

**Comments of the Attorneys General of New York, Washington, California,  
Connecticut, District of Columbia, Illinois, Maine, Maryland,  
Massachusetts, Michigan, Minnesota, New Jersey, Oregon, Pennsylvania,  
Rhode Island, Vermont, and Wisconsin, the City of New York, and Harris  
County, Texas**

April 10, 2023

***Via electronic submission to [www.regulations.gov](http://www.regulations.gov)***  
**ATTN: Council on Environmental Quality, Docket ID No. CEQ-2022-0005**

Jomar Maldonado  
Director for the National Environmental Policy Act  
Council on Environmental Quality  
730 Jackson Place, NW  
Washington, DC 20503

**Re: Council on Environmental Quality’s Interim “National  
Environmental Policy Act Guidance on Consideration of  
Greenhouse Gas Emissions and Climate Change,”  
88 Fed. Reg. 1196 (Jan. 9, 2023), Docket No. CEQ-2022-0005**

Dear Mr. Maldonado:

The undersigned State Attorneys General of New York, Washington, California, Connecticut, District of Columbia, Illinois, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Jersey, Oregon, Pennsylvania, Rhode Island, Vermont, and Wisconsin, the City of New York, and Harris County, Texas (States) respectfully submit these comments on the Council on Environmental Quality’s Interim “National Environmental Policy Act Guidance on Consideration of Greenhouse Gas Emissions and Climate Change” (Guidance).<sup>1</sup>

**I. Executive Summary**

Although greenhouse gas emissions are a global phenomenon, they cause direct, indirect and cumulative impacts that have local, and often catastrophic, impacts on our States, our residents, and our environment and natural resources. The States have strong interests in robust NEPA reviews that accurately assess greenhouse gas emissions and climate change impacts, particularly where they affect state and local laws, plans and policies that have been adopted to reduce emissions

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<sup>1</sup> 88 Fed. Reg. 1196 (Jan. 9, 2023), Docket No. CEQ-2022-0005.

and address climate change impacts. We support the significant improvements and progress CEQ has made in this Guidance and offer several key recommendations for further strengthening it.

At a high level, the States recommend that CEQ strengthen the Guidance by: (i) clarifying the legal requirements for review, (ii) better coordinating federal actions with adopted state, Tribal and local laws and plans, and (iii) addressing environmental justice impacts from greenhouse gas emissions and climate change. More specifically, we recommend that the Guidance state that federal agencies should consider reasonable alternatives to their proposed actions wherever possible to be more consistent with state, Tribal and local measures designed to address climate change. We support analysis of all reasonably foreseeable direct, indirect and cumulative greenhouse gas emissions and also recommend that CEQ provide examples and additional tools to assist agencies in such quantification and assessment. The States applaud the Guidance's discussion of environmental justice concerns and urge CEQ to further strengthen its recommendations to prioritize the voices of overburdened communities and place them at the center of these analyses.

## **II. The States Have Strong Interests in Ensuring Federal Agencies Comply with NEPA's Mandate to Make Informed Decisions Based on a Robust Review of Environmental Impacts, Including Greenhouse Gas Emissions and Climate Change.**

### **a. NEPA Requires Consideration of Greenhouse Gas Emissions and Climate Change Impacts and State Efforts to Reduce Them.**

The National Environmental Policy Act, 42 U.S.C. § 4321 et seq. (NEPA) directs federal agencies to implement the statute “to the fullest extent possible” and to conduct a detailed environmental review for “major Federal actions significantly affecting the quality of the human environment.”<sup>2</sup> That review should analyze an action's environmental impacts, alternatives to the proposed action, the relationship between short-term uses and long-term productivity, and any irreversible and irretrievable commitment of resources.<sup>3</sup> Consistent with this statutory mandate, the Guidance recognizes that federal agencies must identify, analyze and consider alternatives and mitigation measures for the reasonably foreseeable direct, indirect, and cumulative effects of all major federal actions.<sup>4</sup>

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<sup>2</sup> 42 U.S.C. § 4332.

<sup>3</sup> *Id.* §§ 4331(a), 4321, & 4332(F) (NEPA intended to “recognize the worldwide and long-range character of environmental problems.”).

<sup>4</sup> 88 Fed. Reg. at 1197; *id.* at 1197 n. 5.

Such analysis should prioritize the voices of affected communities and thoroughly analyze and disclose the environmental justice concerns presented by an action's greenhouse gas emissions and climate impacts.<sup>5</sup> NEPA further directs agencies to "identify and develop methods and procedures" to ensure appropriate consideration of "presently unquantified environmental amenities."<sup>6</sup> Accordingly, as the Guidance correctly states, NEPA requires federal agencies to consider climate change impacts both from and to a proposed action as well as the impacts on affected communities. Agencies' consideration should include assessing reasonably foreseeable greenhouse gas emissions and climate change impacts, whether quantifiable or not.<sup>7</sup>

NEPA further requires federal agencies to act "in cooperation with State and local governments," to evaluate potential environmental impacts in fulfillment of NEPA's purposes.<sup>8</sup> CEQ's regulations authorize federal agencies "to cooperate with State, Tribal, and local agencies that are responsible for preparing environmental documents, including those prepared pursuant to section 102(2)(D) of NEPA,"<sup>9</sup> and direct federal agencies preparing Environmental Impact Statements (EISs) to assess a proposed action's consistency "with any approved State, Tribal, or local plan or law."<sup>10</sup> With respect to greenhouse gas emissions and climate change, NEPA thus directs federal agencies to consider and account for state, Tribal, and local efforts to reduce emissions, combat the climate crisis, and advance environmental justice.

b. State and Local Governments Have Strong Interests in Robust Review of Greenhouse Gas Emissions and Climate Change.

The States are critical stakeholders in NEPA reviews, particularly for proposed federal actions that may increase the emissions of greenhouse gases and impacts of climate change in our States. Cooperation with state, Tribal, and local governments

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<sup>5</sup> See 42 U.S.C. §§ 4331(a), 4332(2).

<sup>6</sup> *Id.* § 4332(2)(B).

<sup>7</sup> *Ctr. for Biological Diversity v. Nat'l Highway Traffic Safety Admin.*, 538 F.3d 1172, 1217 (9th Cir. 2008) ("[t]he impact of greenhouse gas emissions on climate change is precisely the kind of cumulative impacts analysis that NEPA requires agencies to conduct."); cf. *Kleppe v. Sierra Club*, 427 U.S. 390, 410 (1976) ("Thus, when several proposals for coal-related actions that will have cumulative or synergistic environmental impact upon a region are pending concurrently before an agency, their environmental consequences must be considered together.").

<sup>8</sup> 42 U.S.C. § 4331(a).

<sup>9</sup> 40 C.F.R. § 1506.2.

<sup>10</sup> *Id.* § 1506.2(d).

and the public is an essential component of NEPA's informed decision making process.<sup>11</sup> And as a practical matter, since federal lands comprise a significant portion of the lands in several of our jurisdictions, federal actions taken on those lands often affect our States' residents, natural resources, recreation and tourism.<sup>12</sup>

Our States are on the front lines of climate change, facing threats to our residents' health and property, state public lands, state coastlines, wildlife, threatened and endangered species, water, air, cultural resources, state transportation systems and infrastructure, tourism, and recreation.<sup>13</sup> The Intergovernmental Panel on Climate Change has recently warned that current national commitments to reduce greenhouse gas emissions by 2030 are insufficient to limit warming to 1.5 degrees Celsius by the end of the 21st century. Warming above this level increases the likelihood of significant, irreversible consequences from climate change.<sup>14</sup> In the face of these threats, state and local governments have adopted climate protection laws, greenhouse gas reduction targets, and regulations and guidelines for analyzing and adapting to climate change impacts.<sup>15</sup> Many of our

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<sup>11</sup> See 42 U.S.C. §§ 4331(a), 4332(G).

<sup>12</sup> For example, federal lands comprise 84.9% of Nevada, more than half of Oregon, almost half of California, one-third of New Mexico, one-third of the District of Columbia. See Congressional Research Service, "Federal Land Ownership: Overview and Data," Feb. 21, 2020, <https://sgp.fas.org/crs/misc/R42346.pdf>.

<sup>13</sup> See U.S. Global Change Research Program, Fourth Nat'l Climate Assessment, Summary Findings at 25-32 (2018), [https://nca2018.globalchange.gov/downloads/NC\\_A4\\_Ch01\\_Summary-Findings.pdf](https://nca2018.globalchange.gov/downloads/NC_A4_Ch01_Summary-Findings.pdf); See U.S. Global Change Research Program, 2017: *Climate Science Special Report: Fourth National Climate Assessment, Volume I* [D.J. Wuebbles *et al.* (eds.)], U.S. Global Change Research Program, Washington, DC, USA 17-22 (USGCRP 2017); see New York State Climate Action Council. 2022. "New York State Climate Action Council Scoping Plan." § 1.1 (Dec. 2022) ("Climate change is adversely affecting New York's economic well-being, public health, natural resources, and environment. The severity of climate change and the threat of more severe impacts will be determined by the actions undertaken in New York and other jurisdictions to reduce GHG emissions.") <https://climate.ny.gov/Resources/Scoping-Plan>.

<sup>14</sup> Intergovtl. Panel on Climate Change, Synthesis Report of the IPCC Sixth Assessment Report (AR6), Longer Report § 6.3.1 (Mar. 2023), ("If the 'emission gap' is not reduced, global GHG emissions in 2030 consistent with NDCs announced prior to COP26 make it likely that warming will exceed 1.5°C during the 21st century, while limiting warming to 2°C (>67%) would imply an unprecedented acceleration of mitigation efforts during 2030–2050."), *id.* at § 3.1.3 ("The likelihood of abrupt and irreversible changes and their impacts increase with higher global warming levels . . .") [https://report.ipcc.ch/ar6syr/pdf/IPCC\\_AR6\\_SYR\\_LongerReport.pdf](https://report.ipcc.ch/ar6syr/pdf/IPCC_AR6_SYR_LongerReport.pdf).

