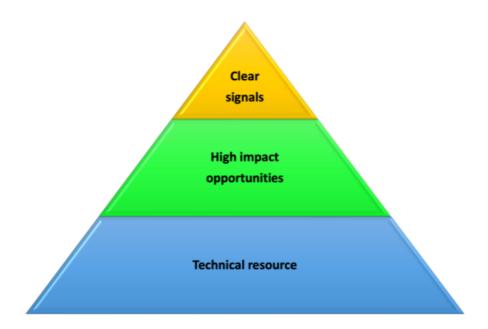


A Solutions-Oriented Approach to the Global Stocktake

- To add real value and make a difference, the global stocktake (GST) process must send clear and specific signals as to what Parties and non-Party stakeholders (NPS) should do after COP28 in order to achieve the goals of the Paris Agreement and avoid catastrophic climate change that is beyond our adaptive capacity.
- 2. While the GST is a unique opportunity to deliver insights that will inform enhanced nationally determined contributions (*NDCs*), an effective GST will also need to reach beyond the UN climate architecture to catalyze effective ambitious action and implementation.
- 3. In that context, GST outputs could usefully be conceptualized in three tiers:
 - a limited number of high-level **clear signals/high level asks** that catalyze the shift of the global economy towards the achievement of the goals of the Paris Agreement;
 - a defined set of specific, available and implementable high impact opportunities to enhance and implement ambition. These must speak to constituencies (such as national level policy makers and NPS) best placed to convert the signals/high level asks into action. These opportunities should be supported by accessible and scaled up means of implementation; and
 - a consolidated **technical resource** that Parties and NPS can draw on when developing and implementing climate action, consistent with the goals of the Paris Agreement.





- 4. This submission focuses on the top two tiers of GST outputs (clear signals and high impact opportunities) and in that context begins to suggest some contours of a package for COP28 across mitigation, adaptation and loss and damage (*L&D*), and means of implementation. The suggestions made are not comprehensive, but rather pick out high-impact, near-term opportunities for action and support. Suggested solutions are intended as global in nature and/or scope, but future work will consider the need for differentiation and support.
- 5. The GST will need to consider cross-cutting issues, like L&D and equity, as well as linkages and co-benefits between these outcomes/solutions, which will be explored through the GST process and also in transition from the technical process to the political phase of the consideration of outputs. C2ES will address these aspects further in future publications.
- 6. This submission is offered as a contribution to the ongoing discussion under the GST and represents work in progress which C2ES will test and further refine with thought leaders and key experts ahead of the conclusion of the GST.²

Mitigation

Signal/high	Reduce methane emissions from the fossil fuel sector by 75% by 2030, by
level ask	
High impact	Setting standards for equipment technology, leak detection and repair,
opportunities/	and flaring and venting.
solutions	
	Measuring and reporting methane emissions.
	Regulating upstream emissions, including by pricing emissions or setting
	performance or procurement standards.

¹ The work prioritizing these outcomes and solutions draws on previous C2ES work, "Distilling Critical Signals from the Global Stocktake," setting out criteria policymakers and decision-makers may wish to consider in prioritizing near-term, high-impact climate action and support. This work also builds on prior work setting out landscape analyses of opportunities for enhance ambition in mitigation, adaptation, and finance. See: https://www.c2es.org/document/mitigation-landscape-analysis-of-adaptation-opportunities-for-climate-ambition/; and https://www.c2es.org/document/climate-finance-landscape-analysis-themes-and-trends/.

This submission acknowledges the many developments since their publication, including but not limited to, new scientific reports, new and expanded international cooperative initiatives, as well as the conduct of the first and second Technical Dialogues of the GST. To the extent possible, these outcomes and solutions take those developments into account.

