

# The feasibility assessment approach

Climate Technology Progress Report **2024**



# Appendix A

## APPENDIX A: THE FEASIBILITY ASSESSMENT APPROACH

The feasibility assessment approach adopted in this Report builds from SR1.5, AR6 WG2 and WG3 as well as the CTPR 2022 and CTPR 2023 (IPCC, 2022, 2023; UNEP-CCC & UNFCCC-TEC, 2022). Feasibility for the global-level analysis conducted by the IPCC was defined along six dimensions: economic, technological, environmental, geophysical, sociocultural, and institutional. Indicators are then developed for each dimension. Indicators of feasibility within the dimensions are contextual and differ slightly between adaptation and mitigation options, and for adaptation options, between regions. The indicators were selected based on a review of scholarship and expert consultation and had underlying questions to guide the assessment of feasibility, depicted in the third column of table 1 (adaptation) and the second column in table S.1.1 (mitigation). In the AR6 report, for adaptation, the assessment generally focused on whether or not a given indicator was a barrier, and whether or not there was a knowledge gaps. For mitigation, the assessment focused on whether indicators hindered or facilitated implementation. In defining some indicators as facilitators, the mitigation FA recognizes that some options are outperforming the options they aim to replace – e.g. solar PV being cheaper than fossil fuels. Similarly, mitigation options can also have co-benefits – e.g. electric vehicles and solar energy reduce local and regional air pollution – which also increases the potential for a mitigation option to be rapidly implemented and at a larger scale.

A clear line of sight to the underlying evidence and literature was developed for each decision throughout the assessment. This involved carefully tracking the evidence for each option and mapping them onto specific indicators. As per IPCC guidance, confidence language was applied to each assessment based on the amount of, and the level of agreement on, the evidence.

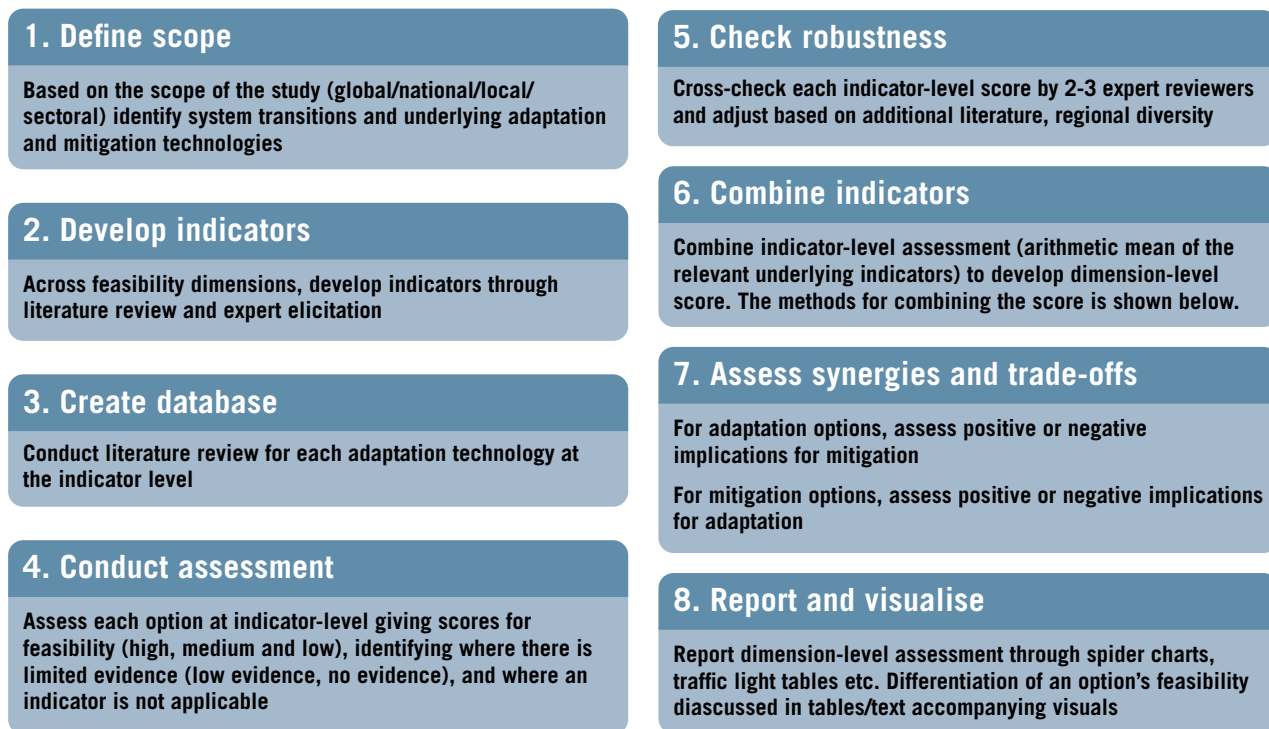
### Combining indicators for an overall feasibility score

