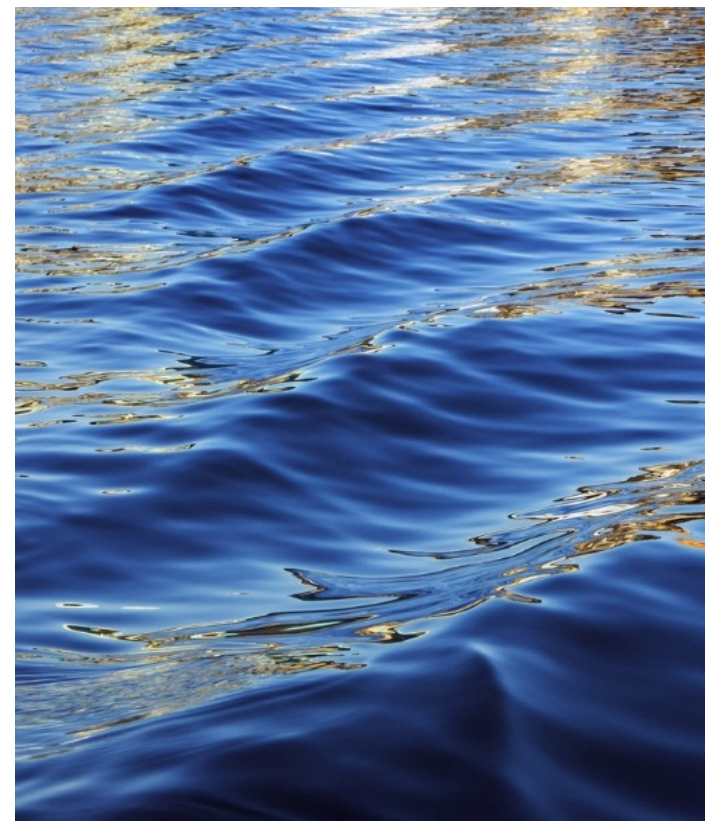




# Climate Stakeholder Listening Session: Energy Efficiency, Clean Energy, and Grid Modernization

June 2020



# Agenda

Introductions (10 min)

New Mexico Climate Change Overview (10 min)

Overview of Current Priorities and Plans (20 min)

- Energy Efficiency
- Clean Energy & Grid Modernization

Comments and Questions (45 min)

Close (5 min)

# State Team Introductions

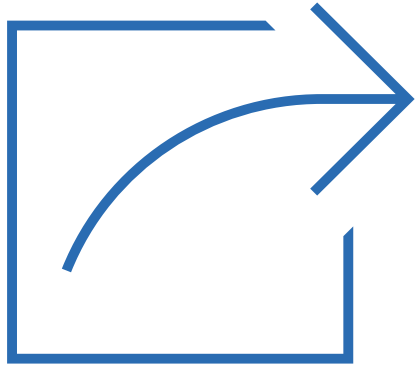
## Presenters

- Laura Tabor, Sustainability and Resilience Officer
- Alyssa Latuchie, Clean Energy Economist
- Jacqueline Waite, Clean Energy Program Manager

## Climate Change Task Force Contributors

- Andrew Miner, DFA
- Johanna Nelson, EDD
- Daren Zigich and Mark Gaiser, EMNRD
- Fernando Martinez and Brian Johnson, RETA
- Martin Romero, RLD
- Jeremy Lewis, SLO
- Emily Oster, TRD

# Listening Session Goals



Share Climate Change Task Force updates related to energy efficiency, clean energy, and grid modernization

Listen to your input on:

- Priorities and goals
- Strategies and tactics to reach our goals
- Suggestions for future engagement





