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Endnotes

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ENDNOTES

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- ² *Id.* (explaining the unreliability of heritage site preservation).
- ³ See id. at 1150 (explaining that historically it was not customary to protect or preserve old buildings and religious structures).
- ⁴ See id. at 1143 (indicating that interest in preserving heritage sites is a newer idea); see also Loez Velpaus, Ana Pereira Roders & Johann J Swart, Assessing Amsterdam's Heritage Management Framework (IAIA13 Conference Proceedings: Impact Assessment the Next Generation, 2013) 1, https://www.researchgate.net/publication/260124393_Assessing_Amsterdam's_heritage_management_framework (explaining the difficulties in balancing conservation of World Heritage sites within a continuously changing urban context).
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- 6 See id. at 1152-53 (explaining the people's desire to move away from many values held before the revolution and interest in using items from that time to fund new government entities).
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- 51 Id. at 19,886.
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- 68 See Luke Runyon, Lake Powell—Nation's Second-Largest Reservoir—Hits Record Low, KPBS (July 27, 2021, 3:00 AM), https://www.kpbs.org/news/2021/jul/27/lake-powell-largest-reservoir-record-low/ ("None of the Upper Basin states has committed to fully implementing a plan to rein in demands on the river's water in order to fill Lake Powell with conserved water. The plan remains in an investigatory phase.").
- ⁶⁹ See Lawrence J. MacDonnell & Anne J. Castle, Univ. of Colo. L. Sch., Shepherding Appropriated Water Within Colorado and to Lake Powell for Colorado River Compact Security 2 (2017), https://www.getches-wilkinson-center.cu.law/wp-content/uploads/2018/02/Shepherding-white-paper-8-29-17. pdf ("Water shepherding... refers to the delivery of a specified volume of conserved consumptive use water from its original place of storage or use to a downstream location without diminishment by other users.").
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Account of the Land of Utah With Maps 12–13 (1879), https://pubs.usgs.gov/unnumbered/70039240/report.pdf.