Options can also be assigned an overall assessment. In a departure from AR6, both adaptation and mitigation options were assessed in the same method. Each feasibility dimension, overall feasibility was assessed as the arithmetic mean score of the relevant underlying indicators. Based on this, dimensions were classified as having insignificant barriers (2.5–3), mixed or moderate barriers (1.5–2.5) or significant barriers (below 1.5) to feasibility. Indicators assessed as not applicable (NA), limited evidence (LE), or no evidence (NE) were not included in this overall assessment. This mapping process is important for transparency purposes. Moreover, the same combining approach was used to assess the score of indicators grouped together for presentations purposes. This is shown in **Figure S.A.1 and Table S.A.1** below.

**Table S.A.1:** The guidance table from SR1.5

Entry for Indicator-Option Combination	Guidance for Conducting the Feasibility Assessment for Mitigation and Adaptation Options	
NA (not applicable)	The indicator is not relevant to the option	
NE (no evidence)	No peer-reviewed literature could be located supporting an assessment of whether this indicator would limit the option's feasibility The peer-reviewed literature that mentions the issue is not robust enough	
LE (limited evidence)	One or two papers make statements/ present research that could be the basis for the assessment, but this evidence is considered too limited Two or more papers provide a basis for the assessment as a side issue in the paper, not as a core issue	
A	A feasibility assessment can be made: If there are one or two robust papers (or more) that contain references which also support the assessment If literature is plentiful If one or a number of meta-studies and reviews provide extensive treatment of the indicator-option combination	A = The indicator could block the feasibility of this option
B		B = The indicator does not have a positive nor a negative effect on the feasibility of the option
C		C = The indicator does not pose any barrier to the feasibility of this option

Figure S.A.1. Methodology



**Calculating a score for each dimensions**

High feasibility is weighed with a score of 3, medium feasibility with a score of 2 and low feasibility with a score of 1. This formula indicates, based on this weighing, how the composite feasibility of a dimension is obtained. The composite feasibility of an option, across dimensions, is calculated using the same weighing.

**STEP 1**  
How many indicators in one dimension are effective (applicable)?

# effective indicators =  
#indicators - #not applicable

**STEP 2**  
How many indicators have sufficient litterature?

# effective indicators - #NE & LE<sup>1</sup>

**STEP 3**  
Average of the effective indicators with sufficient evidence<sup>2</sup>

$\frac{(1*A + 2*B + 3*C)}{\text{\# effective indicators - \#NE \& LE}}$

**STEP 4**  
Assign category to dimension<sup>3</sup>

Legend of Feasibility Assessment Tables		Legend criteria for overall feasibility of each of the dimension-option combinations
Not applicable		All indicators are NA
Insufficient evidence		#NE & LE > 0.5 * #effective indicators
Low feasibility		AVG ≤ 1.5
Medium feasibility		1.5 < AVG ≤ 2.5 #NE & LE ≤ 0.5 * #effective indicators
High feasibility		AVG > 2.5 #NE & LE ≤ 0.5 * #effective indicators

<sup>1</sup> NA: Non-Applicable, NE: No Evidence, LE: Low Evidence

<sup>2</sup> Low = 1, medium = 2 and high =3 A, B and C represent three hypothetical indicators.

<sup>3</sup> This approach was followed for the adaptation assessment. A similar assessment was followed for mitigation on enablers and barriers, but the dimensions are continuous rather than discrete.

## Ensuring robustness and transparency

All assessments drew on two rounds of internal review to ensure coherence, coverage and balance. Reviews included adding literature and improving the coverage of studies – e.g. to include evidence from Asian countries, peer-reviewed and grey literature – and removing any perceived biases. Each option's indicator-level assessment was validated by at least three authors. If indicator-level assessment differed, it was reconciled between the team of authors based on the literature each individually reviewed. As indicated above, for regional or contextual differences in option-level feasibility, text was used to explain the differentiating factors. Ideally, a systematic review would be conducted to comprehensively document relevant literature. However, when resources or time are limited, semi-systematic assessment approaches could be followed, such as standard practices of literature review – searching databases to achieve reference saturation – followed by careful and iterative reference checking, expert suggestions and internal peer review. The latter was employed for the AR6 reports due to time constraints resulting in assessing several thousand unique references for SR1.5, AR6 Working Group 2 and AR6 Working Group 3. When the process is downscaled at national or subnational level, where references are limited to allow an extensive literature review, the assessment can rely on expert consultations and grey literature.