<sup>15</sup> See, e.g., New York CLCPA 7(2), 7(3); Comm'rs Policies 49 and DAR 21, OCC/DEP Policy on Evaluating GHGs for EISs; Community Risk and Resiliency Act and Related

States have also acted to advance environmental justice and have recognized that the impacts of climate change are often disproportionately distributed.<sup>16</sup> Therefore, federal actions impact the States' interests in addressing the climate threat,

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guidance, Smart Growth Public Infrastructure Policy Act; 6 NYCRR Part 494; New York State Climate Action Council, "New York State Climate Action Council Scoping Plan." CA Executive Order B-55-18 (carbon neutrality by 2045 & net negative GHG thereafter); SB 32 (reduce GHG 40% below 1990 levels by 2030); SB 375 (regional transportation plans consistent with GHG reduction targets); Cal. Code Regs. tit. 13, § 1961.4 (requiring all new passenger vehicles to be zero-emission by 2035); Wash. Rev. Code § 70A.45.020(1) (setting incremental limits on statewide emissions to reduce them to 95% below 1990 levels by 2050); Wash. Rev. Code § 70A.65.060 (establishing a cap and invest program); Wash Rev. Code § 19.405.040-050 (requiring retail sales of electricity to Washington customers to be greenhouse gas neutral by 2030 and 100% renewable by 2045); Massachusetts Clean Energy and Climate Plan for 2025 and 2030, which requires, pursuant to the Massachusetts Global Warming Solutions Act, Mass. Gen. Law ch. 21N, as amended by the Next-Generation Roadmap for Massachusetts Climate Policy, 2021 Mass. Acts Ch. 8, that the Commonwealth achieve at least net zero greenhouse gas emissions statewide and economywide by 2050, and in no event higher than a level 85% below a 1990 emissions baseline (with interim limits requiring emissions at least 50% below 1990 by 2030, and at least 75% below by 2040). See <https://www.mass.gov/doc/clean-energy-and-climate-plan-for-2025-and-2030/download>; 38 M.R.S. § 576-A (setting forth Maine's greenhouse gas reductions of 45% below 1990 gross annual greenhouse gas levels by 2030 and 80% by 2050); Oregon's Clean Energy Targets legislation, passed in 2021, requires Oregon's investor-owned electric utilities to reduce greenhouse gas emissions to 80% below baseline levels by 2035 and to zero by 2040. ORS 469A.410(1)(a)-(c). Oregon's Climate Protection Program, adopted by administrative rule in 2021, adopts a declining cap on greenhouse gas emissions from covered fuel suppliers (including suppliers of fuel for transportation and fuel used in residential, commercial and industrial settings). OAR 340-271. The overall cap declines from 28,081,335 MT CO<sub>2</sub>e in 2022 to 15,021,080 in 2035 and to 3,004,216 in 2050. OAR 340-271-9000, Table 2. In 2007, the Oregon Legislature established a goal of reducing greenhouse gas emissions to 75% below 1990 levels by 2050. ORS 468A.205. And in March 2020, Governor Kate Brown signed Executive Order 20-04, directing State of Oregon agencies to take action to reduce and regulate greenhouse gas emissions toward meeting reduction goals of at least 45 percent below 1990 emissions levels by 2035 and at least 80 percent below 1990 levels by 2050. [https://www.oregon.gov/gov/eo/eo\\_20-04.pdf](https://www.oregon.gov/gov/eo/eo_20-04.pdf).

<sup>16</sup> See Wash. Rev. Code § 70A.02.005 (discussing Washington's interest in reducing disparate environmental health impacts, including from climate change). In addition, New Jersey's Environmental Justice Law requires the New Jersey Department of Environmental Protection (NJDEP) to evaluate the environmental and public health impacts of certain facilities on overburdened communities when reviewing certain permit applications. N.J.S.A. 13:1D-157 et seq. New Jersey's Governor Murphy has directed NJDEP to facilitate an Environmental Justice Interagency Council (EJIC), which convenes to help agencies adopt EJ principles into their regulatory and programmatic responsibilities; complete EJ initial assessments; participate in workshops and trainings; and create EJ action plans. N.J. Exec. Order No. 23.

interacting and potentially conflicting with adopted laws, policies and plans, many of which recognize the disproportionate harms to already overburdened communities from greenhouse gas emissions and associated climate change impacts.

### **III. The Guidance Is a Critical Step Forward and Can Be Strengthened in Several Key Ways.**

The States applaud CEQ's guidance to agencies as they comply with NEPA's mandate to analyze greenhouse gas emissions, climate impacts, and environmental justice. The Guidance updates and improves upon guidance issued in 2016 during the Obama Administration and recognizes the growing urgency of climate issues and their disproportionate impacts on communities with environmental justice concerns. We support the Guidance's strong yet balanced approach to assessing the effects of greenhouse gases and impacts to proposed actions from climate change.

Many of the undersigned States have been involved in CEQ's work to update its GHG guidance.<sup>17</sup> Meanwhile, the States have continued to develop approaches to assessing climate impacts under our own state-level environmental reviews and climate laws, policies and plans. The lessons we have learned from analyzing these issues at multiple levels inform these comments. As discussed further below, the States support strengthening the Guidance to assist federal agencies in accounting for inconsistencies with state, Tribal and local climate goals and to assess reasonable alternatives and mitigation measures to make actions under review more consistent with those efforts.<sup>18</sup>

Regardless of the extent of the required analysis, however, agencies need sufficient financial and personnel resources to analyze greenhouse gas emissions. Limited funding has long impeded the speed and efficacy of NEPA reviews. As agencies undertake increasingly rigorous greenhouse gas analyses under the Guidance, adequate funding and staffing are critically important.

The Guidance addresses 11 major areas for how agencies should apply NEPA and existing best practices to analyze climate change when performing environmental reviews. The Guidance:

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<sup>17</sup> See, e.g., Draft National Environmental Policy Act Guidance on Consideration of Greenhouse Gas Emissions, 84 Fed. Reg. 30097 (June 26, 2019); see also Comments of the Attorneys General of California, *et al.*, Docket ID. CEQ-2019-0002-6749 (Aug. 26, 2019), <https://www.regulations.gov/comment/CEQ-2019-0002-6749>. This draft guidance was rescinded in 2021. Executive Order 13990, at § 7(e) (Jan. 20, 2021).

<sup>18</sup> Unless otherwise noted, the States use NEPA terms of art, such as alternatives and mitigation, consistent with the definitions at 40 C.F.R. § 1508.1.

- i. recommends agencies leverage early planning processes to integrate greenhouse gas emissions and related climate concerns when identifying proposed actions, alternatives, and mitigation measures;
- ii. recommends agencies quantify a proposed action's projected greenhouse gas emissions or reductions for the action's lifetime, considering available tools and data;
- iii. recommends agencies use projected greenhouse gas emissions of proposed actions and their reasonable alternatives to assess potential climate changes effects;
- iv. recommends agencies provide additional context for greenhouse gas emissions, including estimating the social cost of greenhouse gas emissions (SC-GHG);
- v. discusses methods to appropriately analyze reasonably foreseeable direct, indirect and cumulative greenhouse gas emissions;
- vi. guides agencies in considering alternatives and mitigation measures and addressing short- and long-term climate change effects;
- vii. advises agencies to use best available information and provides current examples of existing sources of scientific information;
- viii. recommends agencies use the information developed during NEPA review to consider reasonable alternatives to make proposed actions and affected communities more resilient;
- ix. outlines unique considerations for agencies analyzing biogenic carbon dioxide sources and carbon stocks associated with land and resource management actions;
- x. advises agencies that the "rule of reason" should guide agencies in determining how to consider environmental effects and prepare analysis based on available information; and
- xi. reminds agencies to incorporate environmental justice considerations into analysis of climate-related effects consistent with Executive Orders 12898 and 14008.<sup>19</sup>

In the detailed comments that follow, the States expand on their support for key provisions and provide suggestions on where CEQ could further strengthen agencies' analysis of these issues in NEPA reviews. For clarity, the States discuss the following key sections of the Guidance indicated by the section headings used in CEQ's Federal Register notice.

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<sup>19</sup> 88 Fed. Reg. at 1198.

- a. The States Agree that NEPA Requires Agencies to Quantify a Proposed Action’s Greenhouse Gas Emissions, And Urge CEQ to Provide Additional Direction (Guidance Section IV(A)).

The States strongly support CEQ’s clear statement that federal agencies should quantify and assess the greenhouse gas emissions from proposed federal actions, using federal resources to assist with the analysis. The States agree that it is insufficient for federal agencies to simply state that a proposed action and its alternatives are only a small fraction of global or domestic emissions because such comparisons do “not reveal anything beyond the nature of the climate change challenge itself.”<sup>20</sup>

The States further support the Guidance’s recommendation to center analysis around the public health and environmental effects of a proposed action and to explain these impacts in clear terms with sufficient information to yield a reasoned decision. The States also support directing guiding agencies to calculate gross and net emission reductions or increases and prepare annual calculations where appropriate. As directed by the Guidance, a full lifecycle analysis of greenhouse gas emissions should be performed when relevant that includes an analysis of upstream and downstream emissions from an action for the foreseeable lifetime of that action.<sup>21</sup> Where information about these emissions is missing or otherwise unknown, we support the Guidance’s emphasis that such omitted information is not a basis to ignore and fail to analyze these impacts, which are still reasonably foreseeable.<sup>22</sup>

CEQ should strengthen the Guidance by providing more information and examples on how agencies should determine the significance of greenhouse gas emissions using the criteria in CEQ’s NEPA regulations. CEQ should also provide more technical resources specifically aimed at facilitating timely and robust reviews of the avoided emissions associated with individual clean energy projects.

For example, the Guidance refers to quantification and assessment tools available on CEQ’s website.<sup>23</sup> These include EPA’s AVERT tool for analyzing emission impacts from energy efficiency and renewable energy policies and programs

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<sup>20</sup> 88 Fed. Reg. at 1201.

<sup>21</sup> *See id.* at 1202; *Ctr. for Biological Diversity v. Bernhardt*, 982 F.3d 723, 735 (9th Cir. 2020); *Diné Citizens Against Ruining Our Env’t v. Haaland*, 59 F.4th 1016, 1043 (10th Cir. 2023).

<sup>22</sup> 88 Fed. Reg. at 1202.

<sup>23</sup> *Id.* at 1201 n.56.



in the electric power sector,<sup>24</sup> the Emissions Generation Resource Integrated Database (eGrid) for providing data on the carbon intensity of electricity generation, the Grid Project Impact Quantification Tool (GridPIQ) for estimating the impacts of smart grid technology deployments, and several transportation-related tools for estimating GHG emissions from the construction and maintenance of transportation facilities and modes of transit. These tools are valuable for their intended purposes; however, some of them are less effective for assessing specific clean energy projects. For example, AVERT expressly excludes emission reductions upstream of the utility sector and is not recommended for use on small local program or individual development projects.<sup>25</sup> Therefore, the Guidance could be strengthened by discussing and providing examples of resources specifically geared to evaluating the greenhouse gas emissions and climate impacts of individual proposed actions and clean energy projects.