- ⁷⁵ Utah Code Ann. § 73-3-1 (West 2021).
- ⁷⁶ Utah Code Ann. § 73-3-1(5)(a) (West 2021) ("Between appropriators, the one first in time is first in rights.").
- ⁷⁷ *Id.* § 73-1-3 (West 2021) ("Beneficial use shall be the basis, the measure and the limit of all rights to the use of water in this state.").
- ⁷⁸ See generally Janet C. Neuman, Beneficial Use, Waste, and Forfeiture: The Inefficient Search for Efficiency in Western Water Use, 28 Envil. L. 919, 961 (1998) ("[A]s to existing [water] users, [administrative water] agencies play a largely passive role. They do not seek out wasteful practices for active enforcement. Occasionally, particularly egregious practices may be routed out, such as continually running sprinklers over roads or refusing to install floatmeters to insure pump shut-off when a certain amount of water has been diverted. However, these practices usually come to an agency's attention by way of complaint rather than through their own investigations. Agencies simply do not actively seek to define and enforce against waste or inefficient water use.").
- ⁷⁹ Utah Admin. Code r.655-16-5 (LexisNexis 2021).
- ⁸⁰ *Id*.
- Utah Code Ann. § 73-3-3(3) ("A person entitled to the use of water may make a change to an existing right to use water" if certain conditions are met). The State Engineer directs the Utah Division of Water Rights, a state agency which administers the use and allocation of the state's water resources.
- 82 See id. ("A person entitled to the use of water may make a change to an existing right to use water [if]... the state engineer approves the change application, consistent with Section 73-3-8."); See Utah Code Ann. § 73-3-8 ("It shall be the duty of the state engineer to approve an application if there is reason to believe that... the proposed use will not impair existing rights or interfere with the more beneficial use of the water.").
- 83 Id. § 73-1-4(2)(a) ("[W]hen an appropriator or the appropriator's successor in interest abandons or ceases to beneficially use all or a portion of a water right for a period of at least seven years, the water right or the unused portion of that water right is subject to forfeiture. . . "). Additionally, water rights holders can forfeit portions of their appropriative rights. Delta Canal Co. v. Frank Vincent Family Ranch, LC, 2013 UT 69 ¶ 28 ("We hold that the only plausible reading of the Forfeiture Statute, when viewed in conjunction with the Beneficial Use Statute, is that a water right may be forfeited either in whole or in part.").
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- 87 373 U.S. 546 (1963).
- ⁸⁸ Arizona v. California, 547 U.S. 150, 156 (2006) (consolidated decree) (emphasis added) (excluding reserved rights holders along the Lower Colorado River from the Section 5 contract requirement).
- ⁸⁹ 373 U.S. 546, 586 (1963) ("[I]t is the [Boulder Canyon Project] Act and the Secretary's contracts, not the law of prior appropriation, that control the apportionment of [Colorado River mainstem] water among the [Lower Basin] States. Moreover . . . we hold that the Secretary in choosing between users within each State and in settling the terms of his contracts is not bound by these sections to follow state law.").
- ⁹⁰ See generally Reed D. Benson, Whose Water is it? Private Rights and Public Authority Over Reclamation Project Water, 16 VA. Envt'l L.J. 363, 397–98 (1997) ("[U]sers without [Reclamation] contracts have no right to receive project water, even if they have actually applied project water to a beneficial use [Additionally], users must comply with contract terms or risk losing their rights to receive project water.").
- ⁹¹ See U.S. Bureau of Reclamation, Utah Water Right, 1958, No. 41-2963, Application No. A30414, https://www.waterrights.utah.gov/asp_apps/DOCDB/DocImageToPDF.asp?file=/docSys/v408/c408/C408027J.TIF.; U.S. Bureau of Reclamation, Utah Water Right, No. 41-3479, Application No. A30414d, https://www.waterrights.utah.gov/asp_apps/wrprint/wrPrintAction.asp?wrnum=41-3479&action=print_report&print=wr (Reclamation, in following the Reclamation Act of 1902, obtained rights to store water in the Reservoir from the State of Utah in 1958 pursuant to state law prior appropriation. From this initial appropriation, Reclamation has segregated numerous portions of the 1958 water right to various water rights holders throughout the state); see also, One notable segregation of Water Right No. 41-2963 includes the State of Utah Board of Water Resources, Utah Water Right No. 41-3479

