UMASS CLEAN ENERGY EXTENSION

Quarterly Progress Report to
MA Department of Energy Resources

Period ending March 31, 2026

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This Progress Report provides a summary of work accomplished by the UMass Clean Energy Extension (CEE) during the period January 1, 2026 to March 31, 2026.

During this reporting period, Dr. Dwayne Breger retired and Dr. Kira Lawrence assumed leadership of the Clean Energy Extension (CEE). While Dwayne's role at UMass and with CEE continues on a part-time basis under a post-retirement position, Kira now serves full-time in the Director role. Kira comes to UMass after 5 years of service to the New Jersey Board of Public Utilities (NJBPU), where she served as a Senior Scientist in the Division of Clean Energy, Acting Deputy Director for Offshore Wind, and most recently as Senior Policy Advisor. Her portfolio during her service to NJBPU included co-development of the New Jersey Research and Monitoring Initiative, developing workforce development pathways into BPU, contributing to and then leading offshore wind solicitations and managing awarded projects, working on coordinated transmission efforts, as well as overseeing the Office of Federal and Regional Policy. Kira is getting up to speed on all existing CEE projects and engagements as well as charting a path forward for the program based on team strengths and existing and emerging needs for extension type support for clean energy and energy efficiency in the Commonwealth.

Externally Funded Project Activities[1]

In this section, we provide updates and progress on projects for which CEE has received substantial funding support from outside the DOER Interagency Service Agreement (ISA). We recognize that these activities still rely critically on the ISA for enabling CEE to pursue external funds and to sustain our staff and office needs generally.

Impacts of Dual-Use Solar on Crop Productivity and the Agricultural Economy in Massachusetts and Beyond

Prime Funding: U. S. Department of Energy

CEE, in collaboration with state solar industry partners, state agencies (DOER and MDAR), American Farmland Trust, and UMass collaborators, is leading a $1.8M research project for *Impacts of Dual-Use Solar on Crop Productivity and the Agricultural Economy in Massachusetts and Beyond,* funded by the U.S. Department of Energy, Solar Energy Technology Office.

[1] Note on External Funds and CEE: An important strategic objective of CEE is to attract funds beyond our ISA with DOER. These external funds are tied to specific scopes of work and displace a portion of CEE core staff salaries from DOER funds; however, the bulk of these funds are typically used to extend CEE's capacities with other faculty, graduate students, consultants, and expenses tied to the project scope.

This quarter marked the closeout period for this project. The research team completed data analysis, updated our project website including a map of (ASTGU) agrivoltaic projects qualified in Massachusetts, and drafted and submitted our Final Technical Report to DOE. Once this report is approved by DOE, the report will be made publicly available by DOE and will be posted on our CEE website. The research effort is further detailed in eight peer-reviewed journal publications (published or in-progress), and new and updated fact sheets. The research provided important contributions to the literature on: 1) the challenges and benefits of conducting on-farm research within commercial solar and agricultural operations, 2) monitoring and analysis of microclimate conditions around and within agrivoltaic arrays, 3) conditional impacts on agricultural productivity and quality across both perennial (cranberry) and field crop projects, and 4) survey on perspectives of agrivoltaics. CEE and the research team plan to contact DOER and MDAR to discuss this work and outcomes further. We continue to support the DOE Solar Energy Technologies Office on their broader agrivoltaics efforts.

Offshore Wind Energy Professional Graduate Certificate Program
Prime Funding: UWW Registration Fees; Mass Clean Energy Center, OSW Workforce Development Program (see related MassCEC grant below).
CEE continues to develop and manage the program in coordination with the UMass Department of Environmental Conservation, the College of Natural Sciences (CNS), and University Without Walls (UWW).

During this quarter, CEE began the Spring 2026 program course (ECO 611 *Offshore Wind Energy: Environmental Impacts, Siting, Permitting, and Stakeholder Engagement*), with enrollment of 9 students. This represents a significant reduction in enrollment compared to our typical numbers, as anticipated given the federal government's recent efforts to curtail offshore wind development in the United States. Enrollment for the Summer 2026 course, ECO 612 *Offshore Wind Energy: Project Economics, Deployment, and Business Logistics,* opened on March 16th. To broaden the value and interest in our program, we have made some adjustments to our curriculum to emphasize the relevance of our program to international offshore wind development and in skills relevant to other fields within the clean energy sector.