In particular, we recommend that CEQ provide technical resources and examples of how to quantify avoided emissions, potential methodologies for those calculations, and suggestions of how to best disclose assumptions and provide rational analysis for those assumptions for individual projects. This would make review of clean energy projects more efficient, keep the Guidance current even as quantification tools evolve, and better inform the public and decision makers about the potential environmental benefits of such projects. Providing these additional resources would help to ensure that agencies use reasonable methodologies to conduct this analysis without creating an additional burden and potential delay from having agencies develop those methodologies on their own.<sup>26</sup>

The States also recommend strengthening the approach to calculating methane emissions, an important and potent greenhouse gas. In discussing the nature of climate change generally, the Guidance highlights the importance of

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<sup>24</sup> CEQ, GHG Tools and Resources, GHG Estimating Tools, Energy (Efficiency, Renewable), Avoided Emissions and GeneRation Tool (AVERT), <https://ceq.doe.gov/guidance/ghg-tools-and-resources.html>.

<sup>25</sup> *Id.* Similarly, the existing transportation tools may not be applicable to all projects, particularly smaller projects. State transportation departments could benefit from additional guidance, from CEQ or from USDOT, on issues like quantifying avoided emissions.

<sup>26</sup> *See* 42 U.S.C. §§ 4344(5), (6) (under NEPA, CEQ must “conduct investigations, studies, surveys, research, and analyses relating to ecological systems and environmental quality . . . [and] document and define changes in the natural environment, including the plant and animal systems, and to accumulate necessary data and other information for a continuing analysis of these changes or trends and an interpretation of their underlying causes.”).

methane,<sup>27</sup> echoing the most recent Intergovernmental Panel on Climate Change Sixth Assessment Report.<sup>28</sup> We recommend that the Guidance encourage agencies to use the most up-to-date GWPs available from the Intergovernmental Panel on Climate Change when making decisions, because these values reflect current atmospheric conditions.<sup>29</sup>

b. NEPA Requires Federal Agencies to Disclose and Provide Context for a Proposed Action’s GHG Emissions and Climate Effects (Guidance Sections IV(B) and IV (F)).

The States agree with CEQ’s direction in Section IV(B) that federal agencies must disclose and provide the context for a proposed action’s greenhouse gas emissions and associated climate impacts in addition to quantifying the project’s emissions. As the Guidance properly notes, a simple comparison of the proposed action’s emissions to global or domestic emissions does not comply with NEPA because “[s]uch a statement merely notes the nature of the climate change challenge” and does not inform the agency’s decision.<sup>30</sup> Instead, NEPA’s informed and transparent decision making mandate requires agencies to rely on scientifically accurate and reliable information to contextualize the significance of a project’s greenhouse gas emissions and associated environmental consequences.<sup>31</sup>

The States applaud CEQ’s general direction that agencies should (1) apply the “best available estimates of the SC-GHG to the incremental metric tons of each type of [greenhouse gas] emissions from a proposed action and its alternatives”; (2) explain

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<sup>27</sup> 88 Fed. Reg. at 1199.

<sup>28</sup> See, e.g., Intergovernmental Panel on Climate Change, Sixth Assessment Report, Synthesis Report, Summary for Policymakers, Finding B.1.2 (2023), [https://report.ipcc.ch/ar6syr/pdf/IPCC\\_AR6\\_SYR\\_SPM.pdf](https://report.ipcc.ch/ar6syr/pdf/IPCC_AR6_SYR_SPM.pdf).

<sup>29</sup> See, e.g., EPA, Climate Change Indicators, <https://www.epa.gov/climate-indicators/greenhouse-gases#major-long-lived-greenhouse-gases-and-their-characteristics> (referencing values from the Sixth Assessment Report); see also MD. Code. Ann., Envir. § 2-1205(e)(3) (2022) (Instructing state greenhouse gas reduction plans “shall use the global warming potential for methane over a 20-year time horizon”).

<sup>30</sup> 88 Fed. Reg. at 1201; see also *Diné Citizens Against Ruining Our Env’t*, 59 F.4th at 1043 (“Simply stating what percentage the emissions will make up of regional, national, and global emissions does not meaningfully inform the public or decisionmakers about the impact of the emissions.”); *350 Montana v. Haaland*, 50 F.4th 1254, 1268-70 (9th Cir. 2022) (holding that the Bureau of Land Management violated NEPA by failing to rationally contextualize the significance of a project’s greenhouse gas emissions and instead relying on “an opaque comparison to total global emissions.”)

<sup>31</sup> 42 U.S.C. § 4332(2)(F) (requiring agencies to consider worldwide and long-range environmental problems); *Diné Citizens Against Ruining Our Env’t*, 59 F.4th at 1043; *350 Montana*, 50 F.4th at 1269-70.

how certain proposed actions “would help meet or detract from achieving relevant climate action goals and commitments,” including federal, international, state, Tribal, and local goals and commitments; (3) “summarize and cite to available scientific literature to help explain the real-world effects” of the proposed action; and (4) make their analyses accessible to the public by providing comparisons or equivalents of greenhouse gas emissions in familiar terms such as the number of cars on the road.<sup>32</sup>

CEQ should strengthen the Guidance by (i) ensuring agencies disclose and analyze any inconsistencies between a proposed action and state, Tribal, and local laws, goals, commitments and policies to address climate change and, where appropriate, consider alternatives to reduce those inconsistencies; and (ii) strengthening language to provide additional context for SC-GHG calculations.

- i. Federal agencies should disclose and analyze any inconsistencies between a proposed action and state, Tribal, and local laws, commitments, and policies to address climate change and, where appropriate, consider alternatives to reduce those inconsistencies.

To properly contextualize a project’s emissions and make an informed decision, federal agencies must consider the impact of a proposed action and its alternatives on relevant climate action laws, goals and commitments. Only with this context can an agency’s NEPA review allow the public and decision makers to make meaningful comparisons between an action and its alternatives.<sup>33</sup> To that end, the States applaud CEQ’s statement that agencies should provide context by explaining how the proposed action and its alternatives would help meet or detract from relevant climate action goals and commitments, including international agreements, federal laws and goals (including agency-specific goals), state law mandates and goals, Tribal laws and goals, regional goals, and others as appropriate.<sup>34</sup> Such guidance is consistent with CEQ’s longstanding practice of encouraging federal agencies to coordinate NEPA review with other federal approvals and planning processes, and with state and local agencies.<sup>35</sup>

CEQ should strengthen its Guidance by emphasizing that federal agencies should be transparent about how their proposed actions will impact state, Tribal, and

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<sup>32</sup> 88 Fed. Reg. at 1202-03.

<sup>33</sup> *Id.* at 1198.

<sup>34</sup> *Id.* at 1203; *see also id.* at 1201; 40 C.F.R. § 1506.2.

<sup>35</sup> *See* CEQ, NATIONAL ENVIRONMENTAL POLICY ACT: A STUDY OF ITS EFFECTIVENESS AFTER TWENTY-FIVE YEARS, at 25 (Jan. 1997), <https://ceq.doe.gov/docs/ceq-publications/nepa25fn.pdf> (“By working at the level of specific places, and involving the planning goals of local and state agencies, federal agencies can make better decisions for an ecosystem and its surrounding communities.”).

local efforts to address the climate crisis and to account for “any relevant approved State, Tribal or local plan, law or policy” including any specific greenhouse gas reduction mandates or goals, climate priorities, and scientifically established state-specific climate change projections for sea level rise and extreme precipitation events. For example, the Guidance should recommend that agencies presume that a project increasing emissions is inconsistent with emission reduction targets, and guide agencies to determine if there are reasonable alternatives that avoid such conflicts.<sup>36</sup> NEPA’s plain language supports such firm direction by emphasizing the important role of states in the NEPA review process.<sup>37</sup> Consistent with this language, CEQ has long directed federal agencies to cooperate with state and local agencies and to address any inconsistencies with state and local plans and laws.<sup>38</sup>

Sometimes proposed federal actions directly conflict with state emission reduction laws, policies, and goals, but they may also indirectly conflict. For example, federal actions providing additional natural gas for electricity generation may make clean energy transitions more costly, impeding state laws requiring energy generators to shift to renewable resources and may also conflict with similar Tribal climate goals and efforts to reduce fossil fuels.<sup>39</sup>

Similarly, federal actions may conflict with state efforts to address disparate climate change impacts. Accordingly, NEPA reviews should also consider state efforts to advance environmental justice and, where appropriate, work in partnership with state agencies to ensure federal projects account for state environmental justice

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<sup>36</sup> 40 C.F.R. § 1506.2.

<sup>37</sup> 42 U.S.C. § 4332(2)(G) (directing agencies to work in concert with state and local governments by making available “advice and information useful in restoring, maintaining, and enhancing the quality of the environment”); *see also id.* § 4332(2)(F).

<sup>38</sup> *Compare* 40 C.F.R. § 1506.2(d) (2022) (directing that EISs “shall discuss any inconsistency of a proposed action with any approved State, Tribal, or local plan or law” and to “describe the extent to which the agency would reconcile its proposed action with the plan or law”), *with id.* § 1502.2(d) (2019) (directing that environmental impact “statements shall discuss any inconsistency of a proposed action with any approved State or local plan and laws” and to “describe the extent to which the agency would reconcile its proposed action with the plan or law.”).

<sup>39</sup> *See* Comments on the Draft Environmental Impact Statement by the States of Washington, Oregon, and California, at 6-9, Gas Transmission Northwest, LLC, Docket No. CP22-2-000 (GTN Xpress Project) (Aug. 22, 2022), <https://elibrary.ferc.gov/eLibrary/search>; Comments on the Draft Environmental Impact Statement by the Columbia River Inter-Tribal Fish Commission, at 1, Gas Transmission Northwest, LLC, Docket No. CP22-2-000 (GTN Xpress Project) (Aug. 22, 2022) (“[T]he [GTN Xpress] Project is in direct conflict with tribes’ and states’ climate goals for reducing fossil fuels.”), <https://elibrary.ferc.gov/eLibrary/search>.

efforts.<sup>40</sup> Federal actions that present climate-related risks also may be inconsistent with state, Tribal, and local plans for resilience and adaptation.<sup>41</sup> Given the range of potential inconsistencies, CEQ should strengthen the Guidance by providing examples of how agencies could address and mitigate any inconsistencies that may arise. Examples could include both situations in which possible mitigation measures could better protect human health and safety and natural resources under projected future climate conditions, or in which reasonable alternatives may offer better protection.