² To provide feedback please contact <u>HuangJ@c2es.org</u> or <u>guilanpour@c2es.org</u>. For more information on our GST work, please see https://www.c2es.org/content/global-stocktake-an-opportunity-for-ambition/



Signal/high level ask	Increase the share of renewable sources—particularly wind and solar—in global electricity generation, aiming for 55-90% by 2030 and 98-100% by 2050, while simultaneously reducing the share of fossil sources, by
High impact opportunities/ solutions	 Incentivizing the deployment of renewable energy technologies and/or setting renewable energy targets or mandates based on national circumstances.
	 Ending investments in new fossil fuel-based generation capacity and phasing out existing fossil fuel-based generation capacity, in a just and equitable manner, including by pricing or capping emissions from the electricity sector.
	 Addressing regulatory barriers to the deployment, scale up, and use of renewable energy technologies, including grid infrastructure and storage.
	Improving the integration of renewable energy sources into increasingly flexible electricity grids.

Signal/high	Increase the share of electric vehicles (EVs):
level ask	 in light-duty vehicle (LDV) sales to 75-95% by 2030 and 100% by 2035
	 in bus sales and medium- and heavy-duty vehicle sales to 60% and
	30% by 2030, respectively, by
High impact	Incentivizing a shift toward EVs and away from internal combustion
opportunities/	engines through purchase subsidies or mandates, charging discounts,
solutions	regulations that cap emissions or limit emissions intensity, and/or gas
	taxes that reflect the negative impacts of fossil fuel combustion.
	Investing in battery technology improvements and the coordinated
	expansion—and standardization—of charging infrastructure, especially
	on priority routes.
	Phasing out internal combustion engines and tightening of regulatory
	trajectories across key markets in a coordinated way.
	Providing alternatives to vehicles by incentivizing modal shifts and
	expanding viable transportation options, including by investing in
	electrified public transit.
	Implementing strong normative safeguards in mining operations for
	lithium, cobalt, and other critical minerals for renewable energy
	technologies.



Cianal/hiah	Half and recover favor loss and land degradation by 2020 by
Signal/high	Halt and reverse forest loss and land degradation by 2030, by
level ask	
High impact	Conserving healthy, living forests, and supporting the livelihoods of forest
opportunities/	dependent communities, including through large-scale incentive
solutions	programs.
	 Curbing and reversing deforestation and degradation, including by
	expanding conservation areas, instituting moratoria on forest
	conversion, securing tenure and protection of Indigenous territories,
	encouraging sustainable land-use practices, developing sustainable land
	use and management plans, and decreasing pressure from the
	agricultural sector.
	Implementing moratoria on products associated with deforestation and
	providing support for monitoring and verification of deforestation-
	related products.
	 Integrating local communities and civil society in the planning,
	implementation, and monitoring of conservation activities to ensure
	good governance, accountability, rule of law, and the upholding of
	human rights.
Signal/high	Reduce the carbon intensity of building operations, minimize embodied
level ask	emissions, and increase the rate of building retrofits to 3.5% by 2040,
	aiming for all new and existing assets to be net zero across their life cycles
	by 2050, by
High impact	Electrifying energy end-use in buildings and improving energy efficiency
opportunities/	to address "operational" emissions, including by enacting increasingly
solutions	stringent (and/or more broadly applicable) building energy codes and
	appliance performance standards, mandating the use of fossil-free
	energy sources, and/or offering incentives for efficient appliances.
	Adopting green procurement policies or revising construction codes to
	require the purchase of low-carbon construction materials (e.g., low-
	carbon cement).
	Utilizing innovative finance models that reduce up-front costs.
	and



Adaptation and Loss & Damage

Signal/high	Achieve and maintain a climate resilient world by 2030, by
level ask High impact opportunities/	 Establishing a goal to conserve, protect, and restore land and freshwater ecosystems by 2028.
solutions	 Establishing a goal to significantly enhance resilience and reduce exposure for all coastal communities impacted by sea level rise by 2028, including by conserving, protecting, and restoring coral reefs, coastal
	wetlands, mangroves, and kelp forests, and leveraging other nature-based solutions.
	 Establishing a global goal on observation to promote and measure progress by 2028 in the global climate observing system and to strengthen linkages to regional and national climate observing systems.
	• Fostering sustainable agriculture by 2030 including by halving the share of food production lost and per capita food waste, promoting that healthy alternative proteins capture 15% of the global meat and seafood market and increasing 1.5 times the global consumption of fruits, vegetables, seeds, nuts and legumes.

