## Charting the Course for Climate Change Education in New Jersey Dr. Lauren Madden, The College of New Jersey

# Environmental Sustainability Education School of Education HOME CORE COURSES MINOR GRADUATE CERTIFICATE NEWS LINKS Q

Environmental sustainability education minor receives national accreditation



The College of New Jersey's minor in Environmental Sustainability Education recently received accreditation by the North American Association for Environmental Education.



#### So, we got to work right away

April 2020:

Recruited participants by email and social media to participate in survey

166 teachers responded & 164 agreed to participate & completed the survey

A focus group with 10 participants was held later to elaborate on and follow up on the trends from the survey

Participants were asked about climate change, marine science and the NGSS with respect to their own content knowledge and teaching

Marine Science, Climate
Change, and the Next
Generation Science
Standards: Understanding
the Knowledge and
Perspectives of K-8 New
Jersey Teachers

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RESEARCH AND EVALUATION

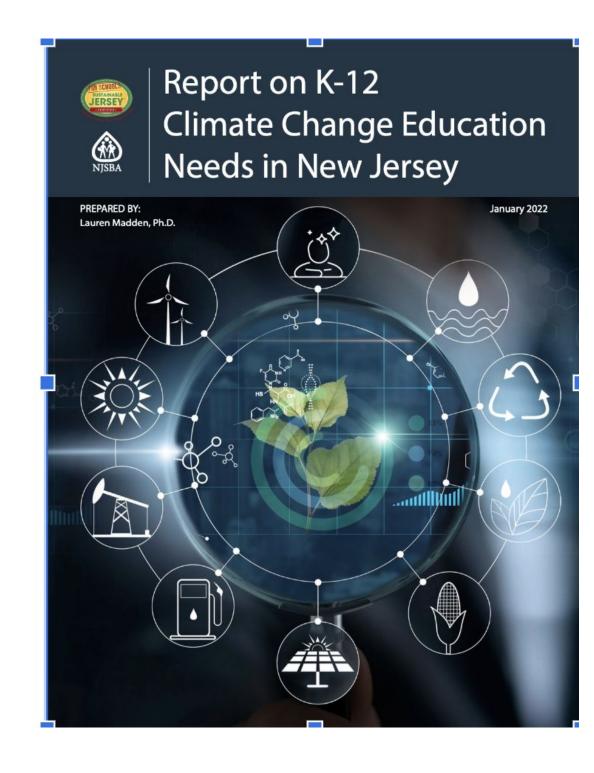
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#### Vision

Ensure that all teachers,
students and educational
leaders in New Jersey
understand climate change
and are empowered develop
solutions to climate-related
problems.