- (316,029.936 acre-feet annually). In essence, water rights segregated by Reclamation, while transferred to entities and water users in Utah and subject to Water Use Contracts with Reclamation, remain appropriative in nature and remain subject to state water law.)
- ⁹² See Benson, supra note 90, at 411 (1997) ("The Bureau's primary authority over project water is based not on what the government owns, but on what it gives. Every reclamation project provides a federal benefit—publicly subsidized water—to certain users. In return, the United States has the power to attach conditions to delivery of that benefit. Users must accept those conditions if they want to receive project water.") (citing Ivanhoe Irrigation Dist. v. McCracken, 357 U.S. 275 294-95 (1958)).
- from beneficial use requirements pursuant to Subsection 73-1-4 (2)(e)(xi)."). (One notable distinction must be made with respect to a Utah ICS Program and the storage of water rights and the beneficial use tenet in Utah. Under the Water Banking Act in Utah, water rights that are stored for a future beneficial use are not subject to forfeiture under state law); Utah Code Ann. §73-34-105 (Under the Water Banking Act, "only a water bank approved under this chapter may avail itself of the statutory provisions that apply to a water bank."); Utah Code Ann. § 73-31-104. (It is unlikely that a Utah ICS Program would be approved as a water bank under the Water Banking Act, as the outlined objectives of a water bank under the Water Banking Act do not include water storage for Compact compliance. Since a Utah ICS Program would likely not be an approved water bank under the Utah Water Banking Act, the storage of water rights pursuant to a Utah ICS Program could still be subject to state law forfeiture claims.)
- 94 Utah Code Ann. §§ 73-1-4(2)(e)(xi), 73-31-501(3).
- 95 See discussion infra Section IV.B.4.b.
- ⁹⁶ Utah Code Ann. § 73-1-4(2)(e)(v); *id.* §§ 73-3b
- ⁹⁷ See Utah Code Ann. § 73-3-8(1)(a)(ii) ("It shall be the duty of the state engineer to approve an application if there is reason to believe that . . . the proposed use will not impair existing rights").
- 98 See discussion infra Section IV.B.4.c.
- 99 See discussion infra Section IV.B.4.b. on ICS alienability in a Utah ICS program.
- 100 Utah Code Ann. § 73-31-501(3).
- 101 Colorado River Storage Project Act § 1, ch. 203, 70 Stat. 105 (1956) (codified at 43 U.S.C. § 620).
- Mission & Vision, Colo. RIVER AUTH. UTAH, https://cra-utah.org/about/mission-vision (last visited Mar. 27, 2022).
- 103 Conservation, Colo. RIVER AUTH. UTAH, https://cra-utah.org/conservation (last visited Mar. 27, 2022).
- ¹⁰⁴ See Anne J. Castle, Drought Contingency Planning in the Colorado River Basin, 66 Rocky Mt. Min. L. Found. Ann. Inst. § 6.05(2)(b) (2020) ("Below elevation 3,490 feet, no hydropower can be produced and the only mechanism available for releasing water out of Lake Powell is the 'river outlets' at the bottom of the dam.").
- Brian Maffly, Extreme Actions Underway to Ensure Glen Canyon Dam Can Continue to Generate Power, SALT LAKE TRIB. (July 20, 2021, 3:56 PM), https://www.sltrib.com/news/environment/2021/07/19/feds-release-water-down/.
- I^{06} I_{0}
- $^{107}\;$ See, e.g., Dennis Kubly, The Glen Canyon Dam Adaptive Management Program, 11 Water Resources IMPACT 11, 11-12 (2009), https://www. jstor.org/stable/10.2307/wateresoimpa.11.3.0011 ("The GCDAMP is funded primarily from hydropower revenues that are deposited in the Colorado River Basin Storage Project Basin Fund and managed by Western Area Power Administration. The Bureau of Reclamation is the managing agency of the GCDAMP and administers the hydropower revenues expended by the program. In 2009, the GCDAMP budget contained just under \$10 million of hydropower funding . . . "); Glen Canyon Unit, U.S. BUREAU OF RECLAMATION, https:// www.usbr.gov/uc/rm/crsp/gc/ (last visited March 27, 2022) ("Glen Canyon Powerplant produces around five billion kilowatt-hours of hydroelectric power annually which is distributed by the Western Area Power Administration to Wyoming, Utah, Colorado, New Mexico, Arizona, Nevada, and Nebraska. In addition, revenues from production of hydropower help fund many important environmental programs associated with Glen and Grand canyons."). See also Maffly, supra note 106 ("Here we are now in 2021, and the basic underlying assumptions that we've been able to rely on are beginning to erode and we can't count on the hydrology. And when we can't count on the hydrology we can't count on the hydropower and hydropower revenues ").