Many states and state agencies have developed their own processes for evaluating greenhouse gas emissions for proposed actions.<sup>42</sup> As with other parts of

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<sup>40</sup> Wash. Rev. Code ch. 70A.65 (Washington Climate Commitment Act); Wash. Rev. Code ch. 70A.02 (Washington Healthy Environment for All Act); St. 2021, ch. 8, §§ 56-60 and related revisions to the Massachusetts Environmental Policy Act (MEPA) regulations at 301 Code Mass. Reg. §§ 11.00 et seq. (effective Dec. 24, 2021), to require that projects undergoing review under MEPA, Mass. Gen. Laws ch. 30, §§ 61-62L, and located within certain designated geographic areas around Environmental Justice (EJ) populations conduct enhanced outreach and analysis of potential disproportionate adverse effects, including increased climate risks, on such EJ Populations, *see* <https://www.mass.gov/service-details/information-about-upcoming-regulatory-updates>. MEPA also released two protocols (effective Jan. 1, 2022) that provide further guidance and identify methodologies for complying with the new EJ regulations; MEPA Public Involvement Protocol for EJ Populations and the Protocol for Analysis of Project Impacts on EJ Populations, *see* <https://www.mass.gov/guides/environmental-justice-protocols-and-resources#-updates-to-eea-ej-maps-viewer->.

<sup>41</sup> *See* 88 Fed. Reg. at 1209 (noting that “[w]here the analysis identifies climate-related risks to the proposed action or to the area affected by the proposed action, the agency should consider possible resilience and adaptation measures, including measures consistent with State, Tribal, or local adaptations plans—that could be employed to manage those effects.”). For example, in Massachusetts, the MEPA Interim Protocol on Climate Change Adaptation and Resiliency (effective Oct. 1, 2021) requires consideration of climate change risks and resilience measures for all projects filed with the MEPA Office. *See* <https://www.mass.gov/doc/mepa-interim-protocol-on-climate-change-adaptation-and-resiliency-effective-oct-1-2021/download>.

<sup>42</sup> *See e.g.*, California Code of Regulations, title 14, section 15064.4 (providing guidance to lead state agencies on GHG impact significance determinations); California’s recommendations: [https://opr.ca.gov/docs/20181228-Discussion\\_Draft\\_Climate\\_Change\\_Adivsory.pdf](https://opr.ca.gov/docs/20181228-Discussion_Draft_Climate_Change_Adivsory.pdf); NY DEC [Guide for Assessing Energy Use and Greenhouse Gas Emissions in an Environmental Impact Statement](#) (addressing analysis of direct and indirect sources of GHG); PennDOT Publication No. 321 “Project Level Air Quality Handbook,” last updated in 2017; N.Y. Dep’t of Env’tl. Conserv., Comm’r Policy CP-49: Climate Change and DEC Action (rev. Dec. 14, 2022), *available at* [https://www.dec.ny.gov/docs/administration\\_pdf/cp492022.pdf](https://www.dec.ny.gov/docs/administration_pdf/cp492022.pdf); Massachusetts Environmental Policy Act (MEPA), Greenhouse Gas Policy and Protocol (2010) (requiring that projects undergoing environmental impact report (EIR) review under MEPA, Mass. Gen. Laws ch. 30, §§ 61-62L, quantify the proposed project’s



the NEPA review process,<sup>43</sup> CEQ should encourage federal agencies to coordinate with state and local partners where projects require similar analyses under state laws. CEQ could potentially aid this federal-state partnership by providing a tool or clearinghouse, in addition to this Guidance, to connect federal agencies with state agencies engaged in similar analyses.

In addition, as noted in more detail in Section III.b.ii, below, the Guidance should instruct agencies that they cannot avoid providing the necessary context for proposed fossil fuel-related actions by defining the project's purpose and need so narrowly that it excludes consideration of clean energy alternatives that would address or mitigate inconsistencies with federal, international, state, Tribal, and local efforts to address climate change.

ii. Federal agencies should provide additional context for Social Cost of Greenhouse Gases (SC-GHG) calculations.

The SC-GHG tool is critical to understanding a project's social impacts and costs,<sup>44</sup> and the States applaud CEQ's direction that agencies should broadly consider SC-GHG in their NEPA analyses. Courts and agencies at the federal and state levels recognize the SC-GHG as methodologically sound and the best available method for assigning a monetary value to greenhouse gas emissions.<sup>45</sup> In particular, the States agree that putting a price tag on the long-term costs of greenhouse gas emissions—particularly carbon dioxide, methane, and nitrous oxide—provides meaningful

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greenhouse gas emissions and identify mitigation measures—including the direct and indirect emissions from stationary sources (both on-site emissions and off-site energy generation from the project's energy use), mobile sources (traffic generation from both project vehicles and inducted travel by third parties), and additional optional categories, including direct emissions and lost carbon sequestration from large scale land and forest clearing, *see*. <https://www.mass.gov/doc/greehouse-gas-emissions-policy-and-protocol/download>.

<sup>43</sup> *See* Council on Environmental Quality, States and Local Jurisdictions with NEPA-like Environmental Planning Requirements, <https://ceq.doe.gov/laws-regulations/states.html>.

<sup>44</sup> *See* IWG-SC-GHG, U.S. Gov't, Technical Support Document, Social Cost of Carbon, Methane, and Nitrous Oxide Interim Estimates under Executive Order 13990, at 2 (Feb. 2021) (“The SC-GHG- is the monetary value of the net harm to society associated with adding a small amount of that GHG to the atmosphere in a given year.”), [https://www.whitehouse.gov/wp-content/uploads/2021/02/TechnicalSupportDocument\\_SocialCostofCarbonMethaneNitrousOxide.pdf?msclkid=b3970d46bc0911ecb2044bed89fb2b76](https://www.whitehouse.gov/wp-content/uploads/2021/02/TechnicalSupportDocument_SocialCostofCarbonMethaneNitrousOxide.pdf?msclkid=b3970d46bc0911ecb2044bed89fb2b76).

<sup>45</sup> State of New York, et al., Comments on the Office of Management and Budget's Request for Comment on Technical Support Document: Social Cost of Carbon, Methane, and Nitrous Oxide Interim Estimates Under Executive Order 13990, 86 Fed. Reg. 24,669, at 14-17 (June 21, 2021) (Multistate TSD Comments), [https://www.doj.state.or.us/wp-content/uploads/2021/06/multistate\\_scc\\_comments.pdf](https://www.doj.state.or.us/wp-content/uploads/2021/06/multistate_scc_comments.pdf).

context for a proposed action and that such monetization is appropriate in “most,” if not all, circumstances.<sup>46</sup>

As the Guidance accurately observes, application of the SC-GHG tool “provides an appropriate and valuable metric that gives decision makers and the public useful information and context about a proposed action’s climate effects even if no other costs or benefits are monetized, because metric tons of greenhouse gases can be difficult to understand and assess the significance of in the abstract.”<sup>47</sup> Monetization of these climate costs and benefits can also be particularly helpful for agencies, stakeholders, and the public when comparing clean energy project alternatives to proposed fossil fuel projects and when comparing project costs to quantified project benefits.<sup>48</sup> Monetization could also be used to analyze GHG mitigation banking options, setting aside funds to offset increased emissions from some projects to pay for projects to reduce emissions elsewhere. Because monetization of climate impacts leads to more informed and transparent decision making, it is a critical component of the NEPA analysis for proposed projects that will result in greenhouse gas emissions.<sup>49</sup>

The States believe that the Guidance’s SC-GHG provisions should be strengthened, however, in several key ways:

First, in addition to stating that agencies “should apply the best available estimates of the SC-GHG” tool,<sup>50</sup> the Guidance should emphasize that principles of reasoned and informed decision making require federal agencies to disclose and explain the methodology and assumptions underlying their SC-GHG calculations.<sup>51</sup> In particular, agencies should disclose any omission of global impacts from the SC-GHG calculation and explain their reasoning for excluding this component.<sup>52</sup> Agencies should also disclose the estimated price of carbon and discount rate used in

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<sup>46</sup> 88 Fed. Reg. at 1202.

<sup>47</sup> *Id.*

<sup>48</sup> *Id.* at 1203.

<sup>49</sup> See *Andrus v. Sierra Club*, 442 U.S. 347, 350-51 (1979) (“If environmental concerns are not interwoven into the fabric of agency planning, the ‘action-forcing’ characteristics of § 102(2)(C) would be lost . . . .”); *Ctr. for Biological Diversity*, 538 F.3d at 1198–1203; cf. *Sierra Club v. Federal Energy Regul. Comm’n*, 867 F.3d 1357, 1374 (D.C. Cir. 2017) (emphasizing that quantifying emissions is critical to informed decision making under NEPA).

<sup>50</sup> 88 Fed. Reg. at 1202.

<sup>51</sup> See *Seattle Audubon Soc. v. Espy*, 998 F.2d 699, 705 (9th Cir. 1993) (holding agency violated NEPA when the EIS rested on stale scientific evidence and the agency did not address uncertainties surrounding the scientific evidence).

<sup>52</sup> Multistate TSD Comments at 17-18.

their SC-GHG calculation, their basis for using that rate, and how their selected price and/or discount rate may affect a project’s social cost.

This recommendation is consistent with the Guidance’s direction that agencies utilize the best available SC-GHG estimates, and it recognizes that those estimates will be fine-tuned over time as the price of greenhouse gas emissions continues to evolve. Federal agencies should ensure that they rely on the most up-to-date calculations to best account for a project’s social costs. Lower prices of carbon and higher discount rates may undervalue future social costs of greenhouse gas emissions. Accordingly, many of the undersigned States and their agencies have adopted discount rates under 3 percent to better account for the social costs of greenhouse gas emissions in their decisions.<sup>53</sup> In the *Technical Support Document: Social Cost of Carbon, Methane and Nitrous Oxide – Interim Estimates Under Executive Order 13990*,<sup>54</sup> the Interagency Working Group on Social Cost of Greenhouse Gases explained why it, too, believes “a consideration of discount rates below 3 percent, including 2 percent and lower, are warranted when discounting intergenerational impacts.”<sup>55</sup> The Technical Support Document noted that a survey of “over 200 experts . . . found a ‘surprising degree of consensus among experts, with more than three-quarters finding the median risk-free social discount rate of 2 percent acceptable.’”<sup>56</sup> Transparency around these metrics will aid agencies, stakeholders, and the public as they review the SC-GHG calculations and will help them to better understand where the “SC-GHG estimates . . . may be conservative underestimates” of a proposed action’s climate harms.<sup>57</sup>

Second, while the States applaud CEQ’s direction that agencies should acknowledge that the SC-GHG estimates may undercount climate harms by excluding various damage categories like ocean acidification, the States recommend that CEQ advise agencies to explain in their NEPA analyses where the SC-GHG calculation excludes the costs of certain climate change impacts or omits certain damage categories.<sup>58</sup> As New York’s evaluation of appropriate SC-GHG values observed, “[t]he [climate models] only partially account for, or omit, many significant impacts of climate change that are difficult to quantify or monetize, including ecosystems, increased fire risk, the spread of pests and pathogens, mass extinctions,

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<sup>53</sup> *Id.* at 21-24.

