

THE UNIVERSITY OF NEW MEXICO

ALBUQUERQUE, NEW MEXICO



Vice President for Research Gabriel P. López

Area of Expertise: Materials Science & Engineering

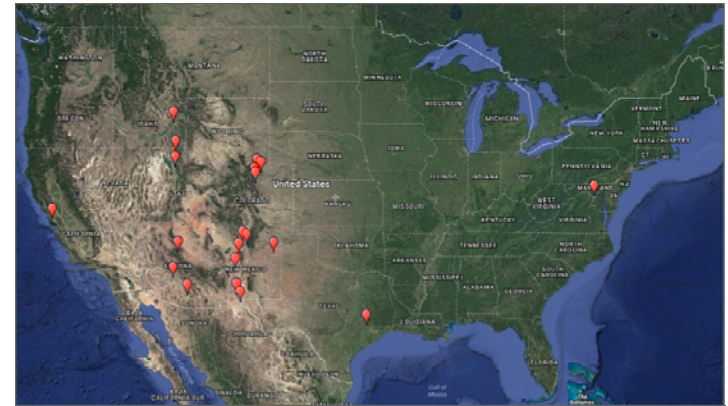
Major Takeaways: The University of New Mexico Forum

Forum Overview

- >136 participants from academia (70), national laboratories (25), industry (23), government (15), non-governmental organizations (3) and 5 panels of experts from all these sectors
- Southwest Mountain Region (NM, AZ, CO, UT, ID)
- Keynote comments by DOE Secretary Moniz, US Senators Udall and Heinrich
- Discussed revolutionary new approaches to clean energy production and utilization based on new materials technologies (hydrogen, photovoltaics, energy storage, advanced nuclear energy systems).

Key Takeaways

- Opportunities & Priorities
 - Transformative, disruptive technologies will be needed to allow Mission Innovation to succeed.
 - Materials research, development, translation and commercialization is the best technological opportunity in transformational clean energy.
- Current Regional Innovation Ecosystem
 - The Southwest Region is uniquely poised intellectually, technologically and geographically, is a national leader in materials research and development for energy applications and is an established hub for energy materials innovation and commercialization.



MATERIALS TECHNOLOGIES FOR CLEAN ENERGY



Hydrogen



Photovoltaics



Energy Storage



Advanced Nuclear
Energy Systems

The University of New Mexico: Key Takeaways (continued)

- Building a Broader Ecosystem
 - The Southwest Region demonstrates a strong presence of existing and well established public/private partnerships that can be leveraged and further enhanced.
- Challenges
 - Determining the promise of proposed technological advances will require linkage to economic models and climate modeling capability.
- Next Steps
 - Regional Summits & Workshops hosted by:
 - US Senator Heinrich's Energy Summit – Energy Storage Strategies for Industry & National Security
 - Sandia National Laboratories – New Mexico Regional Energy Storage & Grid Integration Workshop
 - Arizona State University – Water-Energy Nexus Event
 - Colorado Energy Research Collaboratory – North Central / Inter Mountain West Regional Clean Energy Innovation Summit
 - Innovate New Mexico – Technology Showcase
 - Los Alamos National Laboratory / New Mexico Consortium efforts in clean renewable bioenergy
 - Regional Stakeholders developing concept papers