Expanding Offshore Wind Career Pathways for Port Communities and other Affinity Groups (for the UMass Amherst Offshore Wind Professional Certificate Program)
Prime Funding: Mass Clean Energy Center, OSW Workforce Development Program.
CEE was awarded a grant from MassCEC to expand access to offshore wind career pathways for Massachusetts' port communities. The grant will support 10 OSW Career Access Scholars in our Offshore Wind Professional Certificate program, targeting individuals from the key port regions of New Bedford and Salem.

During this period, a first cohort of 5 scholarship students enrolled and began the certificate program in the Spring 2026 semester. This cohort includes 4 women, 2 residents of Environmental Justice Communities, 2 people with disabilities, 2 BIPOC, one LGBTQIA+ individual, and one veteran. We held the first of four structured mentorship sessions on March 9th, on the topic of career visions, and provided additional professional support to several students. We also provided individual support to a student in the cohort to purchase a laptop

needed for the successful completion of the course, which will also be helpful to their future professional success.

Providing Clean Energy Extension to the Massachusetts Farm Sector
Prime Funding: U.S. Department of Agriculture - Natural Resources Conservation Service (NRCS)
CEE was awarded a grant from USDA NRCS to provide technical assistance and support Massachusetts' farms with actionable recommendations and implementation support to reduce their energy use and energy costs. This grant will support a new half-time CEE staff position, and the other half of the full-time position will be funded by the UMass Center for Agriculture, Food, and the Environment to meet UMass Agriculture Extension's need for an agricultural engineering resource.

The Agricultural and Energy Engineering program continued active service delivery through the first quarter of 2026, with producer engagement expanding across a broader range of agricultural operation types and geographies. The period was characterized by increased audit throughput, significant technical tool development, and expanded outreach to new producer communities.

Direct producer engagement increased substantially, with energy audits and consultations conducted across a diverse range of operations including dairy facilities, greenhouse production, grain handling systems, orchard and cidery operations, specialty crop production, and diversified agricultural enterprises. Site visits addressed energy efficiency opportunities spanning irrigation pump replacement, refrigeration system retrofits, combustion system improvements, motor and fan replacements, and building envelope upgrades. Multiple producers were connected with NRCS field staff to initiate Environmental Quality Incentives Program (EQIP) enrollment processes, while others were referred to parallel funding pathways through the Massachusetts Department of Agricultural Resources and utility programs including Mass Save.

Technical capacity advanced with the development of a comprehensive greenhouse energy audit spreadsheet tool designed to support ASHRAE Level 2 and CEMA 228 compliant assessments for greenhouse operations. The tool evaluates all NRCS greenhouse conservation practices individually and calculates cumulative energy reductions when multiple practices are implemented together, correcting for measure stacking overlap not accounted for in existing NRCS calculation methodology. The tool also sizes replacement heating equipment based on recommended envelope improvements and produces producer-facing payback and fuel reduction estimates grounded in accurate combined-measure modeling. The tool was shared with NRCS engineering staff and is being applied to active audits.

Outreach activities expanded program reach within the cranberry and floriculture producer communities. A presentation to approximately 120 cranberry growers and industry personnel at the UMass Cranberry Management Update Winter Meeting generated immediate producer inquiries. A subsequent presentation to approximately 125 attendees at the Massachusetts Flower Growers Association training event at the New England Botanical Garden at Tower Hill generated substantial interest and producer follow-up. Partnership development continued with agricultural service providers including the MDAR Farm Viability Enhancement Program network, with coordination to establish cross-referral pathways connecting producers receiving business planning assistance with available energy audit services.

Web-based technical resources were updated and expanded to reflect current NRCS conservation practice standards and Massachusetts SMART 3.0 program requirements, improving producer access to current program information.

Offshore Wind and Wildlife Research & Collaboration
Prime Funding: Regional Wildlife Science Collaborative for Offshore Wind (RWSC)
Through a funded contract, CEE senior research fellow Zara Dowling serves as coordinator for RWSC's Bird and Bat Subcommittee, coordinating and facilitating research and information-sharing on issues relevant to offshore wind energy and bird and bat conservation along the U.S. Atlantic Coast.

This quarter, the Bird & Bat Subcommittee held three meetings (January, February, March). These meetings addressed updates to existing guidance for offshore Motus tracking of birds and bats, acoustic monitoring, and bat study species prioritization, as well as opportunities to provide feedback on newly funded research to conduct acoustic monitoring in the Gulf of Maine and conduct an assessment of avian vulnerability to collision and displacement at offshore wind energy facilities. We also hosted a listening session on wind/wildlife research priorities led by the Renewable Energy Wildlife Institute.