- ¹⁰⁸ *See* 2007 Interim Guidelines, *supra* note 46, at 19,887–88.
- Lower Basin DCP Exhibit 1, supra note 64, at § IV.E.1.
- ¹¹⁰ See Offstream Storage of Colorado River Water and Development and Release of Intentionally Created Unused Apportionment in the Lower Division States, 43 C.F.R. §§ 414.1–414.6 (2016) (explaining the definitions and requirements for authorized entities and interstate release agreements); see also Robison, supra note 20, at 544–45 (detailing the Lower Basin water banking program).
- ELAN EBELING, ET AL., WATER BANKING AND WATER MARKETING IN SELECT
 WESTERN STATES 15 (2019), https://appswr.ecology.wa.gov/docs/WaterRights/wrwebpdf/WaterBankingandWaterMarketinginSelectWesternStates.pdf.
 Id.
- See, e.g., Western Governors Assoc., Water Transfers in the West:
 Projects, Trends, and Leading Practices in Voluntary Water Trading
 23–26 (2012), https://www.circleofblue.org/wp-content/uploads/2012/12/
 Western-Governors_Water-Transfers-in-the-West-2012.pdf (analyzing the various impacts of water marketing); See generally Jesse Reiblich & Christine
 A. Klein, Climate Change and Water Transfers, 41 Pepp. L. Rev. 439, 469–76 (2014) (detailing some of the positives and negatives of water marketing).
 Utah Code Ann. § 73-3-8(1)(a), (1)(b), (c).
- 115 Sandra Zellmer, Collaboration and the Colorado River: The Anti-Speculation Doctrine and Its Implications for Collaborative Water Management, 8 Nev. L. J. 994, 997 (2008) ("The law of all western states prohibits speculation, either explicitly or through requirements that water be applied continuously to actual, beneficial use."); id. ("Speculation is the act of acquiring a resource for the purpose of subsequent use or resale, in hopes of profiting from future price fluctuations."); Utah Code Ann. § 73-3-8(1)(a)(v) (stating that the State Engineer may only approve a water right application "if there is reason to believe that [among other things]. . . the application was filed in good faith and not for purposes of speculation or monopoly."); see also Frailey v. McGarry, 116 Utah 504, 516 (1949) ("It is equally clear that speculation in the public waters of this state is against the best interests of its people. Although the legislature has given formal expression to this principle, the principle would be equally true in the absence of statute."); Eardley v. Terry, 94 Utah 369, 381 (1938) (Wolfe, J., concurring) (an applicant for a water right "cannot file on it and sit idly by waiting for it to become more valuable. Speculation in water rights is sought to be avoided.").
- See, e.g., Utah Code Ann. § 73-31-501(3) ("A banked water right is excused from beneficial use requirements pursuant to Subsection 73-1-4 (2)(e)(xi).").
 See discussion supra Section IV.B.4.b. Alienability of ICS would be done through temporarily leasing the right to use a set amount of ICS to a third party.
 See Utah Code Ann. § 73-3-3(4)(b).
- 119 Utah Code Ann. § 73-3-8(1)(a), 1(b), (c) ("If the state engineer, because of information in the state engineer's possession obtained either by the state engineer's own investigation or otherwise, has reason to believe that an application will interfere with the water's more beneficial use... or will unreasonably affect public recreation or the natural stream environment, or will prove detrimental to the public welfare, the state engineer shall withhold approval or rejection of the application until the state engineer has investigated the matter. If an application does not meet the requirements of this section, it shall be rejected.").
- 120 See, e.g., OREGON WATER RESOURCES DEP'T, WATER RIGHTS IN OREGON: AN INTRODUCTION TO OREGON'S WATER LAWS 18 (2018), https://www.oregon.gov/owrd/WRDPublications1/aquabook.pdf ("When [water right] applicants seek to use stored water only, the application will receive an expedited review leading directly to a final order, unless public interest issues are identified following the public notice of filing. If such issues are raised adequately, the application will undergo the standard review process to allow thorough public participation."); id. at 31 ("Upon the Governor's issuance of an Executive Order declaring a drought emergency, the Department is allowed to offer certain tools to water right holders in a drought declared County. These tools have an expedited review process, reduced fee schedule, and are intended to be short-term emergency authorizations."); WASH. DEP'T ECOLOGY, WASHINGTON STATE DROUGHT CONTINGENCY PLAN 45—46 (2018), https://apps.ecology. wa.gov/publications/documents/1811005.pdf ("Under an emergency drought