<sup>54</sup> Interagency Working Grp. On Social Cost of Greenhouse Gases, *Technical Support Document: Social Cost of Carbon, Methane and Nitrous Oxide – Interim Estimates Under Executive Order 13990* (February 2021), available at <https://perma.cc/5B4Q-3T5Q>.

<sup>55</sup> Multistate TSD Comments at 21.

<sup>56</sup> *Id.* at 20.

<sup>57</sup> 88 Fed. Reg. at 1203.

<sup>58</sup> *See, e.g.*, Multistate TSD Comments at 25-30, 32-24.



large-scale migration, increased conflict, slower economic growth, and potential catastrophic impacts.”<sup>59</sup> A report sponsored by the Environmental Defense Fund, Natural Resources Defense Council, and the Institute for Policy Integrity observed that the “omission [of wildfires] is particularly problematic.”<sup>60</sup> Another example of impacts that current models do not account for is damages to historically and culturally significant resources.<sup>61</sup>

These unquantified impacts can have significant social costs that disproportionately harm communities already experiencing disparate climate impacts. For example, as the wildfire season becomes lengthier and more destructive due to climate changes, millions of Americans are exposed to prolonged episodes of dangerously poor air quality.<sup>62</sup> Black communities, Indigenous communities, communities of color, and low-income communities are often most impacted by and vulnerable to wildfire smoke and other air pollution.<sup>63</sup> The loss of culturally and historically significant resources, which is not accounted for in the current SC-GHG calculation may, among other things, result in the SC-GHG tool significantly undervaluing the unique cost of a proposed action on Tribes and Indigenous communities and their cultural traditions.<sup>64</sup> And the SC-GHG tool may also fail to

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<sup>59</sup> Resources for the Future, *Estimating the Value of Carbon: Two Approaches*, at 3 (Oct. 2020, revised April 2021), [https://media.rff.org/documents/RFF\\_NYSERDA\\_Valuing\\_Carbon\\_Synthesis\\_Memo.pdf](https://media.rff.org/documents/RFF_NYSERDA_Valuing_Carbon_Synthesis_Memo.pdf); see also Att. 24, Ruth DeFries, et al., *The missing economic risks in assessments of climate change impacts* (Sept. 2019), available at <https://www.lse.ac.uk/granthaminstitute/wp-content/uploads/2019/09/The-missing-economic-risks-in-assessments-of-climate-change-impacts-2.pdf>; Att. 25, Institute for Policy Integrity, *A Lower Bound: Why the Social Cost of Carbon Does Not Capture Critical Climate Damages and What that Means for Policymakers* (Feb. 2019), [https://policyintegrity.org/files/publications/Lower\\_Bound\\_Issue\\_Brief.pdf](https://policyintegrity.org/files/publications/Lower_Bound_Issue_Brief.pdf); Att. 26, Peter Howard, *Omitted Damages: What’s Missing from the Social Cost of Carbon*, at 30 (Mar. 13, 2014).

<sup>60</sup> Peter Howard, *Flammable Planet: Wildfires and the Social Cost of Carbon* (2014), found at [https://costofcarbon.org/files/Flammable\\_Planet\\_Wildfires\\_and\\_Social\\_Cost\\_of\\_Carbon.pdf](https://costofcarbon.org/files/Flammable_Planet_Wildfires_and_Social_Cost_of_Carbon.pdf).

<sup>61</sup> See National Academy of Sciences, *Valuing Climate Damages: Updating Estimation of the Social Cost of Carbon Dioxide* (2017) at 152-53.

<sup>62</sup> *Fourth National Climate Assessment*, at 521-22 (explaining that “[e]xposure to wildfire smoke increases the risk of respiratory disease and mortality”).

<sup>63</sup> Davies et al., IP, *The unequal vulnerability of communities of color to wildfire*. PLoS ONE 13(11): e0205825 (2018), <https://doi.org/10.1371/journal.pone.0205825>.

<sup>64</sup> See National Academy of Sciences, *Valuing Climate Damages: Updating Estimation of the Social Cost of Carbon Dioxide*, at 152 (2017). EPA-HQ-OAR-2021-0317-1566, Regulatory Impact Analysis of the Supplemental Proposal for the Standards of Performance for New, Reconstructed, and Modified Sources and Emissions Guidelines for

account for the varying impact of climate change on communities experiencing environmental injustices. Agencies should disclose where the SC-GHG tool underestimates or fails to account for the disproportionate impacts on Black communities, Indigenous communities, communities of color, and low-income communities.<sup>65</sup>

The fact that the SC-GHG calculations do not account for the cultural and historic value of resources is particularly important to acknowledge in the NEPA context. The definition of “effects” in the NEPA implementing regulations specifically includes “historic [and] cultural” effects.<sup>66</sup> And NEPA itself states that one of the purposes of NEPA is to “preserve important [and] cultural . . . aspects of our national heritage.”<sup>67</sup> Thus, the readers of NEPA analyses that employ the SC-GHG would assume, absent any disclaimer, that the metric captures those effects.

The threat that climate change poses to culturally and historically significant resources extends beyond the impact on Tribes and Indigenous communities. The Union of Concerned Scientists has identified many historic sites and landmarks at risk from climate change, including:

- Boston historic districts and Faneuil Hall, MA
- The Statue of Liberty and Ellis Island, NY
- Harriet Tubman National Monument, MD
- Historic Annapolis, MD
- Historic Jamestown, VA
- Fort Monroe National Monument, VA
- NASA’s Coastal Facilities, FL and TX
- Cape Hatteras Lighthouse, NC
- Historic Charleston, SC
- Historic St. Augustine, FL
- Mesa Verde National Park, CO

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Existing Sources: Oil and Natural Gas Sector Climate Review; Carlson Viles, *Tribal Climate Change Profile: First Foods and Climate Change* (December 2011), available at [http://www7.nau.edu/itep/main/tcc/docs/tribes/tribes\\_FirstFoodsCC.pdf](http://www7.nau.edu/itep/main/tcc/docs/tribes/tribes_FirstFoodsCC.pdf). The States, of course, do not presume to speak for the sovereign tribal nations or their interests. We encourage the CEQ and other federal agencies to engage in government to government consultation with Tribal nations to learn of specific threats climate change poses to their governments, communities, and cultural resources.

<sup>65</sup> See, e.g., Multistate TSD Comments at 30-31.

<sup>66</sup> 40 C.F.R. § 508.1(g)(4).

<sup>67</sup> 42 U.S.C. § 4331(b)(4).

- Bandelier National Monument, NM
- Cesar Chavez National Monument, CA.<sup>68</sup>

Agencies should acknowledge in their NEPA analyses where the SC-GHG calculation excludes these significant public health, cultural, and economic costs, and where possible, attempt to identify and account for these unquantified costs in their analyses. NEPA analysis is not a cost-benefit exercise, but rather requires identification and discussions of all reasonably foreseeable effects.<sup>69</sup> Even if an impact cannot be quantified, it should still be disclosed, contextualized, and discussed so as to inform a reasoned decision. Furthermore, we recommend that the Guidance provide information on how federal agencies can use resilience metrics and monetization of ecosystem services as part of providing context for emissions.

Third, the Guidance should specify that even where a project will have overall net beneficial SC-GHG effects (i.e., reductions in the social costs of climate change impacts), agencies must balance these benefits with the project’s other potentially more localized environmental and public health impacts, such as impacts to local air quality, disparate impacts on underserved communities, and ecosystem impacts, as discussed further in Section III.1. To this end, the Guidance should affirmatively state that monetized factors should not take precedence or be elevated above non-monetized factors such as community and ecosystem health. As part of this contextual analysis of greenhouse gas emissions, the Guidance should direct agencies to consider environmental and racial justice impacts, including past disparate and cumulative impacts, as part of its contextual analysis.

Finally, the Guidance should remind agencies of their obligation to obtain the information necessary to provide the context for a project’s greenhouse gas emissions or explain why they cannot do so, where such information is currently lacking.<sup>70</sup>

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<sup>68</sup> Union of Concerned Scientists, *National Landmarks at Risk: How Rising Seas, Floods, and Wildfires Are Threatening the United States’ Most Cherished Historic Sites*, at 4-32, 36-40, 44 (2014).

<sup>69</sup> See also OMB Circular A-4 (Sept. 17, 2003) at 2, which guides agencies conducting cost-benefit analyses, highlighting the importance of identifying significant non-quantified impacts, stating “[i]t will not always be possible to express in monetary units all of the important benefits and costs . . . . If the non-quantified benefits and costs are likely to be important, you should carry out a ‘threshold’ analysis to evaluate their significance . . . . [Y]ou should indicate, where possible, which non-quantified effects are most important and why.”

<sup>70</sup> See 40 C.F.R. § 1502.21 (2022). To the extent CEQ’s upcoming Phase 2 Rule revises this regulation, the States ask that CEQ direct agencies to comply with their obligations as codified in the Phase 2 Rule.

c. Considering Reasonable Alternatives Is Critical to Thorough Environmental Review (Guidance Section IV(C)).

The States support CEQ’s emphasis in Section IV(C) of the Guidance on the central role that the alternatives analysis, including detailed analysis of the no-action alternative, plays in informed decision making under NEPA.<sup>71</sup> Courts interpreting NEPA and its implementing regulations have long recognized that the alternatives analysis is the “heart” of an EIS.<sup>72</sup> A NEPA review that fails to consider reasonable alternatives wastes taxpayer dollars, risks increased litigation and delays, and—most importantly—ignores creative, efficient, and beneficial alternatives to a proposed action. In the context of greenhouse gas emissions and climate impacts, as the Guidance observes, “[c]onsidering reasonable alternatives, including alternatives that avoid or mitigate GHG emissions, is fundamental” to NEPA.<sup>73</sup>

The States strongly agree that NEPA requires federal agencies to identify and analyze alternatives to the proposed action that will eliminate or reduce the actions’ environmental harms.<sup>74</sup> As CEQ explains in the Guidance, “[a]gencies make better informed decisions by comparing relevant greenhouse gas emissions, greenhouse gas emission reductions, and carbon sequestration potential across reasonable alternatives, assessing trade-offs with other environmental values, and evaluating the risks from or resilience to climate change inherent in a proposed action and its design.”<sup>75</sup> To fulfill NEPA’s informed-decision making and alternatives analysis requirements, the Guidance correctly directs federal agencies considering fossil fuel projects to analyze in detail reasonable alternatives with lower greenhouse gas emissions, including reasonable clean energy alternatives.<sup>76</sup>

The Guidance should be strengthened by indicating that consideration of reasonable clean energy alternatives is appropriate and necessary for most fossil fuel projects. If CEQ encourages agencies in this context to determine which alternatives

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<sup>71</sup> 88 Fed. Reg. at 1203.