### Notes on the methodology:

For each of the technologies identified in the chapter, reviews of the literature, government reports, and policy documents post-AR6 were conducted (with a few exceptions of literature prior to 2021 not included in AR6 and how included here) with the goal of identifying whether there were any major changes in the scoring beyond the comprehensive assessment completed in AR6. We did not conduct a full systematic review, but rather it is a scan of the peer-review literature, looking for any major updates and/or systematic reviews that are already available in the literature. As a result, a score that is the same as the one in AR6 may indicate that there was no major change in the literature, thus further emphasizing the results. If the assessment score had not changed with more robust evidence (e.g., a post-AR6 systematic review in the peer review literature), this is reflected in the scoring of robustness and strength of evidence.

It should also be noted that WG2 and WG3 took different approaches to the scoring of the technologies on the indicators. Namely WG2 adopted the SR1.5 approach which develops a single score for overall feasibility. By contrast, WG3 evaluated separately aspects of increasing and decreasing feasibility, arguing that a decision-maker should be able to evaluate the extent to which the environment was supportive and not supportive of a given option. However, the single score approach of WG2 can be easier to interpret for screening across technologies and hence, this approach is adopted here. The details of the scoring are retained in the text.

## REFERENCES:

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# Appendix B

## APPENDIX B: THE FEASIBILITY ASSESSMENT RESULTS

Table S.B.1: WGII regions

Regions Def. AR6	
S/N	WGII
1	Africa
2	Asia
3	Australasia
4	Central and South America
6	Europe
7	North America
8	Small islands

### B.1.2 Hydropower:

Hydroelectric energy production, beyond pumped storage hydropower, continues to play a critical role in the global electric power system, as it has almost since the inception of centralized electric grids. The feasibility assessment focuses on conventional hydroelectric systems, or those that rely on conversion of potential energy into kinetic energy, rather than hydrokinetic or technologies that derive power from the movement of water. Other smaller hydroelectric systems with capacities <5kW (pico) are excluded from consideration due to substantial differences in scales of the technology (i.e., in-home or machine-level applications). We carried out a regional FA for Dams as can be seen below in Figure S.B.1.

### B.1.3: Energy storage

Pumped storage hydropower (PSH) accounts for roughly 90% of total global electricity storage as of 2021 (IEA, 2023). From a global perspective, PSH has an overall medium feasibility. PSH has a medium geophysical feasibility, though the resources are largely limited to areas with moderate to high relief (elevation change) and require large amounts of land. Environmental-ecological feasibility is also medium as using concrete for reservoirs, could negatively affect air quality and the water systems can be prone to periodic eutrophication. PSH has a high technological feasibility, as it is a relatively simple, scalable, and mature technology and is widely deployed across different parts of the world. From the economic dimension, PSH has medium feasibility, owing to high upfront costs, but positive employment and economic growth effects. Socio-cultural feasibility is medium as public acceptance can hinder project development. Institutionally, PSH maintains generally positive political acceptance and few hurdles for coordination but does face legal and administrative challenges, owing to regulatory requirements that can stifle project development. Hydroelectric energy production, beyond pumped storage hydropower, continues to play a critical role in the global electric power system, as it has almost since the inception of centralized electric grids. The feasibility assessment focuses on conventional hydroelectric systems, or those that rely on conversion of potential energy into kinetic energy, rather than hydrokinetic or technologies that derive power from the movement of water. Other smaller hydroelectric systems with capacities <5kW (pico) are excluded from consideration due to substantial differences in scales of the technology (i.e., in-home or machine-level applications).

Regional differences in currently operation PSH and those being constructed or proposed reveal interesting insights. Reasons for regional differences include ease of institutional and regulatory approval, where East Asia has fewer challenges associated with getting projects approved and constructed. Other major differences could be related to financing and environmental impacts. Geophysical feasibility is influenced by the variety of scales and configuration. With few exceptions, the most physically suitable sites (i.e., elevation differences and available flow) for new large hydroelectricity installations have already been developed. Similar to geophysical feasibility, the environmental-ecological feasibility for large impoundment systems is low, while run-of-river, run-of-release (using flows at existing dams), and conduit systems score high feasibility in this category. It is important to note substantial regional variations in the barriers that exist to environmental-ecological feasibility, particularly considering GHGs. Methane and carbon dioxide are emitted from all aquatic systems, including rivers and reservoirs.