- declaration, [the Washington Department of] Ecology is authorized to issue emergency drought permits to water right holders if their water supply is likely to be below 75 percent of normal and they are at risk of experiencing hardship Applicants might request an alternate point of groundwater withdrawal or surface water diversion to compensate for loss of surface water supply, or temporary transfers of a water right to another user.").
- 121 See Water Rights, Utah Dep't of Natural Resources, https://naturalresources.utah.gov/water-rights (last visited May 3, 2021) ("Once a use is authorized, the [State Engineer] monitors development to assure the use actually occurs before a permanent or perfected water right certificate is issued."). ¹²² See Lower Basin DCP Exhibit 1, supra note 64, at IV(C). Although the Lower Basin ICS Program does cap the creation of ICS, the Lower Basin states and Reclamation agreed to increase those creation limitations in the 2019 Lower Basin DCP. See U.S. DEP'T OF INTERIOR, BUREAU OF RECLAMA-TION, REVIEW OF THE COLORADO RIVER INTERIM GUIDELINES FOR LOWER BASIN SHORTAGES AND COORDINATED OPERATIONS FOR LAKE POWELL AND LAKE MEAD 34 (2020), https://www.usbr.gov/ColoradoRiverBasin/documents/7.D.Review FinalReport 12-18-2020.pdf ("Reclamation and Contractors recognized that the role of ICS in preventing Lake Mead's decline to critical elevations was becoming increasingly important, and that the creation and accumulation limits set forth in the [Interim] Guidelines disincentivized Contractors from creating additional voluntary conservation to improve reservoir conditions. In response, the [Lower Basin] DCP incorporated greater annual flexibility and a higher accumulation limit.").
- 123 One concern with placing no limit on the creation and storage of ICS water in the Reservoir pertains to the Reservoir's more modest storage capacity when compared to Lake Mead. In theory, enough ICS could be stored in the Reservoir to reach its maximum storage capacity, requiring releases from the Reservoir to maintain proper storage levels. While this may be a possibility, it is highly unlikely that Utah water user participation in an intrastate ICS program alone would fill the Reservoir to the brim anytime in the near future. However, a Utah ICS program could include provisions anticipating a time when maxing out the Reservoir could become a reality by triggering ICS creation and storage caps once the Reservoir reaches a certain set level of storage. In all, at this initial stage, a Utah ICS program should prioritize ICS creation and storage to conserve system water and ensure Compact compliance about the theoretical possibility of reaching the Reservoir's more modest maximum storage capacity.
- See discussion supra Section IV.B.4.b.
- ¹²⁵ See Utah Code Ann. § 73-3-8(1)(a)(ii) ("It shall be the duty of the state engineer to approve an application if there is reason to believe that . . . the proposed use will not impair existing rights. . . .").
- While different metrics could be used to determine adequate levels of Colorado River system water to allow for ICS deliveries, the State of Utah and Reclamation should consider tying ICS delivery timing with the projected level of stored water in Lake Powell.
- Lower Basin DCP Exhibit 1, supra note 64, at III.D.3.
- UPPER BASIN INITIAL UNIT OPERATIONS AGREEMENT, *supra* note 63, at A.2.
- ¹²⁹ Given that the released ICS water would seemingly constitute a taking of the entire property right to use the released ICS, the owners of the released ICS may be entitled to just compensation pursuant to Takings Clause jurisprudence. *See, e.g.*, A. Dan Tarlock, Takings, Water Rights, and Climate Change, 36 Vr. L. Rev. 731, 748–56 (2012).
- 130 See UPPER BASIN INITIAL UNIT OPERATIONS AGREEMENT, supra note 63 (If ICS water were released by Reclamation to augment water storage in Lake Powell, those Utah water rights holders who created and stored the released ICS water would likely be due compensation under the Fifth Amendment takings clause); see generally Douglas L. Grant, ESA Reductions in Reclamation Water Contract Deliveries: A Fifth Amendment Taking of Property?, 36 ENVIL. L. 1331 (2006); James L. Huffman, Hertha L. Lund & Christopher T. Scoones, Constitutional Protections of Property Interests in Western Water, 41 Pub. Land & Resources L. Rev. 27 (2019).
- 131 James Eklund, Saving the Colorado River: How Demand Management Can Save the Colorado River, 206 WATER REPORT 6-7 (2021).