<sup>72</sup> See, e.g., *Wildearth Guardians v. U.S. Bureau of Land Mgmt.*, 870 F.3d 1222, 1226 (10th Cir. 2017) (citing 40 C.F.R. § 1502.14); *Navajo Nation v. U.S. Forest Serv.*, 479 F.3d 1024, 1054 (9th Cir. 2007) (same); Nat’l Env’tl Policy Act Implementing Regulations Revisions, Notice of Proposed Rule, 86 Fed. Reg. 55757, 55,760 (Oct. 7, 2021) (recognizing the importance of considering appropriate alternatives to “meet the policies and responsibilities set forth in NEPA.”).

<sup>73</sup> *Id.*; see also *Ctr. for Biological Diversity*, 538 F.3d at 1219 (holding environmental analysis violated NEPA where it did not consider reasonable alternative fuel economy standards that would conserve more energy).

<sup>74</sup> 88 Fed. Reg. at 1203.

<sup>75</sup> *Id.* at 1203-04.

<sup>76</sup> *Id.* at 1204.

are “technically and economically feasible,”<sup>77</sup> then the Guidance should also provide more information and examples about such feasibility determinations to ensure that agencies still consider the “reasonable range of alternatives” that NEPA requires. Otherwise, agencies may use these criteria to exclude consideration of reasonable alternatives such as emerging clean energy technologies and unduly or unlawfully narrow the scope of analysis.

CEQ should also provide additional guidance for agencies on the development and consideration of reasonable mitigation measures that could be employed to reduce greenhouse gas emissions and climate impacts, including mitigation measures that reduce harms to communities with environmental justice concerns.

As noted above, CEQ should also direct agencies to consider state, Tribal, and local climate change laws, commitments, and goals when developing alternatives and mitigation measures and to identify where certain alternatives are inconsistent with state, Tribal, and local efforts to lower emissions, reduce climate change impacts, and address disparate impacts from climate change. Particularly where a proposed action conflicts with federal, state, Tribal, or local climate change laws, commitments, and goals, CEQ should direct federal agencies to consider at least one action alternative that better aligns with those efforts.<sup>78</sup>

The Guidance should be further strengthened by directing agencies to ensure that their purpose and need statements are not crafted so narrowly as to arbitrarily and unlawfully exclude consideration of reasonable alternatives, including alternatives with lower greenhouse gas emissions or other mitigation measures that will reduce an action’s climate harms. Such overly narrow purpose and need statements violate NEPA and undermine informed decision making.<sup>79</sup> Consistent with CEQ’s recent observation that factors relevant to the development of a purpose and need statement may include “national, agency, or other policy objectives applicable to a proposed action” and “desired conditions on the landscape or other environmental outcomes,”<sup>80</sup> CEQ should direct federal agencies to consider national, state, Tribal, and local efforts on climate change as relevant factors in developing the purpose and need statement for a project to ensure federal agencies do not unlawfully

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<sup>77</sup> *Id.*

<sup>78</sup> See 42 U.S.C. § 4332(2)(C), (E), (G); 40 C.F.R. § 1506.2.

<sup>79</sup> See National Environmental Policy Act Implementing Regulations Revisions, Final Rule (Phase I Rule), 87 Fed. Reg. 23453, 23459 (Apr. 20, 2022) (“It is contrary to NEPA for agencies to contrive a purpose so slender as to define competing reasonable alternatives out of consideration (and even out of existence.”) (cleaned up) (quoting *Simmons v. U.S. Army Corps of Engineers*, 120 F.3d 664, 666 (9th Cir. 1997)); see also 42 U.S.C. § 4332(2)(E).

<sup>80</sup> Phase I Rule, 87 Fed Reg. at 23,458.

foreclose consideration of reasonable alternatives that may have lower greenhouse gas emissions and climate impacts.

d. NEPA Requires an Accurate Baseline for Considering Environmental Effects (Guidance Section IV(D)).

Establishing an accurate and relevant baseline is critical to a meaningful greenhouse gas emissions analysis of a proposed action. An improper baseline may obscure and improperly minimize the contribution of greenhouse gas emissions from a proposed action. Accordingly, the States agree with CEQ's Guidance directing that a NEPA review must identify the area affected by a proposed action (including reasonably foreseeable environmental and climate change trends), the current and future state of the environment under the no-action alternative, and an accurate estimate of greenhouse gas emissions without the proposed action.<sup>81</sup> The States also support requiring agencies to consider the full lifetime of the proposed action and its effects when setting the temporal bounds for the baseline (i.e., no action alternative) and analysis of the proposed action.<sup>82</sup>

To achieve this analysis and clarify the requirement, we recommend that the Guidance specify that an action's lifetime action be defined to include the full lifecycle of associated upstream and downstream emissions where relevant. Court decisions have held that analysis of greenhouse gas emissions should account for the reasonably foreseeable lifetime emissions of an action.<sup>83</sup> Additionally, many state and local climate laws, policies and programs count the full lifecycle upstream and downstream emissions in making certain determinations. Therefore, accounting for all relevant emissions is needed to assess consistency with state and local climate goals and emissions reduction targets.<sup>84</sup> The Guidance should clearly state that the lifetime of an action encompasses the full lifecycle of its upstream and downstream emissions and effects, including under projected future climate conditions.

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<sup>81</sup> 88 Fed. Reg. at 1204.

<sup>82</sup> *Id.*

<sup>83</sup> See *Diné Citizens Against Ruining Our Env't*, 59 F.4th at 1043; *Ctr. for Biological Diversity*, 538 F.3d at 1216 ("The impact of greenhouse gas emissions on climate change is precisely the kind of cumulative impacts analysis that NEPA requires agencies to conduct.").

<sup>84</sup> See, e.g., N.Y. Dep't of Env'tl. Conserv., Program Policy DAR-21: The Climate Leadership and Community Protection Act & Air Permit Applications, at 1-2 (Dec. 14, 2022) (citing N.Y. Env'tl. Conserv. L. § 75-0101(13)), [https://www.dec.ny.gov/docs/air\\_pdf/dar21.pdf?source=email](https://www.dec.ny.gov/docs/air_pdf/dar21.pdf?source=email); N.Y. Dep't of Env'tl. Conserv., Commissioner Policy CP-49, at 5.

The Guidance should also be strengthened by further elaborating on, including by providing illustrative examples, the definition of the affected environment and no action alternative. The Guidance states that “an accurate estimate of [greenhouse gas] emissions without the proposed action should be included in a NEPA review.”<sup>85</sup> This directive could be clarified in at least two ways.

First, the Guidance should better identify the scale of emissions if the agency pursued the no action alternative, preferably by reference to an identifiable state, Tribal, local, or national legal mandate, target, or goal. For example, a federal agency could estimate what a state’s greenhouse gas emissions would be without the proposed action, referring to an identified state emissions reduction goal or requirement.

Second, the Guidance should provide more information and examples as to the relevant comparative situation or situations, especially where the proposed action does not plainly substitute one activity with identified greenhouse gas emissions for another. For example, a federal agency’s action replacing existing equipment with new equipment may provide a relatively straightforward existing condition to compare emissions between the proposed action and no action alternative. But a federal agency undertaking a new initiative with no obvious predecessor program should also provide an accurate estimate of greenhouse gas emissions under a no action alternative. We recommend that the Guidance provide more examples and discussion of the relevant status quo or no action alternative whose emissions should be estimated.

- e. Agency Analysis of Direct and Indirect Effects Must Include All Reasonably Foreseeable Greenhouse Gas Emissions (Guidance Section IV(E)).

NEPA requires agencies to consider all reasonably foreseeable direct, indirect and cumulative effects of a proposed action, including all reasonably foreseeable greenhouse gas emissions.<sup>86</sup> Informed decision making is simply not possible under NEPA without an adequate quantification of reasonably foreseeable emissions.<sup>87</sup> Among other things, such “[q]uantification would permit the agency to compare the emissions from [a] project to emissions from other projects, to total emissions from the state or the region, or to regional or national emissions-control goals.”<sup>88</sup>

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<sup>85</sup> 88 Fed. Reg. at 1204.

<sup>86</sup> See 42 U.S.C. § 4332(2)(C).

<sup>87</sup> See *Sierra Club*, 867 F.3d at 1374.

<sup>88</sup> *Id.*

The States strongly support the Guidance directing agencies to comply with this core NEPA mandate by considering all reasonably foreseeable greenhouse gas emissions. Reasonably foreseeable effects are “sufficiently likely to occur [such] that a person of ordinary prudence would take them into account in reaching a decision.”<sup>89</sup> The Guidance correctly directs agencies to consider direct and indirect greenhouse gas emissions, stating that “[i]ndirect effects generally include reasonably foreseeable emissions related to a proposed action that are upstream or downstream of the activity resulting from the proposed action.”<sup>90</sup>

While the States recognize that agencies generally apply a “rule of reason,” as discussed in the Guidance,<sup>91</sup> the Guidance could be clarified to discourage agencies from unreasonably limiting their environmental reviews based on a misunderstanding of the rule of reason. To ensure full compliance with NEPA’s environmental review mandate, the States recommend that the Guidance provide more examples of projects where it would be reasonable and consistent with NEPA for agencies to engage in a less detailed environmental review. The Guidance provides a general example that “actions with only small GHG emissions may be able to rely on less detailed emissions estimates.”<sup>92</sup> We encourage more examples of projects that would fall within this example, both to facilitate application of the rule of reason consistently and appropriately and also to discourage agencies from unreasonably using this provision to avoid review. In addition, the Guidance suggests that the rule of reason may counsel in favor of less detailed environmental review for proposed actions intended to reduce greenhouse gas emissions, such as clean energy projects, stating that “[a]bsent exceptional circumstances, the relative minor and short-term GHG emissions associated with construction of certain renewable energy projects, such as utility-scale solar and offshore wind, should not warrant a detailed analysis of lifetime GHG emissions.”<sup>93</sup> The States generally support efficient review of climate-beneficial actions. However, we request more examples of how agencies should apply a rule of reason when analyzing projects intended to meet climate laws, goals, plans and policies. This would assist those agencies in implementing the Guidance and properly accounting for emissions, while also facilitating climate beneficial projects.

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<sup>89</sup> *Sierra Club*, 867 F.3d at 1371.

<sup>90</sup> 88 Fed. Reg. at 1204.

<sup>91</sup> *Id.* at 1204-05.

<sup>92</sup> *Id.* at 1202.

<sup>93</sup> *Id.*



f. Agencies Must Evaluate the Cumulative Effects of a Project on Greenhouse Gas Emissions and Climate Change (Guidance Section IV(F)).