U.S. DOE Offshore Wind Academic Center for Reliability and Resilience of Offshore Wind (ARROW) Center of Excellence
Prime Funding: U.S. Department of Energy, Mass Clean Energy Center

The Wind Energy Center at UMass was selected to lead the Academic Center for Reliability and Resilience of Offshore Wind (ARROW), a multimillion-dollar national Center of Excellence to accelerate reliable and equitable offshore wind energy deployment across the nation and produce a well-educated domestic offshore wind workforce. The Center of Excellence includes 7 other academic institutions and 3 national laboratories. CEE supports the educational mission of the ARROW scope of work.

CEE continues to participate in leadership team meetings. The ARROW team has sought to leverage Kira Lawrence's previous experience in government working directly on offshore wind procurement and project management to inform some of its planning activities for the Summer Education Accelerator (SEA), which will occur in May 2026 at UMass Dartmouth. CEE Director Lawrence also helped facilitate engagement with DOER on a potential opportunity for the DOER Offshore Wind Team to host an ARROW-funded intern to bring technical and analytical expertise to support their work.

Green Communities and Municipal Support

In this section, we provide updates and progress on our activities directly serving Massachusetts municipalities in coordination with the Green Communities program. These activities are funded by DOER under the scope of our ISA.

MassEnergyInsight Technical Support
Prime Funding: OptiMiser, as subcontract with DOER Green Communities
CEE provides user support services to Green Communities MassEnergyInsight (MEI) users in partnership with DOER and OptiMiser, LLC.

During this quarter, CEE successfully addressed 90 requests for user support across 60 municipalities and other entities. CEE participated in 13 regular team meetings with DOER and OptiMiser. We continued ongoing efforts to keep documentation up to date, including the online FAQs, and initiated the process of updating training videos that highlight the new MEI interface and features. We continued training Barry Fradkin as our new, full-time *Municipal Clean Energy Extension Educator*, whose work includes responsibility for day-to-day MEI support.

Other Municipal Support

This quarter, CEE continued work with the Town of Conway to carry out a solar planning process using CEE's *Community Planning for Solar* toolkit. As part of this process, CEE developed a series of maps highlighting existing infrastructure, environmental constraints, land use, and site suitability indices associated with the latest clean energy siting guidelines. CEE staff are also working on updating toolkit factsheets, guides, and resources, as well as associated websites with solar information targeted at municipalities.

Additionally, CEE continued ongoing coordination with regional planning agencies in western Massachusetts, including participating in PVPC's quarterly Clean Energy Climate Action Group meeting in January and meeting with FRCOG staff to understand ongoing municipal energy issues in their region and share resources. CEE staff also helped FRCOG review a draft RFP for a solar array being pursued on a landfill in Orange, MA.

Other Project Activities and Initiatives

In this section, we provide updates and progress on projects and initiatives that CEE pursues using funding primarily supported under the scope of our ISA.

ASTGU (Dual-Use Solar) Pre-determination Application Review for DOER SMART

During this quarter, CEE and extension staff completed the review of 8 dual-use pre-determination applications (3 of which were revisions of previously submitted applications) and began the review of 3 additional applications.

Pollinator-Friendly Solar Certification Program

CEE's Pollinator-Friendly Solar Certification Program encourages the establishment of native plants and other ecologically friendly practices at solar PV facilities to benefit pollinators and other wildlife. Certified sites become eligible for the Pollinator Adder in the state's SMART solar incentive program.

During this reporting period, we initiated analysis of vegetation survey data collected at pollinator-friendly solar facilities, as well as conventional solar facilities studied for comparison. We communicated with all solar facility owners participating in our program to re-certify participating sites and plan for additional surveys and research during the growing season. We also retrieved and processed data from acoustic detectors and trail cameras deployed at conventional and pollinator-friendly solar sites. This summer, we will be collaborating with Clark University graduate students and faculty to continue avian research at a subset of solar facilities.

Clean Energy in the Cultural Sector

CEE is assisting the UMass Arts Extension Services (AES) to support their project funded by a *MassCEC FY23 and FY25 EmPower Massachusetts Innovation & Capacity Building Grant*. The project is working with Massachusetts non-profit small arts and cultural organizations in their clean energy transition, resiliency, and community and sustainability goals. CEE is providing technical support on an organizational and site survey to understand organizational goals and collect energy data.

