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Current and future groundwater withdrawals: effects, management and energy policy options for a semi-arid Indian watershed

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Highlights

- Integrated modeling for future groundwater withdrawal's effects on water-food nexus
- More frequent and prolonged (17-97 days/yr) well drying under business-as-usual
- >60% of dry season crops damage in future without intervention during drought years
- Interventions (energy subsidy, drip, and storage) mitigated groundwater declines
- Increased farm income (\$791-\$1,119) and reduced energy (28%) and carbon footprint

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