Signal/high	Halt and reverse biodiversity loss by 2030, by
level ask	
High impact	• Protecting 45 million hectares (lands and inland waters), sustainably
opportunities/	manage 2 billion hectares, and restore 350 million hectares of land,
solutions	securing tenure of indigenous and local communities, and using nature-
	based solutions by 2030. These measures should include safeguards to
	protect with biodiversity and human rights safeguards, and instruments
	to improve food and water security and livelihoods.
	• Expanding support for ecosystem stewardship by Indigenous Peoples and
	local communities, including by strengthening legislation surrounding
	land rights for indigenous peoples and local communities according to
	traditional values of land tenure.
	• Enhancing Marine Protected Area (MPA) networks by bolstering national
	legislation for MPAs, incorporating Climate Vulnerability Assessments
	into MPAs, and integrating local communities and Indigenous Peoples in
	the planning and management of MPA networks.
	Enhancing Nature-based Solutions in urban environments.

Signal/high	Strengthen international efforts to improve the assessment and review of
level ask	global progress on adaptation and resilience by 2028



Signal/high level ask	Strengthen international funding arrangements for L&D, by
High impact opportunities/ solutions	 Cooperating to establish mechanisms, means, and strengthening capacity for addressing non-economic and slow onset events, particularly at regional and national levels.
	 Strengthening the preventive approach to disaster risk reduction and humanitarian assistance through coordination and integration with adaptation planning and implementation activities.
Signal/high	Further accelerate efforts to provide scaled up financial resources that
level ask	achieves a balance between adaptation and mitigation
Signal/high	Consider in adaptation planning and implementation process
level asks	interventions that address social inequities, justice and ecological
	vulnerabilities, including by giving appropriate consideration to gender, Indigenous and local knowledge and practice

Means of implementation

Signal/high

Acknowledges the international debt crisis, the need to find new ways of

level ask	financing climate action, as well as improving the quality of international climate finance, by
High impact opportunities/	 Canceling, suspending, or restructuring debt to integrate climate-related needs and actions.
solutions	Increasing the availability of grants and concessional instruments to developing countries.
Signal/high	Urges Parties, MDBs and NPS, in particular financial institutions, to increase
level ask	the proportion of investments in renewable energy and to adopt policy
	frameworks that facilitate this increase, inter alia by phasing out of fossil
	fuel subsidies, while also implementing response mechanisms for a just
	transition in a planned and locally-specific manner, by
High impact	• Increasing the share of global investments in renewable energy by 2030.
opportunities/	Tying fossil fuel subsidies reform to broader economy-wide just transition
solutions	plans, and provide support to developing countries to implement it.
	Enhancing understanding, disclosure and management of climate-related
	financial risks and opportunities by institutional investors and corporate
	actors.
	Streamlining planning permissions, and promote grid connections.



Signal/high	Stresses the need for all Parties to take international and domestic action
level ask	towards shifting finance flows to make them consistent with pathways
	towards low greenhouse gas emissions and climate resilient development
	,
Signal/high	Provide capacity building support to developing countries to align financial
level ask	flows with the Paris Agreement goals
	,
Signal/high	Emphasizes developed country Parties' continuing obligations in the
level ask	provision and mobilization of climate finance to developing countries under
	Article 9 of the Paris Agreement, by
High impact	 Providing capacity building support to developing countries to
opportunities/	operationalize Article 2.1(c), including by putting in place
solutions	monetary/financial policy and regulation, fiscal policy, information
	instruments, public finance and use of different financial instruments.
	 Divesting investments from polluting industries and sectors and scale up
	climate-smart investments.
	 Reviewing and adjusting the investment plans and portfolios of
	multilateral development banks, international financial institutions and
	private investors to align with the 1.5 degrees Celsius limit.