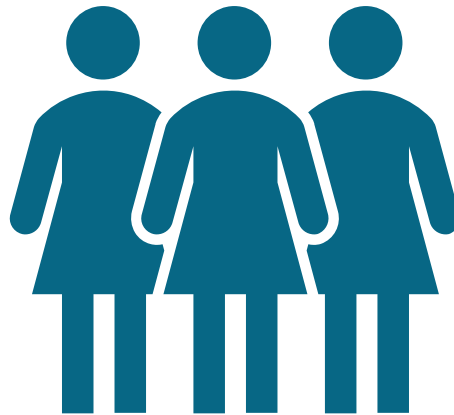
# NM Climate Change Strategy



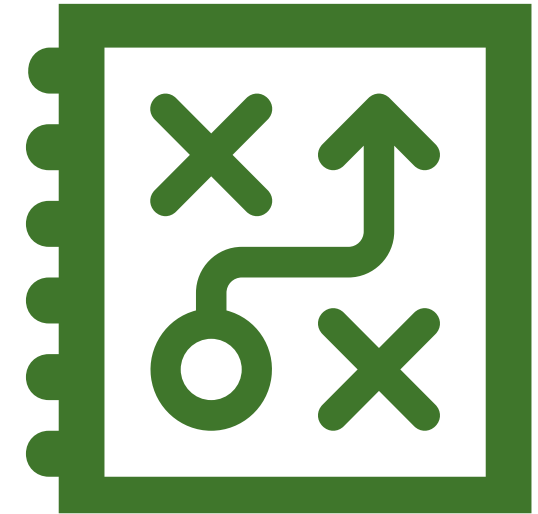
# New Mexico Climate Change Strategy & Task Force



Executive Order 2019-003 set goals, created Task Force, and directs policy priorities



Task Force composed of cabinet secretary or designate from each agency

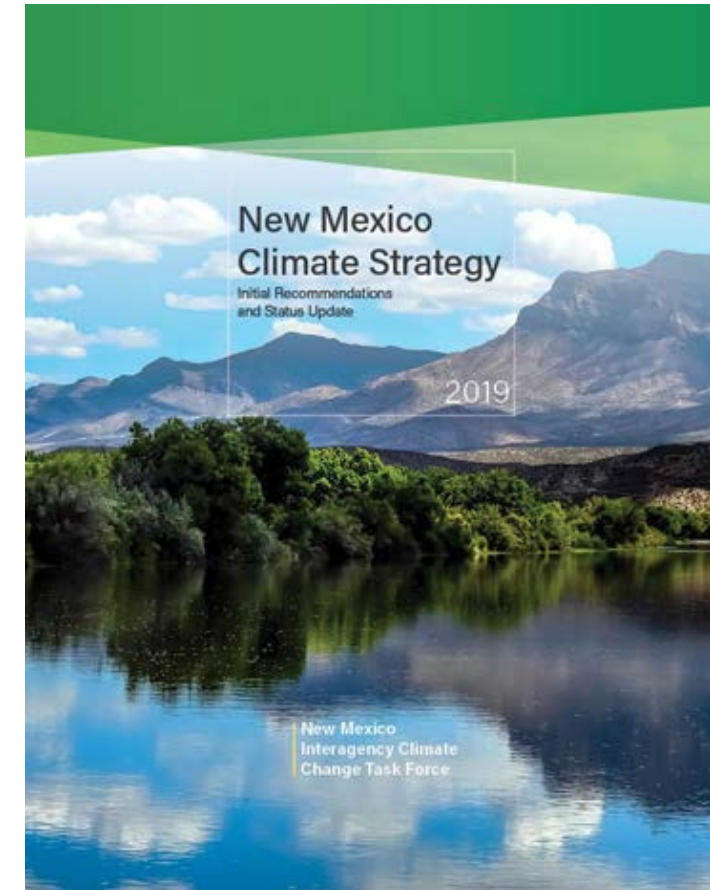


Task Force to integrate climate adaptation and mitigation practices into agency policies