During this period, CEE completed data collection, processing, and analysis of utility bills, and developed estimates of heat pump operating costs for comparison against existing fossil-fuel heating systems. CEE staff contributed to the development of opportunity matrices to highlight options for decarbonization, energy efficiency, and financing and incentive programs to support the energy transition for project participants. Virtual meetings were held with all eight arts and culture organizations to review their energy use and customized opportunity matrix.

UMass: Decarbonization Subcommittee of the Chancellor's Sustainability Advisory Committee

Dwayne Breger represents CEE on the Decarbonization Subcommittee of the Chancellor's Sustainability Advisory Committee. This subcommittee is charged with supporting the University's effort and commitment to decarbonize the campus in alignment with Massachusetts EO 594 and as a living lab for research, education, and community engagement.

During this reporting period, the Decarbonization Subcommittee selected RMF Engineering to work with the University to evaluate technical and cost feasibility of potential decarbonization strategies related to its Scope 1 and 2 emissions, and to support campus outreach and engagement. The subcommittee met with the contractor team in March to finalize the scope of work and to plan a campus kick-off visit in April.

Business and Community Outreach and Support

The Clean Energy Extension staff held substantive direct interactions with the following businesses, state entities, and other organizations.

Entity and Attendees	Date and Format	Extension Staff	Purpose and Outcomes
Cynthia Marie, Farmarie, Norton	January 6 and 15, In-Person / Virtual	Pelaia	Assessed NRCS cost-share eligibility and connected producer with MDAR Matching Enterprise Grant Program as primary funding pathway.
UMass-NRCS Coordination Meeting	January 8, In-Person	Pelaia	Reviewed agreement protocols with NRCS engineering staff and established shared file access on UMass OneDrive.
Jonathan Carr, Carr's Cider House, Hadley	January 15, In-Person	Pelaia	Energy audit site visit for cider syrup production facility. Identified water heater, evaporator, preheater, and generator replacement opportunities.

Entity and Attendees	Date and Format	Extension Staff	Purpose and Outcomes
Community College Clean Energy Pathways Discussion	January 19, Virtual	Breger, Dilthey, Lawrence	Met with President of Bunker Hill Community College, and the workforce development leads at the Alliance for Climate Transition and Massachusetts Association of Community Colleges about how CEE might help community colleges build out their clean energy career pathways.
William Llewellyn, Five Point Farm, Northfield	January 20, In-Person	Pelaia	Second site visit to collect motor inventory and equipment specifications for grain drying and storage energy audit.
Harrison Bardwell, Bardwell Farm, Hatfield	January 22, In-Person	Pelaia	Energy audit site visit for greenhouse and irrigation operation to identify NRCS-eligible efficiency improvements.
MassCEC Offshore Wind Team	January 29, Virtual	Lawrence, Breger, Dilthey	Met to introduce new Director Kira Lawrence and connect with MassCEC OSW team about existing projects and potential future opportunities.
Franklin Regional Council of Governments staff	February 6, Virtual	Dowling, Fradkin, Lawrence, Mattison	Met with FRCOG staff to discuss areas of overlap and avenues to assist municipalities with clean energy planning and implementation
CAFE Board of Public Overseers (BOPO)	February 10, In-Person	Lawrence	Presentation to the BOPO on incoming Director Lawrence's vision for the future of CEE
Massachusetts Association of Community Colleges (MACC), Alliance for Climate Transition (ACT)	February 12, Virtual	Dilthey, Lawrence	Met with workforce development directors for MACC and ACT to discuss potential collaboration on clean energy and energy efficiency career pathways.
Gloucester Marine Station (GMS) Faculty	February 13, In – Person	Lawrence	Participated in workshop discussions with UMass faculty about potential collaborative opportunities at GMS that might synergistically intersect with CEE's offshore wind workforce development efforts.
UMass Amherst Facilities	February 17, Virtual	Fradkin, Lawrence	Met for an initial discussion with Executive Director of UMass Facilities about battery storage siting and safety education.
Al Rose, Red Apple Farm, Phillipston	February 19, In-Person	Pelaia	Follow-up site visit with NRCS to establish audit scope. Identified irrigation pump and solar pump battery storage opportunities and initiated Mass Save referral.
Massachusetts Association of Community Colleges (MACC), Alliance for Climate Transition (ACT)	February 20, Virtual	Dilthey, Lawrence	Met with workforce development directors for MACC and ACT to discuss potential collaboration on clean energy and energy efficiency career pathways.
MassCEC Offshore Wind Works Community of Practice (CoP) meeting	February 25, Virtual	Dilthey	Collaboration with fellow grantees, program updates