## B.2: Feasibility Assessment tables

### ADAPTATION

Dimensions	Adaptation Feasibility Analysis	RESILIENT POWER SYSTEMS		
		Evidence		
		Agreement		
		Dim. Avg	Indicator Score	References (update on AR6)
Geophysical	Physical feasibility	C	N/A	Same as AR6 (no update)
	Hazard risk reduction potential		N/A	Same as AR6 (no update)
	Land use change enhancement potential		C	(Osman et al., 2023)
Environmental-ecological	Ecological capacity	B	B	(Osman et al., 2023)
	Adaptive capacity/ resilience		C	
Technological	Technical resource availability	C	C	(Amini et al., 2023; Khaledi & Saifoddin, 2023; Mujjuni et al., 2023; Paul et al., 2024; Perera & Hong, 2023; L. Xu et al., 2024; Y. Xu et al., 2023)
	Risks mitigation potential		C	
Economic	Socioeconomic vulnerability reduction potential	C	C	Amini et al., 2023; Khaledi & Saifoddin, 2023; Mujjuni et al., 2023; Paul et al., 2024; Perera & Hong, 2023; L. Xu et al., 2024; Y. Xu et al., 2023)
	Employment and productivity enhancement potential		B	
	Microeconomic viability		C	
	Macroeconomic viability		C	
Socio-cultural	Socio-cultural acceptability	C	C	Same as AR6 (no update)
	Social co-benefits (health, education)		C	Same as AR6 (no update)
	Social and regional inclusiveness		C	Same as AR6 (no update)
	Gender equity		B	Same as AR6 (no update)
	Intergenerational equity		B	Same as AR6 (no update)
Institutional	Political acceptability	B	C	Same as AR6 (no update)
	Legal and regulatory acceptability		B	Same as AR6 (no update)
	Institutional capacity and administrative feasibility		B	Same as AR6 (no update)
	Transparency and accountability potential		B	Same as AR6 (no update)

Dimensions	Adaptation Feasibility Analysis	ENERGY RELIABILITY		
		Evidence		References (Update on AR6)
		Agreement		
		Dim. Avg	Indicator Score	
<b>Geophysical</b>	Physical feasibility	N/A	N/A	Same as AR6 (no update)
	Hazard risk reduction potential		N/A	Same as AR6 (no update)
	Land use change enhancement potential		N/A	Same as AR6 (no update)
<b>Environmental-ecological</b>	Ecological capacity	C	NE	Same as AR6 (no update)
	Adaptive capacity/ resilience		C	Same as AR6 (no update)
<b>Technological</b>	Technical resource availability	C	C	(Zhou, 2023)
	Risks mitigation potential		C	
<b>Economic</b>	Socioeconomic vulnerability reduction potential	B	C	(Zhou, 2023)
	Employment and productivity enhancement potential		B	
	Microeconomic viability		C	
	Macroeconomic viability		B	
<b>Socio-cultural</b>	Socio-cultural acceptability	2.75	B	Same as AR6 (no update)
	Social co-benefits (health, education)		C	Same as AR6 (no update)
	Social and regional inclusiveness		C	Same as AR6 (no update)
	Gender equity		NE	Same as AR6 (no update)
	Intergenerational equity		C	Same as AR6 (no update)
<b>Institutional</b>	Political acceptability	2.33	C	(Rickerson et al., 2019)
	Legal and regulatory acceptability		B	
	Institutional capacity and administrative feasibility		B	
	Transparency and accountability potential		NE	

Dimensions	Adaptation Feasibility Analysis	WATER USE EFFICIENCY		
		Evidence		References
		Agreement		
		Dim. Avg	Indicator Score	
Geophysical	Physical feasibility	C	B	Same as AR6 (no update)
	Hazard risk reduction potential		C	Same as AR6 (no update)
	Land use change enhancement potential		C	Same as AR6 (no update)
Environmental-ecological	Ecological capacity	C	C	Same as AR6 (no update)
	Adaptive capacity/ resilience		C	Same as AR6 (no update)
Technological	Technical resource availability	C	C	(Olsson, 2020; Reis et al., 2023)
	Risks mitigation potential		C	
Economic	Socioeconomic vulnerability reduction potential	C	C	(Olsson, 2020; Reis et al., 2023)
	Employment and productivity enhancement potential		NE	
	Microeconomic viability		C	
	Macroeconomic viability		C	
Socio-cultural	Socio-cultural acceptability	Insuf. Evidence	LE	Same as AR6 (no update)
	Social co-benefits (health, education)		LE	Same as AR6 (no update)
	Social and regional inclusiveness		NE	Same as AR6 (no update)
	Gender equity		NE	Same as AR6 (no update)
	Intergenerational equity		NE	Same as AR6 (no update)
Institutional	Political acceptability	B	B	Same as AR6 (no update)
	Legal and regulatory acceptability		LE	Same as AR6 (no update)
	Institutional capacity and administrative feasibility		B	Same as AR6 (no update)
	Transparency and accountability potential		NE	Same as AR6 (no update)

