

DOCKETED	
Docket Number:	19-ERDD-01
Project Title:	Research Idea Exchange
TN #:	224982
Document Title:	Notice of Staff Workshop Re. Next Generation Wind Energy Technologies and their Environmental Implications
Description:	<p>The Energy Commission is considering releasing a solicitation to address the engineering challenges associated with the next-generation wind energy technologies, and to develop monitoring systems that increase the cost-competitiveness of wind energy generation and allow broader geographic deployment of wind power in California.</p> <p>This workshop will gather information and feedback from stakeholders and experts about key challenges associated with the design, manufacturing, and deployment of larger rotors and blades, taller land-based wind towers, cost-effective real-time monitoring control systems, and research to survey and monitor environmental responses to offshore wind energy projects in California.</p>
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Organization:	California Energy Commission
Submitter Role:	Energy Commission
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Docketed Date:	10/15/2018



In the matter of:) Docket No. 19-ERDD-01
)
 Research Idea Exchange) WORKSHOP RE:
) NEXT GENERATION WIND
) ENERGY TECHNOLOGIES AND
) THEIR ENVIRONMENTAL
) IMPLICATIONS

Notice of Staff Workshop Next Generation Wind Energy Technologies and their Environmental Implications

California Energy Commission staff will conduct a workshop to discuss research needs and opportunities for the next generation of wind energy technologies.

October 25, 2018

1:00 PM

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street

1st Floor, Imbrecht Hearing Room

Sacramento, California

(Wheelchair Accessible)

Remote Access Available by Computer or Phone via WebEx™
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Background

The 2018-2020 Electric Program Investment Charge (EPIC) Triennial Investment Plan identified the need to advance manufacturing techniques of wind turbine components for larger turbines; introduce new composite material for taller land-based wind towers and larger blades; and develop and deploy a cost-effective real-time remote monitoring and control system for offshore and land-based wind turbines (Strategic Initiative 4.2.1 and 4.2.2). Strategic Initiative 7.3.1 called for investigating the risks to sensitive species and habitats from renewable energy projects in California, including offshore wind.

Advanced land-based wind energy technology with taller towers and larger blades will allow California to reach stronger, more consistent winds found high above the ground. This could unlock wind energy's potential across an additional 24,700 square miles, with a potential capacity of 128 gigawatts (GW). California also has a technical resource

capacity of 159 GW of offshore wind. To enable the development and deployment of offshore wind energy in California, marine environmental research needs to be conducted to provide information that will assist in developing, planning, and permitting offshore wind projects. Similarly, instrumentation and monitoring systems on environmental responses and technology performance can provide an opportunity for improving operational efficiencies and cost competitiveness of offshore wind farms in California.

The Energy Commission is considering releasing a solicitation to address the engineering challenges associated with the next-generation wind energy technologies, and to develop monitoring systems that increase the cost-competitiveness of wind energy generation and allow broader geographic deployment of wind power in California.

This workshop will gather information and feedback from stakeholders and experts about key challenges associated with the design, manufacturing, and deployment of larger rotors and blades, taller land-based wind towers, cost-effective real-time monitoring control systems, and research to survey and monitor environmental responses to offshore wind energy projects in California.

Agenda

Discussion of the following topics is planned:

1. Advanced manufacturing and installation approach for utility-scale land-based wind turbine components
2. Real-time remote monitoring systems for offshore and land-based wind technologies
3. Next-generation land-based wind energy technologies and identification of pathways to successful implementation of taller and larger wind energy technology in California
4. Advanced implementation of cost-effective instrumentation, and real-time wireless remote monitoring and control systems to extend wind turbine lifetime, reduce levelized cost of energy, and increase productivity of offshore wind energy projects
5. Research needs, performance metrics, and economic viability to support development and deployment of next-generation wind energy technologies in California
6. Environmental and land use solutions to facilitate the transition to a decarbonized electricity system, including wind energy
7. Ongoing offshore environmental research and gaps relevant to planning and operations of offshore wind energy

Public Comment

Oral comments. Staff will accept oral comments during the workshop. Comments may be limited to three minutes per speaker. Any comments may become part of the public record in this proceeding.

Written comments. Written comments should be submitted to the Dockets Unit by **5:00 p.m. on November 1, 2018**. Written comments will be also accepted at the workshop, however, the Commission may not have time to review them before the conclusion of the meeting.

Please note that your written and oral comments, attachments, and associated contact information (e.g. your address, phone number, email address) become part of the viewable public record. This information may become available via Google, Yahoo, and any other search engines.

The Energy Commission encourages use of its electronic commenting system. Visit the website at <https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=19-ERDD-01>.

This link will take you to the page for adding comments to this docket. Please enter your contact information, any organization name, and a comment title describing the subject of your comments. You may include comments in the box titled "Comment Text" or attach a file in a downloadable, **searchable format** in Microsoft® Word (.doc, .docx) or Adobe® Acrobat® (.pdf). Maximum file size is 10 MB.

Written comments may also be submitted by emailing them (include docket number 19-ERDD-01) to the Docket Unit at docket@energy.ca.gov.

If you prefer, you may send a paper copy of your comments to:

California Energy Commission
Docket Unit, MS-4
Re: Docket No. 19-ERDD-01
1516 Ninth Street
Sacramento, CA 95814-5512

Public Adviser and Commission Contacts

The Energy Commission's Public Adviser's Office provides the public assistance in participating in Energy Commission proceedings. If you want information on how to participate in this forum, please contact the Public Adviser, Alana Mathews, at PublicAdviser@energy.ca.gov or (916) 654-4489, or toll free at (800) 822-6228.

If you have a disability and require assistance to participate, please contact Erica Rodriguez at erica.rodriguez@energy.ca.gov or (916) 654-4314 at least five days in advance.

Media inquiries should be sent to the Media and Public Communications Office at mediaoffice@energy.ca.gov or (916) 654-4989.

If you have questions on the subject matter of this meeting, please contact Silvia Palma-Rojas at Silvia.Palma-Rojas@energy.ca.gov or (916) 327-1716.

Remote Attendance

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Availability of Documents

Documents and presentations for this meeting will be available online at

<https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=19-ERDD-01>

Mail Lists:

EPIC listserv; Research listserv