

NCERA-101 Station Report

Resource Innovation Institute, Portland OR
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April 25, 2024 – April 25, 2025



3. Accomplishments:

In partnership with Berkeley Lab (LBNL), progress on 2-year U.S. Department of Energy project: 'Leveraging Investments to Accelerate CEA Efficiency and Decarbonization at Scale' (CEA Market Accelerator)

3.d. Milestones

- Completed content for CEA technology catalog featuring 90+ technologies, which will drive utility incentives
- Developed and validated site feasibility tool with geospatial data integration
- Completed public database with of grants and technical assistance programs
- Established five industry/academic working groups focused on:
 - AI & Advanced Robotics (13 states represented)
 - Energy Management (12 states represented)
 - Colocation of Greenhouses with Waste Heat Sources (11 states)
 - High-Tech Greenhouse Knowledge Transfer (9 states)
 - Low-Tech Greenhouse Efficiency Strategies (8 states)
- Developed best practices guides on AI & Advanced Robotics, CEA Energy Management, and Greenhouse Fire Codes
- Advanced credentialing program with recorded modules for market release

4. Impact Statements

- Conducted extensive outreach through trade publications, blogs, webinars, and podcast appearances to disseminate CEA best practices
- Expanded work with state and federal partners on multiple initiatives:
 - California: Title 24 Energy Code Outreach and Grower Resource Efficiency Education
 - Maryland: CEA Market Study for efficiency incentives
 - New York: CEA Benchmarking for energy and water usage reporting
 - Pennsylvania: Ag Circularity Research connecting multiple ag sectors
 - Virginia: CEA-Data Center Colocation strategy development
- Launched Farm Parks Initiative - a public-private effort to establish high-tech agricultural clusters that increase farm productivity, advance shared infrastructure, and integrate circular systems for food, energy, and water