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electricity in 2020 but is projected to be 20% by 2050 with no change to current laws and regulations. The EIA projects that total electricity generation from renewables will double by 2050).

- Springer, supra note 4, at 14-15.
- ⁸ *Id.* at 3 (Along with their competitive costs, renewables have the potential to provide thousands of jobs, contribute billions in capital investments, and reduce dependency on dirty fossil fuels and foreign oil.).
- Patrick Devine-Wright, Rethinking NIMBYism: The Role of Place Attachment and Place Identity in Explaining Place-protective Action, 19 J. of CMTY.
 & APPLIED Soc. PSYCH. 426-441 (Jan. 5, 2009) (explaining that NIMBYism is an acronym describing the concept of "Not In My Backyard," and is commonly used to explain public opposition to new development near homes and communities, particularly arising from energy technologies such as wind farms or electricity pylons).
- significant adverse impacts on species habitats and can interfere with open space and wilderness values. Moreover, large-scale offshore wind farms require construction of transmission lines in state tidal and navigable waters protected by the public trust doctrine or in federal territorial seas subject to federal environmental protection mandates. Alexandra B. Klass, *Renewable Energy and the Public Trust Doctrine*, 45 U.C. Davis L. Rev. 1021 (2012); *see also* Miller, C.A., Richter, J. Social Planning for Energy Transitions, *Curr Sustainable Renewable Energy Rep* 1, 77–84 (2014). https://doi.org/10.1007/s40518-014-0010-9; Nathaniel Logar, *When the Fast Track Hits the off Ramp: Renewable Energy Permitting and Legal Resistance on Western Public Lands*, 27 Colo. Nat. Resources Energy Envil L. Rev. 361 (2016).
- ¹¹ Exec. Order No. 14008, 86 Fed. Reg. 7619, 7624 (Jan. 27, 2021) (asserting goal of doubling offshore wind by 2030); *Executive Order on Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability*, White House Briefing Room (Dec. 8, 2021), https://www.whitehouse.gov/briefing-room/presidential-actions/2021/12/08/executive-order-on-catalyzing-clean-energy-industries-and-jobs-through-federal-sustainability/ (discussing President Biden's Executive Order to make the federal government carbon-neutral by 2050).
- ¹² See A vision for responsible renewable energy on public lands, WILDERNESS SOC.: BLOG (Apr. 28, 2021), https://www.wilderness.org/articles/blog/vision-responsible-renewable-energy-public-lands# (Congress passed the Energy Act of 2020, which set a target of permitting 25 gigawatts of renewable energy on public lands by 2025—a threefold increase in the projects approved to date and enough to power over 10 million homes.).
- Alexandra B. Klass, Renewable Energy and the Public Trust Doctrine, 45 U.C. Davis L. Rev. 1023, 1040 (2012).
- 14 George C Coggins et al., Federal Public Lands and Resources Law 418 (7th ed. 2014)[hereinafter Coggins].
- ¹⁵ *Id*.
- See e.g., The Federal Land Management Agencies, Cong. Rsch. Serv. (Feb. 16, 2021) ("NPS law, regulations, and policies emphasize the conservation of park resources in conservation/use conflicts, and the systems lands and resources generally receive a higher level of protection than those of BLM and FS.")