The States firmly agree that cumulative effects analysis is critical to highlighting the incremental and overlapping impacts of greenhouse gas emissions and associated climate change. As CEQ explains in Section IV(F) of the Guidance, climate change “is inherently cumulative in nature,” and these cumulative climate impacts frequently cause disproportionate impact on overburdened communities.<sup>94</sup> Accordingly, NEPA requires agencies to consider the cumulative impacts of GHG emissions on climate change.<sup>95</sup>

In addition to the recommended analysis, CEQ should strengthen its Guidance by providing further information on how federal agencies should analyze climate change impacts on communities experiencing environmental justice concerns in the context of socio-economic and race equity, and by evaluating the extent to which these communities are already overburdened with adverse environmental and public health impacts, including the polluting effects of greenhouse gases, such as air toxins and increased particulate matter. This analysis of cumulative impacts from co-pollutants, should account for future projected climate conditions, including extreme heat and other changes such as sea level rise and flooding, and discuss how the increased levels of these emissions would affect overburdened communities in those contexts. Agencies simply cannot know the full impact of a project on a community

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<sup>94</sup> *Id.* at 1206.

<sup>95</sup> *See Ctr. for Biological Diversity*, 538 F.3d at 1217 (“The fact that climate change is largely a global phenomenon that includes actions that are outside of [the agency’s] control . . . does not release the agency from the duty of assessing the effects of its actions on global warming within the context of other actions that also affect global warming.”) (cleaned up); *see also* Exec. Order 14,008, 86 Fed. Reg. 7619 (Jan. 27, 2021) (directing federal agencies to “secure environmental justice and spur economic opportunity for disadvantaged communities that have been historically marginalized and overburdened by pollution and underinvestment”); Exec. Order 13,985, 86 Fed. Reg. 7009 (Jan. 25, 2021) (directing all federal agencies to “work to redress inequities in their policies and programs that serve as barriers to equal opportunity”); Exec. Order 13,990, 86 Fed. Reg. 7037 (Jan. 25, 2021) (directing all executive departments and agencies to address any actions that conflict with goal of prioritizing environmental justice, among other national objectives); Exec. Order 13,563, 76 Fed. Reg. 3821 (Jan. 21, 2011) (directing agencies to select regulatory approaches that maximize net benefits including “distributive impacts[] and equity”); Exec. Order 12,898, 59 Fed. Reg. 7629 (Feb. 16, 1994) (directing each federal agency to “make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations”); Exec. Order 12,866, 51 Fed. Reg. 51,735 (Oct. 4, 1993) (ordering agencies to consider “distributive impacts[] and equity” in designing regulations).

without considering the existing levels of pollution and the cumulative impacts in the community of adding another pollution source.

Accordingly, CEQ should strengthen the Guidance by instructing agencies how to conduct analysis in a manner that ensures that federal NEPA reviews identify and disclose the full scope of potential impacts to communities, particularly overburdened communities. To make the Guidance meaningful and accessible to impacted communities, CEQ should direct agencies on how to employ consistent frameworks and methodologies across analyses, and as noted below, should clarify how and when in the process agencies should utilize existing federal agency tools. These tools include—but are not limited to—CEQ’s Environmental Justice Guidance,<sup>96</sup> Executive Order 12898, Executive Order 14008, EPA’s EJ Screen 2.0 and CEQ’s Climate and Economic Justice Screening Tool. For example, CEQ could recommend that agencies use the Climate and Economic Justice Screening Tool to identify the overburdened communities that may be impacted by an agency action, as the agencies initiate their environmental review process under NEPA.

g. Agencies Must Conduct a Holistic Analysis of Short- and Long-Term Effects (Guidance Section IV(G)).

The States support the Guidance’s discussion in Section IV(G) that agencies consider progressive stages of proposed actions and alternatives to capture the emissions from the reasonably foreseeable lifetime of an action.<sup>97</sup> For example, agencies should consider greenhouse gas emissions from construction, operation and maintenance phases, each of which may have distinct emissions profiles and durations.

We urge, however, that the Guidance clarify this discussion to ensure that agencies do not take it as a suggestion to only consider one stage of a project at a time, effectively segmenting greenhouse gas emissions review of a project.<sup>98</sup> We understand the goal of this portion of the Guidance to be encouraging holistic review of the greenhouse gas emissions from a project’s various stages together, not dilute review of overall impacts by encouraging segmentation.

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<sup>96</sup> CEQ, Environmental Justice: Guidance Under NEPA (1997), <https://www.energy.gov/nepa/ceq-guidance-documents>.

<sup>97</sup> 88 Fed. Reg. at 1206.

<sup>98</sup> See *Swain v. Brinegar*, 542, F.2d 364, 368-69 (7th Cir. 1976) (finding improper segmentation; “although the individual environmental impact might be slight, the cumulative consequences could be devastating.”); see generally *Coal. on Sensible Transp., Inc. v. Dole*, 826 F.2d 60, 68 (D.C. Cir. 1987) (“Agencies may not evade their responsibilities under NEPA by artificially dividing a major federal action into smaller components, each without ‘significant’ impact.”).

h. Agencies Must Evaluate Meaningful Mitigation Measures to Avoid or Reduce GHG Emissions (Guidance Section IV(H)).

The States agree with the discussion in Guidance Section IV(H) that NEPA requires agencies to consider mitigation measures for impacts that cannot be avoided or minimized to reduce an action’s greenhouse gas emissions and climate impacts.<sup>99</sup>

The States recommend that CEQ provide examples and other resources for agencies to analyze mitigation measures to reduce an action’s emissions and climate impacts. For example, effective mitigation measures could include implementing methods to conserve energy and water, strategies to sequester carbon to offset emissions from an action, measures to promote climate resiliency or adaptation, or other measures that lessen project emission or impacts. Consideration of such mitigation should also strive to align with adopted climate laws, policies and programs in the state, Tribe or municipality where the action or its effects will occur.

We acknowledge that emissions trading programs, carbon credits, and offsite mitigation may be considered in certain circumstances. We think such mitigation measures are most appropriately considered where they are consistent with national, state, Tribal and municipal programs and goals and when an action and its alternatives will have significant greenhouse gas emissions, particularly when no other alternatives are feasible.<sup>100</sup> We caution, however, that these measures may not mitigate—and indeed may exacerbate—the impacts of more localized air pollution on nearby communities, including communities that are already overburdened by air pollution. Where agencies consider emission trading programs as a climate mitigation measure, CEQ should make clear that the agencies should also consider mitigation measures or other alternatives that will reduce or eliminate direct air quality harms to nearby affected communities and should analyze the environmental justice impacts of each mitigation measure considered.

i. Agencies Should Consider Biological Greenhouse Gas Sources and Sinks (Guidance Section IV(I)).

As the Guidance discusses in Section IV(I), some greenhouse gas emissions are related to the natural carbon cycle or result from processing of biologically based materials such as timber.<sup>101</sup> These types of emissions occur in addition to those

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<sup>99</sup> 88 Fed. Reg. at 1206; *Robertson v. Methow Valley Citizens Council*, 490 U.S. 332, 350-52 (1989) (explaining that NEPA’s action-forcing provisions require “a detailed discussion of possible mitigation measures”).

<sup>100</sup> Cal. Air Res. Bd., 2022 Scoping Plan, App’x D (Local Actions), <https://ww2.arb.ca.gov/resources/documents/2022-scoping-plan-documents>.

<sup>101</sup> 88 Fed. Reg. at 1207.

generated by fossil fuel extraction and use. Biogenic emissions are particularly prone to occur when federal agencies are making land and resource management decisions. The States agree that federal agencies should consider the net change in greenhouse gas emissions and carbon stocks as part of calculating lifestyle greenhouse gas emissions where relevant.<sup>102</sup> We recommend that the Guidance make clear that agencies should consider the timing of biogenic emissions and the timing of any increase in carbon sequestration. Federal agencies should assess these impacts when an action will affect existing landcover types, such as clearance of grasslands or forest lands as well as other development or land management actions. We recommend strengthening the Guidance to discuss the importance of using appropriate and reliable information sources, such as studies and established datasets on carbon storage capacity of the region under review and similar information from comparable ecoregions, i.e., the areas where ecosystems (and thus likely biogenic carbon sinks) are generally similar.<sup>103</sup> Otherwise, projects risk making assumptions about rates of greenhouse gas emissions or removal that may be incorrect or misleading.

j. Agencies Should Broadly Define the Affected Environment when Considering Effects of Climate Change on a Proposed Action (Guidance Section V(A)).

The States support defining the affected environment as the reasonably foreseeable affected environment and the temporal bounds of an action as the expected life of the action and its effects.<sup>104</sup> As discussed above related to baseline considerations, however, we recommend including additional examples to illustrate this point.

We further recommend that the Guidance direct agencies to consider the increasing risk posed by climate change as it progresses. The Guidance should address best practices for assessing and comparing the range of impacts expected to occur under different emissions and global temperature rise scenarios.<sup>105</sup> For example, agencies should consider how the incidence of flooding may affect projects constructed near shorelines more severely in a few decades than in the immediate term and the severity of impacts may vary depending on the degree of warming that occurs. Similarly, agencies should consider how the property losses associated with wildfires are projected to increase in coming decades because climate change is predicted to increase the frequency and size of fires, and also many more people will

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<sup>102</sup> *Id.*

<sup>103</sup> See EPA, Ecoregions, <https://www.epa.gov/eco-research/ecoregions>.

<sup>104</sup> 88 Fed. Reg. at 1208.

<sup>105</sup> *Id.*

have moved into fire-prone locations.<sup>106</sup> Analysis of these impacts should consider a reasonable range of emissions and global temperature scenarios, which may determine the magnitude of longer term effects.<sup>107</sup> The Guidance could be strengthened to provide examples of how agencies should account for these scenarios and the unfolding of effects over time.

k. Agencies Should Use the Best Available Science and Data to Assess Present and Future Impacts, Resilience and Adaptation (Guidance Sections V(C) and V(D)).

The States support the Guidance's directive that agencies consider the most current reports on climate impacts, including national climate assessments.<sup>108</sup> For the United States, the existing 2018 Fourth National Climate Assessment, while still valuable, will be updated by the Fifth National Climate Assessment in 2023, and therefore will provide timely information as agencies implement this Guidance. Similarly, the Intergovernmental Panel on Climate Change continues to report on updated climate change models and projections, with a sixth assessment synthesis report released in March of 2023.<sup>109</sup> Agencies should reference the most recent reports and projections in preparing NEPA documents.