Dimensions	Adaptation Feasibility Analysis	SMART GRIDS (DIGITALIZATION)		
		Evidence		References
		Agreement		
		Dim. Avg	Indicator Score	
Geophysical	Physical feasibility	NA	NA	
	Hazard risk reduction potential		NA	
	Land use change enhancement potential		NA	
Environmental-ecological	Ecological capacity	Insuf.	LE	
	Adaptive capacity/ resilience		LE	
Technological	Technical resource availability	C	C	(Bazazzadeh et al., 2022; Cicilio et al., 2021; Z. Y. Dong & Zhang, 2021)
	Risks mitigation potential		B	(Aghahadi et al., 2024; Babazadeh et al., 2022; Jasiūnas et al., 2021)
Economic	Socioeconomic vulnerability reduction potential	Insuf.	NE	
	Employment and productivity enhancement potential		LE	(Mondejar et al., 2021)
	Microeconomic viability		LE	(S. Kumar et al., 2024)
	Macroeconomic viability		NE	

<b>Socio-cultural</b>	Socio-cultural acceptability	Insuf.	LE	(Jasiūnas et al., 2021)
	Social co-benefits (health, education)		LE	(S. Kumar et al., 2024)
	Social and regional inclusiveness		LE	(Jasiūnas et al., 2021)
	Gender equity		NE	
	Intergenerational equity		NE	
<b>Institutional</b>	Political acceptability	Insuf.	NE	
	Legal and regulatory acceptability		LE	(Z. Y. Dong & Zhang, 2021; S. Kumar et al., 2024)
	Institutional capacity and administrative feasibility		LE	(Babazadeh et al., 2022; S. Kumar et al., 2024)
	Transparency and accountability potential		NE	

## MITIGATION

Dimensions	Mitigation feasibility analysis	SOLAR PV		
		Evidence		References
		Agreement		
		Dim. Avg	Indicator Score	
<b>Geophysical</b>	Physical potential	B	C	(M. M. Islam et al., 2022a; X. Li et al., 2023; Solangi et al., 2021a)
	Geophysical resources		B	(Butterfield & Bullen, 2022; Calvo & Valero, 2022a; Carrara et al., 2020; Liang et al., 2022a; Teixeira et al., 2024)
	Land use		B	(Y. kuang Chen et al., 2022; Ferreras-Alonso et al., 2024; J. Kim et al., 2022a; Oudes & Stremke, 2021)
<b>Environmental-ecological</b>	Air pollution	C	C	(Anwar et al., 2021a; Chien et al., 2021a; Collado et al., 2022; Hamed Banirazi Motlagh et al., 2023a)
	Toxic waste, ecotoxicity, eutrophication		B	(Mahmud & Farjana, 2022; Rabaia et al., 2021; Sharma et al., 2021; Zhang et al., 2023)
	Water quantity and quality		C	(Gonzalez Sanchez et al., 2021; Hadipour et al., 2021a; Mahmud & Farjana, 2022; Pandey et al., 2021)
	Biodiversity		C	(Ascensão et al., 2023; Blaydes et al., 2021; Walston et al., 2024)
<b>Technological</b>	Simplicity	C	B	(Heidari et al., 2022; Hu et al., 2022; Rahmdel et al., 2023)
	Technological scalability		C	(Gómez-Navarro et al., 2021; Jiang et al., 2022; Khan et al., 2023)
	Maturity and technology readiness		C	(Dehghanimadvar et al., 2022; Kougiyas et al., 2021; Powell et al., 2021)
<b>Economic</b>	Costs in 2030 and long term	C	C	(Al-Shahri et al., 2021; Huda et al., 2024; Imam et al., 2024; Liikkanen et al., 2024; Sharshir et al., 2021)
	Employment effects and economic growth		C	(Hanto et al., 2021; Huda et al., 2024; Imam et al., 2024; Nasirov et al., 2021; Silveira et al., 2024)
<b>Socio-cultural</b>	Public acceptance	C	B	(Awuku et al., 2022; Cousse, 2021; Nilson & Stedman, 2022; San-Martín & Elizalde, 2024; L. Tong et al., 2024; D. Wu et al., 2024)
	Effects on health and well-being		C	(Ahmadpour et al., 2021; Beyene et al., 2024; Z. Chen & Sun, 2024; Jaiswal et al., 2022; Karaaslan & Çamkaya, 2022; L'Her et al., 2024; Obaideen et al., 2021; Rivera et al., 2024a; Suman, 2021)
	Distributional effect		C	(Apergi et al., 2024; El-Mekaoui et al., 2024; Hanke et al., 2021; Levenda et al., 2021; Min et al., 2023; Omeje et al., 2024; Sovacool et al., 2022)
<b>Institutional</b>	Political acceptance	B	B	(Cousse, 2021; Kadenic et al., 2024; Pascaris et al., 2021; Ponce Oliva et al., 2024; Rettig & Herman, 2024; Scovell et al., 2024; Stadelmann-Steffen & Dermont, 2021; Torul Yürek et al., 2023)
	Institutional capacity and governance, cross-sectoral coordination		B	(C. Chen et al., 2021; M. M. Islam et al., 2022b; Lerman et al., 2021)
	Legal and administrative feasibility		A	(Heffron et al., 2021; C. Kim, 2021; Nabil et al., 2024; Norouzi et al., 2021; Rodriguez et al., 2024; Santiago et al., 2024; Tahir et al., 2024)

