

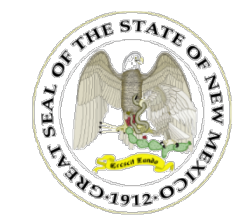
Update on the Strategic Water Supply

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LFC Water Subcommittee – September 18, 2024



50-Year Water Action Plan: New Water Supply (One of Three Priorities in the Plan)

1

ACTION B1:
ESTABLISH THE
STATE STRATEGIC
WATER SUPPLY

2

ACTION B2: WATER
REUSE RULES
AND POLICY

3

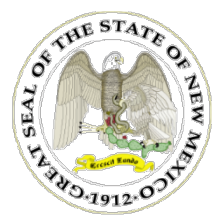
ACTION B3:
AQUIFER
MAPPING AND
MONITORING
PROGRAM

Our Targets (aka, Return on Investment)

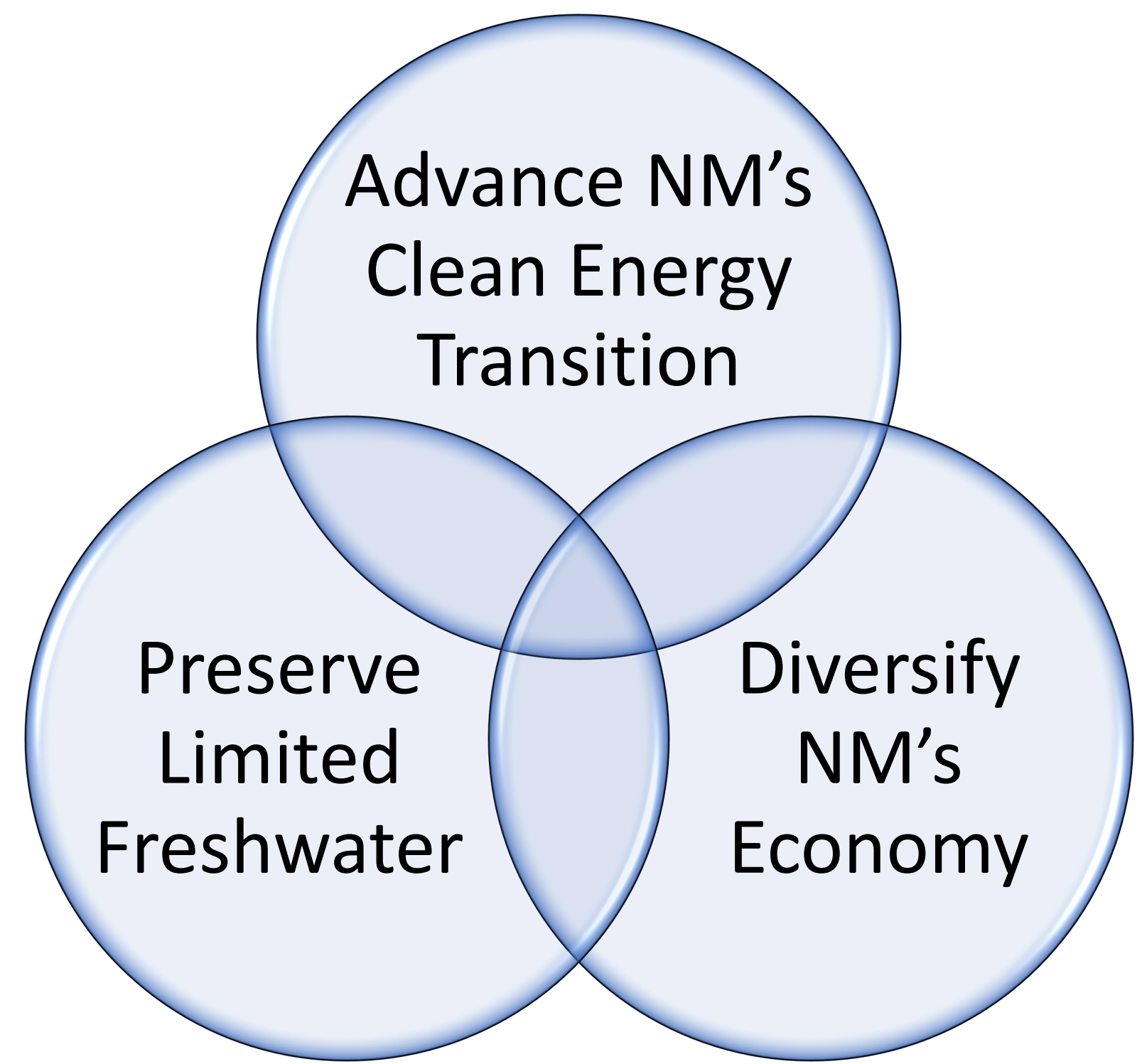
B1: By 2028, 100,000 acre-feet of new water for clean energy production, storage and manufacturing, etc.; By 2035, 50,000 acre feet of treated brackish water available for purposes above plus aquifer recharge and surface water augmentation.