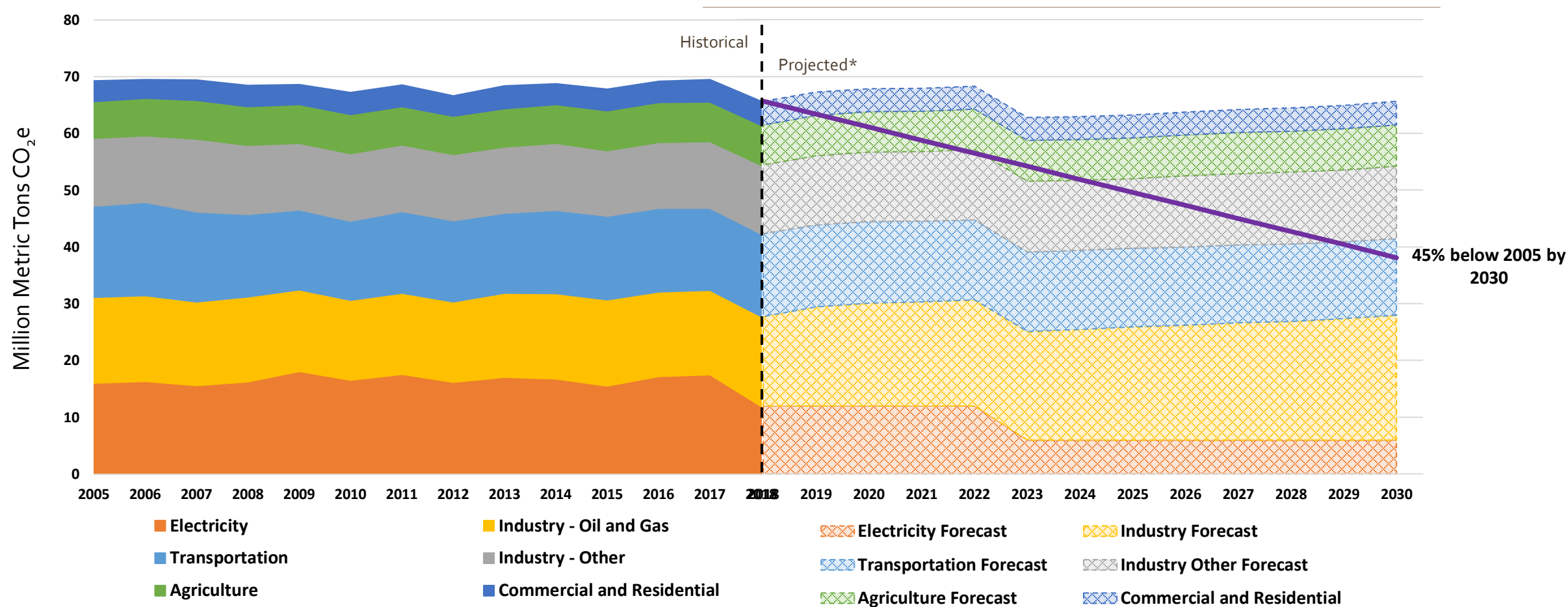
# 2019 NM Climate Strategy Report

- Initial Recommendations and Status Updates from the Climate Change Task Force, as directed by EO2019-003
- Covers emissions sources from all sectors:
  - Electricity
  - Transportation
  - Oil and Gas & Other Industrial
  - Built Environment
  - Natural and Working Lands
- Also addresses adaptation and resilience
  - Economic Transition
  - Public Health
  - Emergency Preparedness and Management
  - Water Availability



Learn more at <https://www.climateaction.state.nm.us/>

# New Mexico's GHG Emissions Trends & EO 2019-003 Goal



Electric power plant data from the EPA. All other data is from the Rhodium Group's US Climate Service database.

\*Projections do not include recently proposed and enacted policies, but assume San Juan Generating Station will retire two remaining units by 2023.



# Climate Action Teams



Clean Electricity and  
Grid Modernization



Decarbonizing  
Transportation



Climate Hub:  
Data, Outreach, &  
State Leadership



Economic  
Transition



Emergency  
Management, Health,  
and Resilience



Energy Efficiency



Methane



Natural and  
Working Lands



Sustainable  
Infrastructure  
and Planning



Cultural Heritage

**REDUCING GREENHOUSE  
GAS LEVELS**

**ADAPTATION AND  
RESILIENCE**

# Climate Action Team Goals



Improve interagency  
communication

Synthesize and compile  
ongoing planning,  
implementation, and  
stakeholder efforts across  
agencies

Identify new strategies to  
meet climate goals  
through collaboration



# Energy Efficiency

# Energy Efficiency Goals



Adopt modern, energy efficient building codes across the state



Update the Efficient Use of Energy Act to require use of total resource cost test



Increase funding for low-income energy efficiency and incorporate health measures in programs or grant offerings



Adopt new energy performance standards for state projects



Accelerate the pace and scale of upgrades



Educational campaign to change behaviors



## Goal 1: Adopt modern, energy efficient building codes across the state

- **Approach: Work with Regulations and Licensing Department to issue rules and implement new Energy Conservation Code**
  - i. Public notice of proposed rules
  - ii. Issue final rules
  - iii. Implement new Energy Code



## Goal 2: Update EUEA to account for benefits and costs outside of just utilities'

- **Approach: Provide appropriate information to decision makers**
  - i. Writing white paper on different cost test approaches
  - ii. Present findings to appropriate staff
  - iii. Encourage staff to draft legislation



## Goal 3: LMI Programs

- **Approach: Use existing resources to evaluate potential programs**
  - i. Use the FREE grant to evaluate energy efficiency policies for LMI communities
  - ii. Present findings to stakeholders
  - iii. Determine and implement priority policies
  - iv. Work with team to write legislation where needed