Dimensions	Mitigation feasibility analysis	WIND ENERGY (OFF/ON SHORE)		
		Evidence		References
		Agreement		
		Dim. Avg	Indicator Score	
Geophysical	Physical potential	C	C	(Gualtieri, 2022; McKenna, Pfenninger, et al., 2022a; Neupane et al., 2022; Uwineza et al., 2021; Veers et al., 2022)
	Geophysical resources		C	(Calvo & Valero, 2022a; Z. Chen, 2021; C. Li, Mogollón, Tukker, Dong, et al., 2022; D. Tong et al., 2021; Verma et al., 2022)
	Land use		C	(Frantál et al., 2023; Kati et al., 2021; Lopez et al., 2021; Mathews et al., 2023; McKenna, Mulalic, et al., 2022; Schuster et al., 2015; Tumse et al., 2024)
Environmental-ecological	Air pollution	B	C	C (X. H. Chen et al., 2023; Galimova et al., 2022; Hamed & Alshare, 2022; Sayed et al., 2021; S. Wang et al., 2024)
	Toxic waste, ecotoxicity, eutrophication		B	(Galparsoro et al., 2022; C. Li, Mogollón, Tukker, & Steubing, 2022; Mahmud & Farjana, 2022; Nazir et al., 2020; Ozsahin et al., 2022; Tayebi et al., 2024; T. Wang et al., 2023)
	Water quantity and quality		C	(Hong et al., 2024; Rashidi et al., 2022; Sander et al., 2024; Saravanan et al., 2022)
	Biodiversity		B	(Balotari-Chiebao et al., 2023; Delina, 2022; Galparsoro et al., 2022; C. Li et al., 2023; Sebestyén, 2021; Teff-Seker et al., 2022)
Technological	Simplicity	C	C	(Bianchini et al., 2022; Crippa et al., 2021; Desalegn et al., 2022; Hannan et al., 2023; Rohrig et al., 2019)
	Technological scalability		C	(Alemzero et al., 2021; Desalegn et al., 2023; C. Dong et al., 2021; Ebrahimi et al., 2022; Gebresslassie, 2021; Mastoi et al., 2023; Veers et al., 2022)
	Maturity and technology readiness		B	(Bianchini et al., 2022; Z. Chen, 2021; Haces-Fernandez et al., 2022; Jansen et al., 2022; Veers et al., 2022)
Economic	Costs in 2030 and long term	C	C	(Almutairi et al., 2021; Amjith & Bavanish, 2022; Đukan & Kitzing, 2021; Jahannoosh et al., 2021; Maienza et al., 2022; Musial et al., 2023; Z. Zhang et al., 2023)
	Employment effects and economic growth		C	(Dorrell & Lee, 2020; Gatto & Drago, 2021; Hanna et al., 2024; Mostafa Nosratabadi et al., 2021; Potrc et al., 2021; Singh et al., 2022; Z. Zhang et al., 2023)
Socio-cultural	Public acceptance	B	B	Buchmayr et al., 2022; Iwata et al., 2023; Liu et al., 2021; Takeuchi, 2023; Zawadzki et al., 2022; Z. Zhang et al., 2023)
	Effects on health and well-being		C	(Buchmayr et al., 2022; Dumbrille et al., 2021; McKenna, Pfenninger, et al., 2022b; Sander et al., 2024; Shoeib et al., 2021; Z. Zhang et al., 2023)
	Distributional effect		B	(Glasson et al., 2022; Ruddat, 2022; Ruhnau et al., 2024; Takeuchi, 2023)
Institutional	Political acceptance	C	B	(Cohen et al., 2023; Fofack-Garcia et al., 2023; Knauf & le Maitre, 2023; Roux et al., 2022; Ruddat, 2022; Schmidt et al., 2022)
	Institutional capacity and governance, cross-sectoral coordination		C	(A. Kumar et al., 2022; Rasool et al., 2022; Sadorsky, 2021; Weber, 2023; L. Zhang et al., 2024)
	Legal and administrative feasibility		C	(Al Arif & Herrera Anchustegui, 2022; Chang et al., 2021; Herrera Anchustegui & Radovich, 2022; C. Kim, 2021; Nieuwenhout, 2023; Ramos et al., 2021; Susskind et al., 2022)