B2: By 2026, regulatory frameworks for reuse are in place.

B3: By 2032, all major aquifers are characterized; By 2037, all major and minor aquifers are characterized.

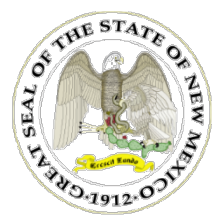


Policy Drivers for the Strategic Water Supply



The Strategic Water Supply aligns three key priorities, and it positions the State to steer new water treatment projects in conjunction with new economic development in communities across the state.

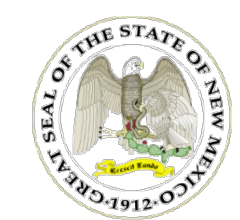
“These nonrenewable additional sources of water will greatly bolster water security by addressing near and long-term needs without increasing demand on the State’s diminishing freshwater resources.” 50YWAP



Overview of Strategic Water Supply Program

Water Sources

- Reservoirs and groundwater supplies are not recharging at a sufficient rate to ensure future water security
- Estimated over two-billion-acre feet of brackish water under New Mexico
- Nearly two billion barrels of produced water generated annually beyond what can potentially be reused in the oilfield



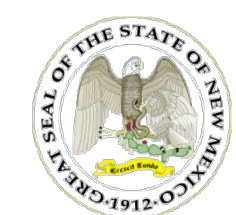
Overview of Strategic Water Supply Program

Target Sectors for Economic Development without Straining Freshwater Supplies

- Clean energy production and storage projects;
- Advanced manufacturing, such as solar panel components, wind turbines and components for zero emission vehicles and charging infrastructure; and
- Supporting laws, rules and initiatives like the Energy Transition Act, Advanced Energy Tax Credit, Advanced Clean Cars and Clean Transportation Fuels, and BIL/IRA investments.



Wind turbine blades.
Photo credit: Arcosa Technologies



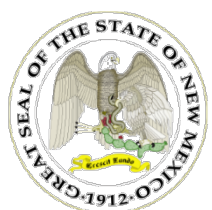
Overview of Strategic Water Supply Program

Options for Strategic Water Supply Program Structure (not mutually exclusive)

- For public sector brackish water desalination projects, fund targeted studies, planning/design, and/or construction phase to advance desalination plants in viable locations
- Use Advanced Market or Purchase Commitments (AMCs or APCs) to ensure treated brackish/produced water is available to targeted end users at a competitive price
 - AMCs and APCs provide guarantees and reduce risk for water treatment market entrants



Desalination reverse osmosis skid in Alamogordo.
Photo credit: Texas State University



Office of the Governor

MICHELLE LUJAN GRISHAM

Developing the Strategic Water Supply Program



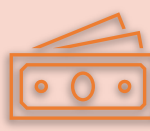
Ongoing research and scientific studies into brackish and produced water treatment and use; Evaluation of 50 responses to NMED SWS Request for Information (closed 3/31/24)



Feasibility Study to analyze technical and economic viability and inform legislation and funding request; NMED request for technical, economic and legal feedback on draft feasibility study opened September 17 (for 30 days)



Continued discussions with stakeholders, legislators and other partners, e.g., interim committees and *Strategic Water Supply: State of the Science Symposium* at NMSU on June 27



Develop legislation and associated funding request for 2025 session

Review RFI responses, draft Feasibility Study and other SWS updates at <https://www.env.nm.gov/strategic-water-supply/> or scan below.