Entity and Attendees	Date and Format	Extension Staff	Purpose and Outcomes
Massachusetts Association of Community Colleges (MACC), Alliance for Climate Transition (ACT)	February 26, Virtual	Dilthey, Lawrence	Met with workforce development directors for MACC and ACT to discuss potential collaboration on clean energy and energy efficiency career pathways at community colleges.
Stevie Schaffenecker, Stevie Grows	March 2, In-Person	Pelaia	Met with agricultural business planning consultant to establish cross-referral opportunities for producers in MDAR Farm Viability Enhancement Program.
MassCEC Net Zero Grid team	March 12, Virtual	Lawrence, Breger, Yellen	Discussed advanced/enhanced geothermal technology and work of the State Geologist and campus decarbonization.
New England Clean Energy Roundtable	March 20, In-Person	Lawrence	Networked with government and industry leaders in the energy sector.
DOER Visit	March 20, In-Person	Lawrence	Met with Commissioner Mahony and Division Directors to discuss how CEE can best support the acceleration of the clean energy transition in MA.
Bristol Community College (BCC) Workforce Development	March 27, Virtual	Dilthey, Lawrence	Meet with BCC staff to discuss potential collaboration on clean energy and energy efficiency career pathways.
UMass Amherst Facilities and Environmental Health and Safety Staff	March 30, Virtual	Lawrence, Fradkin	Met with UMass staff involved with Battery Energy Storage System (BESS) planning and development on campus to initiate planning for a series of educational videos on battery storage permitting and safety.

Public Events and Outreach Activities

In this section, we itemize significant public-facing events and outreach activities in which CEE participated.

Event	Date and Location	Extension Presenter/ Attendee	Presentation Title/Topic	Audience	Estimated Attendance
PVPC Clean Energy Climate Action Group quarterly meeting	January 13, Virtual	Fradkin	Participated in meeting with regional planning agency and municipal energy staff	RPA staff, municipal energy managers	30
Northeast Bat Working Group Meeting	January 14-16, Virtual	Dowling	Bat tracking priorities for coastal/offshore research	Bat researchers, environmental consultants, and state agency staff	90
RWSC Bird & Bat Subcommittee meeting	January 27, Virtual	Dowling	Presentations and discussion on updated offshore monitoring guidance for birds and bats as well as study species prioritization	Bird/bat researchers, offshore wind industry, eNGOs, state and federal agency staff	50

Event	Date and Location	Extension Presenter/ Attendee	Presentation Title/Topic	Audience	Estimated Attendance
Cherry Hill Cohousing tour	February 4, Amherst, MA	Kraus	Gave tour of cohousing community	Landscape architecture students	20
International Partnering Forum (IPF), Oceantic	February 9-12, New York, NY	Dilthey	Tabled for Offshore Wind Professional Certificate	Offshore wind professionals	800
Atlantic Flyway Council	February 24, Virtual	Dowling	RWSC bird research coordination efforts along the U.S. Atlantic coast	Bird researchers, state agency staff	35
RWSC Bird & Bat Subcommittee meeting	February 24, Virtual	Dowling	Presentations and discussion on recently funded bird/bat research along US Atlantic coast; Subcommittee workplan priorities for this year	Bird/bat researchers, offshore wind industry, eNGOs, state and federal agency staff	50
UMass Sustainability & Clean Energy Career Fair	February 27, UMass Amherst	Dilthey, Kraus	Tabled at career fair, for Offshore Wind Professional Certificate as well as student intern opportunities at CEE	Undergraduate and graduate students	300
Massachusetts Flower Growers Association Annual Training	March 3, New England Botanical Garden at Tower Hill, Boylston (In-Person)	Pelaia	NRCS greenhouse energy conservation practices and immediate operational energy improvements for the active heating season	Floriculture producers and industry personnel	125
UMass LA303 Multifamily Housing Studio review	March 12, UMass Amherst	Kraus	Provided review for student presentations of multifamily housing design projects	Landscape architecture students	30
Southeast Biodiversity Network meeting	March 13, Virtual	Dowling	RWSC bat research coordination efforts and bat tracking priorities	Bat researchers, environmental consultants, and state agency staff	50
Monmouth University Webinar “What Up with Mid Atlantic Offshore Wind”	March 18, Virtual	Lawrence	Served as a presenter and panelist for this forum.	Offshore wind stakeholders	>150
UMass Campus Decarbonization Forum	March 27, UMass Amherst (and Virtual)	Fradkin, Kraus, Pelaia	Hosted forum on campus decarbonization, featuring presentations from Smith College, UMass Chan Medical School, University of Michigan, and UMass Amherst	Sustainability staff from multiple colleges & universities, students	50 in person

