage stakeholders along the supply chain including end-users;
- Adequacy of the discussion of the economic and operational key risk areas involved in the operations and management plan, and the quality of the mitigation strategies to address them, specifically with respect to Intellectual Property management, strengthening U.S. manufacturing competitiveness, and engaging offshore wind developers and the offshore wind supply chain;
- Adequacy of the proposed offshore wind consortium performance metrics and how metrics will be tracked to gauge success of the consortium and impact in the technology area;

# Technical Merit Review Criteria - Continued

## Criterion 2: Project Plan (40%) - continued

### Data Management Plan

- Degree to which the Data Management Plan addresses a plan for an agreement with consortium partners regarding data rights and intellectual property consistent with the objectives of this Funding Opportunity Announcement.

### Outreach and Publicity Plan

- Degree to which the plan is sufficient in order to a) attract consortium partners, and b) attract and engage high-competency performers to engage in and complete the R&D activities under the consortium.

# Technical Merit Review Criteria - Continued

## Criterion 3: Team and Resources (20%)

### Consortium Team and Participants

- The capability of the proposed consortium administrator to lead the organization and the proposed team to address all aspects of the proposed consortium with a strong chance of success;
- Qualifications, relevant expertise, and experience of the proposed consortium administration team and key team members.
- Level of project time commitment by the proposed consortium administration team. Quality of the consortium participants, key technical personnel, and their level of technical capabilities and relevance to achieving the goals and objectives of the consortium and the FOA;
- Quality of the consortium participants and their level of commitment to support U.S. manufacturing competitiveness as defined in the U.S. Manufacturing Plan;
- Expertise and capabilities of the applicant to conduct and coordinate consortium R&D efforts to accomplish the project objectives.

# Technical Merit Review Criteria - Continued

## Criterion 3: Team and Resources (20%)

### Management and Governance Approach

- Effectiveness of the proposed management organization and governance structure to enable strategic and technical decision-making;
- Degree to which past experience is described showing the ability of the consortium administrator to operate as an independent, neutral, non-biased coordinating and convening body for a diverse set of stakeholders;
- Adequacy of the inclusion of Federal government (EERE and other Federal government participants identified by EERE) on decision making bodies (boards/committees) at both a strategic and technical level within the consortium ;
- The adequacy and quality of the proposed participation structure (i.e. tiered membership structure, pay-for-use arrangements, etc.) including the benefits and restrictions for each level of participation (such as IP rights) to incentivize broad private sector participation.
- The degree to which the approach describes allocation of intellectual property rights among consortium members that is consistent with applicable laws, regulations, and policies.