Dimensions	Mitigation feasibility analysis	HYDROELECTRIC (DAMS)		
		Evidence		References
		Agreement		
		Dim. Avg	Indicator Score	
Geophysical	Physical potential	B	B	(IHA, 2024; Opperman et al., 2022; A. Rahman et al., 2022; R. Xu et al., 2023)
	Geophysical resources		B	(Golfam & Ashofteh, 2022; IHA, 2024; Wasti et al., 2022)
	Land use		A	(Opperman et al., 2022; A. Rahman et al., 2022)
Environmental-ecological	Air pollution	A	B	(Gemechu & Kumar, 2022; Ubierna et al., 2022; Z. Wang et al., 2024)
	Toxic waste, ecotoxicity, eutrophication		A	(A. Rahman et al., 2022; Z. Wang et al., 2024)
	Water quantity and quality		A	(A. Rahman et al., 2022)
	Biodiversity		A	(Fan et al., 2022; Kuriqi et al., 2021; Opperman et al., 2022; A. Rahman et al., 2022; Trottier et al., 2022)
Technological	Simplicity	C	C	(Ang et al., 2022; A. Rahman et al., 2022)
	Technological scalability		C	(Ang et al., 2022; A. Rahman et al., 2022)
	Maturity and technology readiness		C	(A. Rahman et al., 2022)
Economic	Costs in 2030 and long term	C	B	(Ang et al., 2022; IHA, 2024)
	Employment effects and economic growth		C	(Venus et al., 2022)
Socio-cultural	Public acceptance	A	A	(A. Rahman et al., 2022; van de Grift & Cuppen, 2022; Venus et al., 2022)
	Effects on health and well-being		B	Fan et al., 2022; Schulz & Skinner, 2022; Venus et al., 2022)
	Distributional effect		A	(Fan et al., 2022; A. Rahman et al., 2022; Schulz & Skinner, 2022)
Institutional	Political acceptance	LE	LE	(IHA, 2024)
	Institutional capacity and governance, cross-sectoral coordination		B	(IHA, 2024; Schulz & Skinner, 2022)
	Legal and administrative feasibility		LE	(IHA, 2024)
Dimensions	Mitigation feasibility analysis	HYDROELECTRIC (RUN OF RIVER)		
		Evidence		References
		Agreement		
		Dim. Avg	Indicator Score	
Geophysical	Physical potential	C	B	(Kuriqi et al., 2021; Wasti et al., 2022; R. Xu et al., 2023)
	Geophysical resources		C	(Golfam & Ashofteh, 2022; Quaranta et al., 2022; Wasti et al., 2022)
	Land use		C	(Engen et al., 2023; R. Xu et al., 2023)
Environmental-ecological	Air pollution	A	C	(Gemechu & Kumar, 2022; Ubierna et al., 2022; Z. Wang et al., 2024)
	Toxic waste, ecotoxicity, eutrophication		A	(Kuriqi & Jurasz, 2022; Y. Wang et al., 2022)
	Water quantity and quality		A	(Kuriqi et al., 2021; Kuriqi & Jurasz, 2022; Y. Wang et al., 2022)
	Biodiversity		A	(Gu et al., 2022; Kuriqi et al., 2021; Kuriqi & Jurasz, 2022; Trottier et al., 2022)
Technological	Simplicity	C	C	(Ang et al., 2022; Sasthav & Oladosu, 2022)
	Technological scalability		C	(Ang et al., 2022; Quaranta et al., 2022; Sasthav & Oladosu, 2022)
	Maturity and technology readiness		C	(Ang et al., 2022; Sasthav & Oladosu, 2022)
Economic	Costs in 2030 and long term	B	B	(Ang et al., 2022; Kuriqi et al., 2021)
	Employment effects and economic growth		NE	
Socio-cultural	Public acceptance	LE	LE	(Schulz & Skinner, 2022)
	Effects on health and well-being		NE	
	Distributional effect		NE	
Institutional	Political acceptance	B	B	(IHA, 2024; R. Xu et al., 2023)
	Institutional capacity and governance, cross-sectoral coordination		B	(IHA, 2024; Sasthav & Oladosu, 2022; Schmitt & Rosa, 2024)
	Legal and administrative feasibility		B	(IHA, 2024; Uría-Martínez & Johnson, 2023)