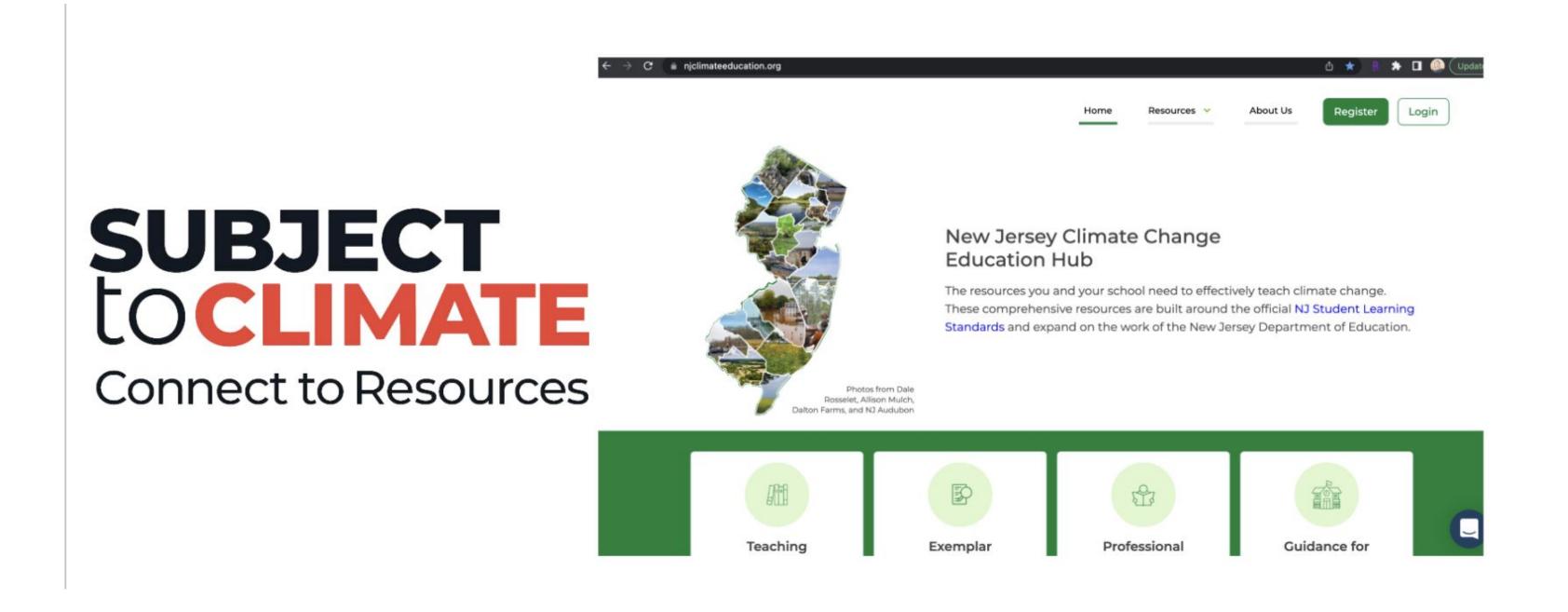


#### Goals

- Ensure that all New Jersey public school teachers are prepared to fully integrate climate change education across grade levels and content areas within five years of adoption of the 2020 New Jersey Student Learning Standards.
- Educate all members of school communities, including families, students, teachers, school staff, administrators, school board members and community partners on scientifically accurate information regarding climate change to ensure that schools are designed to foster a sustainable future and economic prosperity.
- Encourage community-focused collaboration among stakeholders including board members, students, families and teachers, facilities professionals and administrators to ensure that schools develop a comprehensive approach to climate change education.
- 4. Use an equity-focused approach to ensure that the neediest schools and districts receive the necessary financial and logistical support for climate change education implementation. Further, the disproportionate effects of climate change seen by communities of color, immigrant communities and low-income communities must be highlighted.
- 5. Center climate change education and experiences on what is happening locally. Place-based approaches to education that emphasize the New Jersey-specific effects of climate change, and the local actions that impact global trends are more likely to make a lasting impact with students and motivate communities to commit to solution-building.
- Provide multiple entry points to allow for school- and teacher-autonomy in deciding how to integrate climate change content within each unique learning context.

Long story short, we provided clear guidance with regard to supporting:

- a. Teacher Professional Learning
- b. Curricular Resources
- c. Community-based ClimateChange Education
- d. Support from School Boards and Administrators



### And...it became critical to document the story as it unfolded. This work is unprecedented.

 We conducted a survey-based study in June & Dec 2022 assess teachers' preparedness with respect to teaching about climate change

#### New Jersey Teachers' Perspectives on the Implementation of K-12 Climate Change Standards Initial Findings from Surveys in June and December 2022 Lauren Madder Julia Turner Professor of Elementary and Early Childhood Senior Research Associate Eileen Heddy Samantha Lindsay The College of New Jersey, School of Education The College of New Jersey, School of Education Graduate Assistant Isabelle Pardew Margaret Wang SubjectToClimate Chief Operating Officer Research and Operations Associate

#### Some key findings

- 51 & 73 teachers responded representing all grade levels and content areas, and at least 23 school districts
- Mixed responses with regard to their familiarity with the standards
- The majority of respondents (57%) cited that they needed more access to curricular materials
- An even larger number (75%) noted that they needed more professional learning opportunities





For more information, next steps, or copies of articles, email: maddenL@tcnj.edu