Event	Date and Location	Extension Presenter/ Attendee	Presentation Title/Topic	Audience	Estimated Attendance
RWSC Bird & Bat Subcommittee meeting	March 31, Virtual	Dowling	Listening session with REWI on wind/wildlife research priorities	Bird/bat researchers, offshore wind industry, eNGOs, state and federal agency staff	50

Prospective Activities and Proposals

In this section, we provide updates and progress on proposals and collaborations that CEE pursues for prospective funded work to support CEE directly or in collaboration with activities led by other units on campus.

MassCEC Offshore Wind Workforce Grant Application

CEE is working to prepare a grant application to MassCEC's 2026 Offshore Wind Workforce Grants solicitation. The proposal, due in mid April, focuses on strengthening the Offshore Wind Works Community of Practice (CoP) Network by partnering with other CoP members to recruit Career Access Scholars from their organizations or constituent networks. The emphasis is on recruiting individuals from port communities and specifically those who can contribute to operations and maintenance related industries. The grant applicant also includes a proposal to work with EEA to support the Offshore Wind MOU signed in February by Governor Healy and Premier Houston from Nova Scotia that includes collaborating on workforce development among other key areas. CEE would endeavor to attract cohorts of Nova Scotia based participants to the offshore wind certificate program to support workforce development in the nascent offshore wind industry in Nova Scotia.

MassCEC Equity Workforce Training Implementation Grant Application

CEE has been engaging with the Massachusetts Association of Community Colleges, the Alliance for Climate Transition and Greenfield and Bristol Community Colleges to develop a grant proposal to MassCEC's Equity Workforce Training Implementation RFP. CEE is proposing to identify and formulate a plan to address career pathway gaps in existing clean energy and energy efficiency programs to better prepare community college students for careers in these sectors. This planning project would focus on identifying common gaps in existing programming, leveraging existing curriculum resources, aligning with community college faculty and administrators along shared goals, and designing a flexible and standardizable curricular delivery model that can be piloted at one or more partner institutions in subsequent phases. This effort would ultimately seek to emulate the successful community college-based training models in the healthcare sector, and through collaboration with both community colleges and potential employers support more robust and holistic career pathways in clean energy and energy efficiency over the long-term.

Battery Energy Storage Systems Education and Engagement

Based on conversations with the Renewable and Alternative Energy Division Director and the Commissioner of DOER about the need for Battery Energy Storage System (BESS) safety education and training, CEE has engaged UMass Amherst Facilities & Campus Services Office which oversaw the installation of and now operates UMass' BESSs. CEE, is now in active discussions with UMass Facilities and the UMass Environmental Health and Safety about the development of some educational public facing BESS siting and safety videos. CEE will engage with DOER about this work as it progresses.

Building on this initial work, CEE is also exploring additional ways to engage relevant stakeholders including potentially facilitating a BESS forum, emulating the successful CEE-hosted Western MA Solar Forum (2023) and a "how to" guide for towns and developers about best practices for engagement on BESS. CEE plans to reach out to DOER in early Q2 about these potential additional efforts to support outreach regarding BESS siting and safety that are above and beyond the existing scope of the ISA.

University-based Proposals and Initiatives

CEE is engaged in university programs and initiatives, including:

- Energy Transition Institute, Steering Committee
- Academic Center for Reliability & Resilience of Offshore Wind (ARROW), Advisory Committee
- Chancellor's Sustainability Advisory Committee, Decarbonization Subcommittee
- School of Earth and Sustainability Pan-Campus Advisory Council
- ELEVATE (graduate energy transition research program)

Student Engagement

In this section, in keeping with our mission to support students and workforce development, we list graduate and undergraduate students who have engaged with CEE during reporting period. Given confidentiality concerns, we provide only the students' initials in this publicly accessible report.

Student Initials, Status	Department	Extension Staff Mentor	Project Description
M.D., Graduate Student	Environmental Conservation	Lawrence	Support pedagogy and instruction of OSW Certificate program courses.