In addition, the States recommend that the Guidance direct agencies also to consider more specific regional or state-level estimates, such as rainfall and sea level rise projections relevant to the specific project site. For effects such as increased precipitation (and its associated impacts of increased flooding, stormwater runoff, waterbody turbidity, etc.), the regional and local projections may be more relevant and useful for agencies' NEPA analysis and ultimately project design and adaptation. For example, the Northeast Regional Climate Center offers several valuable climate change resources such as information on increasing extreme precipitation events<sup>110</sup>

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<sup>106</sup> Sleeter, B.M., T. Loveland, G. Domke, N. Herold, J. Wickham, and N. Wood, 2018: Land Cover and Land-Use Change. In *Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II* [Reidmiller, D.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, K.L.M. Lewis, T.K. Maycock, and B.C. Stewart (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, pp. 214-215. doi: 10.7930/NCA4.2018.CH5, <https://nca2018.globalchange.gov/chapter/5/>.

<sup>107</sup> *Id.* at 215.

<sup>108</sup> 88 Fed. Reg. at 1208.

<sup>109</sup> Intergovernmental Panel on Climate Change, AR6 Synthesis Report: Climate Change 2023, <https://www.ipcc.ch/report/sixth-assessment-report-cycle/>.

<sup>110</sup> Northeast Regional Climate Center, Recent Extreme Precipitation Changes in the Northeast U.S., <https://precipchange.nrcc.cornell.edu/>.

and updated Intensity Duration Frequency Curves for New York State.<sup>111</sup> These data and projections are intended to downscale outputs from global climate models such as the work of the Intergovernmental Panel on Climate Change to regional and state-level planning tools. Where the Intergovernmental Panel's most recent Sixth Assessment gives a fairly wide range of increased precipitation on land through the end of the 21st century,<sup>112</sup> the Northeast Regional Climate Center provides actual rainfall distribution curves that can be incorporated into state and local climate change adaptation planning in New York State. As state and local governments and private project sponsors increasingly rely on these localized resources, federal agencies should do the same. Federal agencies' analysis of the effects of climate change on their proposed actions and alternatives would be much stronger and more accurate if they consider these more granular analyses directed at areas of particular local and regional concern in addition to national and international assessments.

The States also support the Guidance's directive to consider appropriate resilience and adaptation measures such as state, Tribal or local adaptation plans.<sup>113</sup> The Guidance should highlight consideration of appropriate measures to ensure both resilience of the project and avoidance of harmful effects to public health and safety, natural resources, and infrastructure under projected future climate conditions. Many state-level plans incorporate equity objectives to ensure that climate adaptation does not exacerbate past discrimination, but instead may address it. Similarly, we support the directive to incorporate environmental justice principles and robust community engagement around GHG emissions and climate impacts<sup>114</sup> to consider whether the effects of climate change, when associated with other effects of

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<sup>111</sup> Northeast Regional Climate Center, Intensity Duration Frequency Curves for New York State: Future Projections for a Changing Climate, <https://ny-idf-projections.nrcc.cornell.edu/index.html>.

<sup>112</sup> Lee, J.-Y., J. Marotzke, G. Bala, L. Cao, S. Corti, J.P. Dunne, F. Engelbrecht, E. Fischer, J.C. Fyfe, C. Jones, A. Maycock, J. Mutemi, O. Ndiaye, S. Panickal, and T. Zhou, 2021: Future Global Climate: Scenario-Based Projections and Near-Term Information. In Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Delmotte, V., P. Zhai, A. Pirani, S.L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M.I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J.B.R. Matthews, T.K. Maycock, T. Waterfield, O. Yelekçi, R. Yu, and B. Zhou (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 556, doi:10.1017/9781009157896.006, [https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC\\_AR6\\_WGI\\_Chapter04.pdf](https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC_AR6_WGI_Chapter04.pdf).

<sup>113</sup> 88 Fed. Reg. at 1208.

<sup>114</sup> *Id.* at 1209.

a proposed action, may result in disproportionate impacts on communities with environmental justice concerns.

1. The Guidance Makes Great Strides to Elevate the Thorough Analysis of Environmental Justice Concerns, But Should be Further Strengthened (Guidance Sections V(B) and VI(E)).

To advance environmental justice, federal agencies must center, elevate, and thoroughly analyze environmental justice impacts throughout their NEPA analyses. The States strongly agree with the Guidance that environmental justice is a critical issue that must be considered early and often in the NEPA process.<sup>115</sup> The States also support the Guidance’s recognition that climate change often exacerbates environmental justice impacts, including cumulative impacts. We therefore recommend more strongly linking this analysis of the effects of climate change on environmental justice communities to agencies’ cumulative impacts analysis.

As the Guidance notes, climate change raises significant environmental justice concerns because it will have disproportionate and adverse public health and environmental impacts in communities of color, low-income communities, and Tribal Nations and Indigenous communities.<sup>116</sup> Accordingly, “[u]nderstanding the comparative risks to vulnerable populations is critical for developing effective and equitable strategies for responding to climate change.”<sup>117</sup>

But a focus on climate change effects alone is not enough. Communities most affected by climate change are also often those that face immediate and significant impacts from localized adverse air quality and other environmental harms that must also be addressed as part of the detailed environmental review required by NEPA. As part of the Guidance, CEQ should ensure that federal agencies analyze, disclose, and seek to mitigate both disproportionate climate impacts and other disproportionate impacts in their environmental reviews. In addition to instructing federal agencies to “regularly engage with environmental justice experts,”<sup>118</sup> CEQ should provide clarity on how and when in the process agencies should utilize existing federal agency tools, including CEQ’s Environmental Justice Guidance,<sup>119</sup> Executive Order 12898, Executive Order 14008, Executive Order 14091, EPA’s EJ Screen 2.0 and CEQ’s

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<sup>115</sup> *Id.* at 1211.

<sup>116</sup> *Id.* at 1197.

<sup>117</sup> EPA, Climate Change and Social Vulnerability in the United States: A focus on Six Impacts, at 9 (Sept. 2021), [Climate Change and Social Vulnerability in the United States: A Focus on Six Impacts \(epa.gov\)](#).

<sup>118</sup> 88 Fed. Reg. at 1211.

<sup>119</sup> CEQ, Environmental Justice: Guidance Under NEPA (1997), available at [https://www.epa.gov/sites/default/files/2015-02/documents/ej\\_guidance\\_nepa\\_ceq1297.pdf](https://www.epa.gov/sites/default/files/2015-02/documents/ej_guidance_nepa_ceq1297.pdf).



Climate and Economic Justice Screening Tool. This would ensure consistency and reduce confusion among stakeholders and the public, particularly in states without defined criteria for disadvantaged communities. The States recommend that in states with established criteria for identifying disadvantaged communities, that NEPA reviews consider those state criteria to avoid confusion.

As the Guidance observes, early consideration of climate and environmental justice impacts ensures that agencies properly determine the scope of the project and consider a full range of alternatives and mitigation measures.<sup>120</sup> In order to meet these aims, the Guidance should more explicitly recommend that agencies develop and consider alternatives and mitigation measures that minimize climate impacts to environmental justice communities. To do so effectively, agencies should incorporate environmental justice principles throughout their NEPA reviews. In particular, the Guidance should direct agencies to analyze environmental justice impacts as part of their detailed review of alternatives and mitigation measures.

Federal agencies must also promote meaningful community participation in the NEPA process. As a statute that prioritizes public participation, NEPA is well-tailored to advance environmental justice and incorporate the impacted community into the decision-making process but it takes concentrated time and effort by federal agencies to make meaningful public participation a reality. To facilitate meaningful public participation, the Guidance should provide more precise instructions to federal agencies on what it means to “engage” affected communities during the various NEPA stages, starting with scoping and project planning through the end of the environmental review process, and how to incorporate community voices and recommendations in the decision-making process.<sup>121</sup>

The Guidance should also note that our States can be important partners in community engagement, and many States have climate laws and plans that specifically require assessment of environmental justice in this context. For example, New York’s Climate Leadership and Community Protection Act prohibits disproportionately burdening disadvantaged communities in considering and issuing permits, licenses and other approvals (including grants, loans and contracts), and also directs state agencies to prioritize reductions of greenhouse gases and co-pollutants in disadvantaged communities.<sup>122</sup> Similarly, Washington’s Climate Commitment Act prioritizes environmental justice by ensuring that cutting carbon pollution produces health and economic benefits for the communities that bear the

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<sup>120</sup> 88 Fed. Reg. at 1198; Executive Order 14008; Executive Order 12898; <https://www.whitehouse.gov/briefing-room/presidential-actions/2023/02/16/executive-order-on-further-advancing-racial-equity-and-support-for-underserved-communities-through-the-federal-government/>.

<sup>121</sup> See 88 Fed. Reg. at 1211.

<sup>122</sup> N.Y. CLCPA 7(3).



brunt of air pollution today and directing revenue from emissions allowance auctions to address air quality issues in these communities and to advance health and environmental equity statewide.<sup>123</sup> To implement these directives and their broad commitment to environmental justice, many of our state agencies have best practices on community engagement with an emphasis on advancing environmental justice.<sup>124</sup> For example, coordinating federal and state outreach on projects with overlapping authorities can also help to avoid confusion about which entity has authority over which aspect of the project and to reduce the burden on community to participate in multiple agency processes.

To facilitate meaningful engagement, the Guidance should also recommend that federal agencies translate key greenhouse gas and climate impact analyses into the language(s) used by local communities. These translations would promote the ability of non-English speaking communities to engage in the NEPA process and communicate NEPA documents and correspondence through a medium accessible to those communities. Particularly for technical issues like greenhouse gas emissions and climate impacts, agencies should provide information in plain language that is accessible to the general public and the impacted communities. The Guidance should further instruct federal agencies to hold public meetings early and often during the planning and environmental review process at times and places that facilitate community participation, including multiple options during daytime and evening hours and options for both remote and telephonic participation. To further advance environmental justice in the entire NEPA process, CEQ should consider incorporating some or all of these measures in its upcoming Phase 2 Rule revising its NEPA regulations.

Thank you for your work on the Guidance and for your consideration of these comments.

Respectfully submitted,

*Signatures contained on pages 34-38*

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<sup>123</sup> See generally Wash. Rev. Code 70A.65; see also WA Dep't of Ecology, The Climate Commitment Act: Washington's path to carbon-neutrality by 2050 (Feb. 18, 2022), <https://ecology.wa.gov/Blog/Posts/February-2022/The-Climate-Commitment-Act-Washington-s-Path-to-Ca>.

<sup>124</sup> See, e.g., [https://opr.ca.gov/docs/20190717-Community\\_Engagement\\_Best\\_Practices.pdf](https://opr.ca.gov/docs/20190717-Community_Engagement_Best_Practices.pdf).

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