- ¹⁷ See 16 U.S.C. § 531(a).
- ¹⁸ Coggins, *supra* note 14, at 416 (FLPMA, for example, is the organic legislation that forms the basis of how BLM operates).
- 19 Current organic legislation requires that each major public land system implement and adhere to "comprehensive planning," or comprehensive unit-level plans that contain certain elements. George Coggins et al., Federal Public Land and Resources Law 420 (Foundation Press, 7th ed. 2014) (asserting unit-level plans must contain several elements: (1) consideration of permitted uses; (2) public participation; (3) interdisciplinary analysis; (4) consideration of applicable overlapping state/local plans; and (5) zoning maps defining which regions are slated for more intensive development, protective proscriptions, or visitor facilities).
- ²⁰ 36 C.F.R. § 219.8 (defining connectivity, in part, as ecological conditions facilitating range shifts in response to climate change).
- 21 Id.; see also, Coggins, supra note 14, at 420.
- ²² 43 U.S.C. § 1732(b).
- ²³ Coggins, *supra* note 14, at 419.
- 24 See id.
- ²⁵ Coggins, *supra* note 14, at 12.
- ²⁶ Id.
- ²⁷ 43 U.S.C. § 1702(c).
- ²⁸ See Solar Wind and Energy Rule, 43 C.F.R. § 2800 (2016) (establishing a purpose of facilitating responsible solar and wind energy development on BLM-managed lands); see also 81 Fed. Reg. 92,122 (Dec. 19, 2016).
- ²⁹ See Springer, supra note 4, at 11-13 (BLM codified this program for solar and wind in the 2016 Solar and Wind Energy Rule).
- 30 *Id.* at 11
- ³¹ *Id.* at 12-13.
- ³² *Id*.
- Coggins, supra note 14, at 614.
- 34 /
- ³⁵ Expanding Clean Energy on Public Lands: Hearing on H.R. 3326, the Public Land Renewable Energy Development Act Before the H. Subcomm. on Energy and Mineral Res., 117TH CONG. (2021) (statement of Nada Wolff Culver, Deputy Dir., Bureau of Land Mgmt.) (mentioning BLM's short-list of programmatic actions to facilitate RE development on BLM lands, including updating the Solar Energy Zones and West-wind Energy Corridors, without mentioning geothermal-specific designated priority areas).
- ³⁶ GeoVision: Harnessing the Heat Beneath Our Feet, U.S. DEP'T OF ENERGY (2019), https://www.energy.gov/eere/geothermal/downloads/geovision-harnessing-heat-beneath-our-feet (concluding that geothermal energy could support about 8.5% of the total national electricity demand by 2050, compared to the 0.4% of total generation it provides today).
- ³⁷ Jenkins, *supra* note 5 (Section 390 of the Energy Policy Act of 2005 created a categorical exclusion for drilling small wells ["unconventional" wells that use advanced extraction such as directional drilling and fracking] on public lands. Advanced geothermal wells are drilled with the same equipment, workforce, and surface footprint as oil and gas wells; they're just drilling for heat instead of oil.).

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- ²⁴ *Id*.
- 25 See id.
- See Chris Edwards, Entrepreneurs and Regulations: Removing State and Local Barriers to New Businesses, Cato Institute (May 5, 2021), https://www.cato.org/policy-analysis/entrepreneurs-regulations-removing-state-local-barriers-new-businesses#.
 See generally id.
- ²⁸ See generally The Associated Press, Earth given 50-50 chance of hitting key warming mark by 2026, NBC (May 10, 2022) https://www.nbcnews.com/science/environment/earth-50-50-chance-hitting-key-warming-mark-2026-rcna28060.
- ²⁹ The White House, *The Child Tax Credit*, https://www.whitehouse.gov/child-tax-credit/ (last visited Mar. 31, 2022).

- 30 See id.
- 31 See The White House; Lynn Mucenski Keck, *The Build Back Better Plan Is Stalling: What's The Issue?*, Forbes (Jan. 10, 2022) https://www.forbes.com/sites/lynnmucenskikeck/2022/01/10/the-build-back-better-plan-is-stalling-whats-the-issue/?sh=7511eb4c7378.

 32 See generally Alexander Bolton, *Democrats Frustrated with Latest Manchin Pitch on Build Back Better*, The Hill (Mar. 4, 2022, 6:00 AM), https://thehill.com/homenews/senate/596822-democrats-frustrated-with-latest-manchin-pitch-on-build-back-better.
- 33 See generally id.
- 34 See generally id.





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