

Western Resource Advocates

- Federal & Regional Collaboration
- State Legislatures
- State Agencies & Commissions
- Local Governments
- Electric Utilities
- Diverse Coalitions & Communities

WRA works across seven states in the **Interior West** to **protect our climate, land, air, and water.**



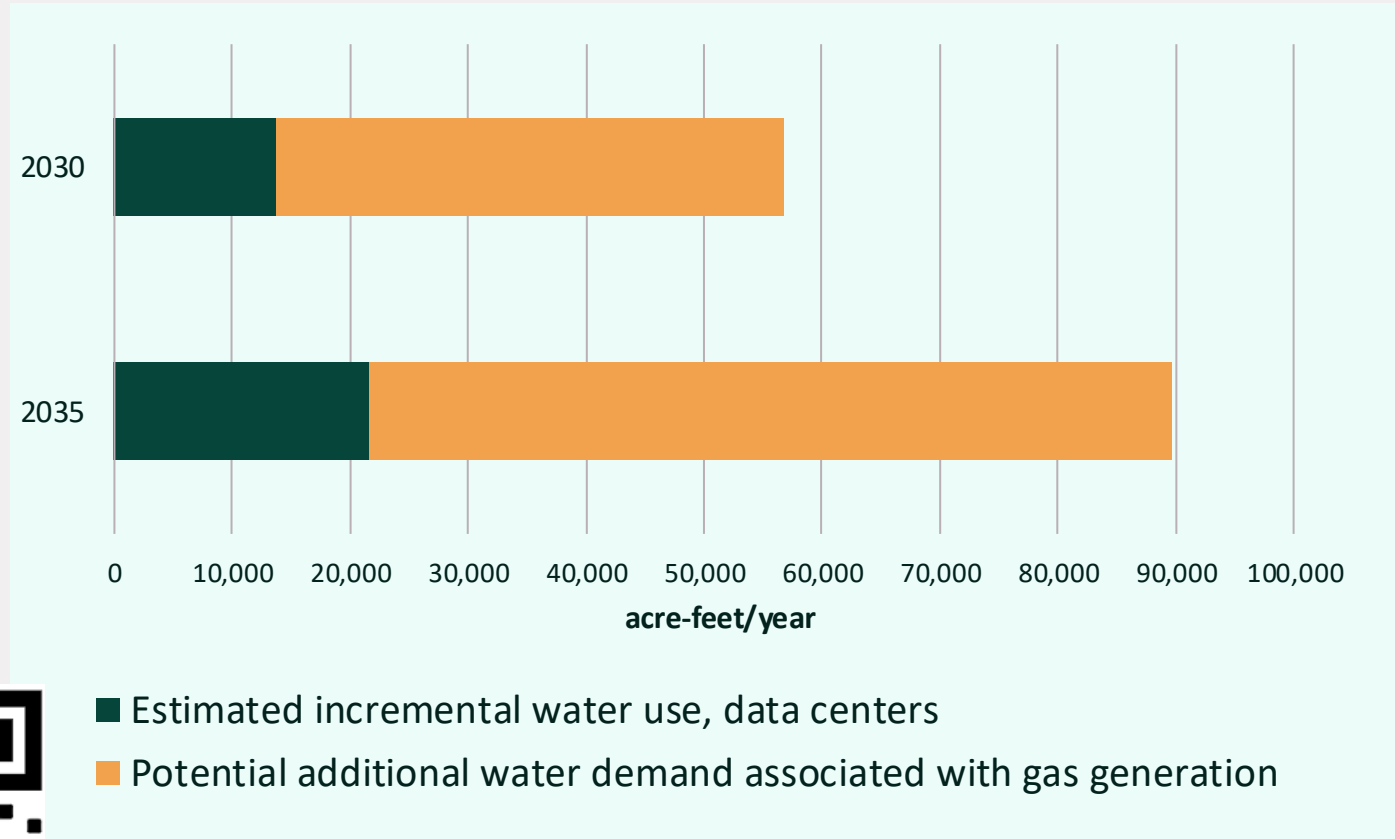


DATA CENTER IMPACTS IN THE WEST

Policy Solutions for Water and Energy Use

AUTHORS

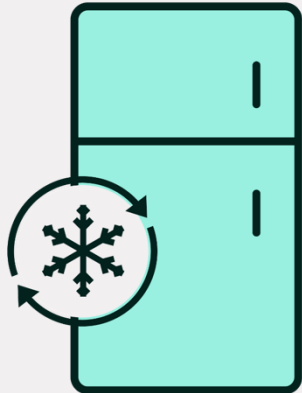
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- Estimated incremental water use, data centers
- Potential additional water demand associated with gas generation



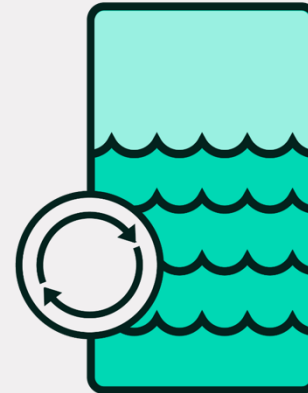
Water & Energy Tradeoffs



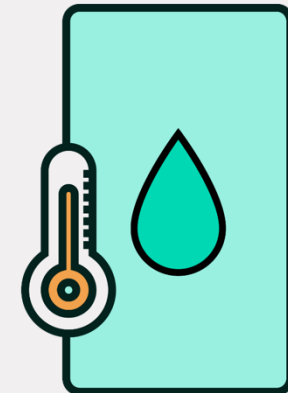
Refrigeration cooling systems use an air handler, circulate either cool air or water in the data center, and remove hot air.



Adiabatic- or direct- evaporative-cooling systems use water to cool air that is circulated in the data center.



Free-cooling systems take advantage of outdoor ambient air or water temperatures to cool the air that is circulated in a data center.



Liquid-cooling systems directly absorb heat from computer components, rather than cooling the air around the computers.