## Goal 4: Adopt new energy performance standards for state projects

- **Approach: Encourage a new order to be issued from the Governor**
  - i. Research other performance standards
  - ii. Write up whitepaper to show pros and cons to other performance standards
  - iii. Propose that the Governor adopt new performance standards and issue an order



## Goal 5: Accelerate the pace and scale of upgrades

- **Approach: Find mechanism for funding for smaller projects**
  - i. GIS research about smaller state/municipal buildings that might need/want upgrades but are too small for traditional EPSC project
  - ii. Research different funding mechanisms
  - iii. Work to enable these funding mechanisms in NM in conjunction with the Economic Development Department's Rural Business Efficiency grant efforts
  - iv. Work with different councils of governments and tribal governments to make sure they are aware of opportunities within their regions



## Goal 6: Educational campaign to change behaviors

- **Approach: Develop K-12 curriculum around energy efficiency**
  - i. Understand the current level of understanding around energy efficiency
  - ii. Develop curriculum and modules
  - iii. Feedback and testing
  - iv. Outreach and expand to other audiences



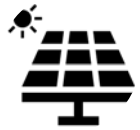
# Clean Energy and Grid Modernization



# Clean Energy and Grid Modernization Goals



Coordinate grid modernization efforts to reach zero-carbon electricity generation goals



Identify policies to reach ETA goals, while increasing access to renewable energy for low- and middle-income residents.



Provide support and outreach for PACE and C-PACE programs



Identify transmission corridors needed to transport the state's electricity to market



Study smart hybrid microgrids to accelerate the implementation of renewable technologies

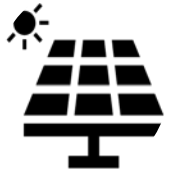


Identify funding or financing mechanisms to expand renewable energy, energy storage, and energy efficiency investments.



## Goal 1: Coordinate grid modernization efforts to reach zero carbon electricity generation goals

- **Approach: Implement the Grid Modernization Roadmap and Grant Program Act (HB233)**
  - i. Convene experts in grid technology, energy finance/economics, and energy policy to help draft Roadmap for New Mexico
  - ii. Secure funding and support grid modernization pilot projects through the grant program



## Goal 2: Identify policies to reach ETA goals, while increasing access to renewable energy for low- and middle-income residents.

- **Approach: Adapt elements of successful programs to New Mexico as possible and appropriate**
  - i. Research current level of access and barriers for LMI households to renewable energy and energy efficiency programs in New Mexico
  - ii. Research best practices/programs and successes from other states; and continue expanding our programs (e.g. PV-on-a-Pole).
  - iii. Contribute to SM63 (Community Solar) working group
  - iv. Develop partnerships with renewable energy developers and non-profit organizations working in the LMI space





## Goal 3: Provide support and outreach for PACE and C-PACE programs

- **Approach: Overcome obstacles to getting a successful PACE program off the ground in New Mexico**
  - i. Convene a group of stakeholders to understand obstacles to PACE and C-PACE and to support efforts moving forward
  - ii. Research successful PACE and C-PACE programs in other states
  - iii. Revise policies as needed to advance PACE and C-Pace programs in NM
  - iv. Conduct outreach and provide technical assistance to counties and cities



**Goal 4: Identify transmission corridors needed to transport the state's renewable electricity to market.**

- **Approach: Complete and build upon transmission research**
  - i. Conclude transmission study (RETA) and share findings through outreach
  - ii. Convene experts to investigate strategic implementation of storage technologies for advancing grid modernization



## Goal 5: Study smart hybrid microgrids to accelerate the implementation of renewable technologies

- **Approach: Convene expertise on hybrid microgrids and complete microgrid study**
  - i. Create stakeholder group to study hybrid microgrid systems and implementation
  - ii. Provide progress report on stakeholder group recommendations for strategic advancement of hybrid microgrids
  - iii. Investigate strategic implementation of hybrid microgrids for advancing grid modernization and meeting renewable development targets
  - iv. Explore with NMPRC how hybrid microgrid systems can be included in utility Integrated Resource Planning (IRP).



## Goal 6: Identify funding or financing mechanisms to expand renewable energy, energy storage, and energy efficiency investments.

- **Approach: Apply for and secure funding that can be used to support projects.**
  - i. Conduct a thorough review of available funding mechanisms and explore those that best fit different geographies and populations in New Mexico
  - ii. Develop an inventory of potential projects to be funded as opportunities arise

# Contact Us

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