Dimensions	Mitigation feasibility analysis	GEOTHERMAL		
		Evidence		References
		Agreement		
		Dim. Avg	Indicator Score	
Geophysical	Physical potential	B	A	(DOE, 2024; IRENA & IGA, 2023; Sharmin et al., 2023; Zdzisław Krasnodebski, 2023)
	Geophysical resources		C	(DOE, 2024; IRENA & IGA, 2023; Melikoglu, 2017; Sharmin et al., 2023; Vargas et al., 2022; Zdzisław Krasnodebski, 2023)
	Land use		B	(Greiner et al., 2023; Sharmin et al., 2023; Shortall et al., 2015; Soltani et al., 2021; Vargas et al., 2022; Zdzisław Krasnodebski, 2023)
Environmental-ecological	Air pollution	B	B	(Alsaleh et al., 2023; Bashir et al., 2022; Idroes et al., 2024; Sharmin et al., 2023; Soltani et al., 2021)
	Toxic waste, ecotoxicity, eutrophication		B	(Sharmin et al., 2023; Soltani et al., 2021)
	Water quantity and quality		B	(DOE, 2019; Sharmin et al., 2023; Soltani et al., 2021)
	Biodiversity		A	(M. T. Islam et al., 2022; Ng et al., 2021; Shortall et al., 2015; Soltani et al., 2021)
Technological	Simplicity	C	C	(DOE, 2019; IPCC, 2011; Sharmin et al., 2023; Zdzisław Krasnodebski, 2023)
	Technological scalability		C	(DOE, 2019; IRENA & IGA, 2023; Sharmin et al., 2023)
	Maturity and technology readiness		C	(DOE, 2019; IRENA & IGA, 2023; Sharmin et al., 2023; Zdzisław Krasnodebski, 2023)
Economic	Costs in 2030 and long term	B	B	(DOE, 2024; IRENA & IGA, 2023; R.V. et al., 2023; Sharmin et al., 2023; Soltani et al., 2021; Zdzisław, 2023)
	Employment effects and economic growth		B	(DOE, 2019, 2024; Greiner et al., 2023; Idroes et al., 2024; Shortall et al., 2015; Soltani et al., 2021; Zdzisław Krasnodebski, 2023)
Socio-cultural	Public acceptance	B	B	(Hazboun & Boudet, 2020; Pellizzone et al., 2015; Renoth et al., 2023; Soltani et al., 2021; Zdzisław Krasnodebski, 2023)
	Effects on health and well-being		LE	(Idroes et al., 2024; Shortall et al., 2015)
	Distributional effect		B	(DOE, 2024; Greiner et al., 2023; Shortall et al., 2015; Soltani et al., 2021; Zdzisław Krasnodebski, 2023)
Institutional	Political acceptance	B	C	(IRENA & IGA, 2021; Soltani et al., 2021; Zdzisław Krasnodebski, 2023)
	Institutional capacity and governance, cross-sectoral coordination		B	(DOE, 2024; IRENA & IGA, 2021, 2023; Soltani et al., 2021; Zdzisław Krasnodebski, 2023)
	Legal and administrative feasibility		B	

Dimensions	Mitigation feasibility analysis	ENERGY STORAGE (PSH)		
		Evidence		References
		Agreement		
		Dim. Avg	Indicator Score	
Geophysical	Physical potential	B	C	(Görtz et al., 2022; Hunt et al., 2020; Rosenlieb et al., 2022)
	Geophysical resources		B	(de Assis Brasil Weber et al., 2024; Gurung et al., 2016; Rosenlieb et al., 2022)
	Land use		B	(de Assis Brasil Weber et al., 2024; Hunt et al., 2018; Turley et al., 2022)
Environmental-ecological	Air pollution	B	B	(B. Ali, 2023; de Assis Brasil Weber et al., 2024; Simon et al., 2023)
	Toxic waste, ecotoxicity, eutrophication		B	(Altea & Yanagihara, 2024; M. Li & He, 2022; Z. Wang et al., 2024)
	Water quantity and quality		B	(Gurung et al., 2016; Hunt et al., 2020; Kobler et al., 2019)
	Biodiversity		B	(de Assis Brasil Weber et al., 2024; Gurung et al., 2016; Turley et al., 2022)
Technological	Simplicity	C	C	(X. Ma et al., 2022; Nikolaos et al., 2023; J. F. Zhao et al., 2022)
	Technological scalability		C	(X. Ma et al., 2022; Nikolaos et al., 2023; Pacot et al., 2022)
	Maturity and technology readiness		C	(Jacobson et al., 2023; Nikolaos et al., 2023; J. F. Zhao et al., 2022)

<b>Economic</b>	Costs in 2030 and long term	B	B	(Jacobson et al., 2023; Nasir et al., 2022; X. Wang et al., 2022)
	Employment effects and economic growth		B	(S. Ali et al., 2024; Gilfillan & Pittock, 2022; Gurung et al., 2016)
<b>Socio-cultural</b>	Public acceptance	B	B	(S. Ali et al., 2024; Cantor et al., 2023; Gurung et al., 2016)
	Effects on health and well-being		LE	(H. B. Wang & Zhang, 2024; Xue et al., 2022)
	Distributional effect		B	(Cantor et al., 2023; Majidi et al., 2022)
<b>Institutional</b>	Political acceptance	B	C	(S. Ali et al., 2024; Gilfillan & Pittock, 2022; Gurung et al., 2016)
	Institutional capacity and governance, cross-sectoral coordination		B	(Gilfillan & Pittock, 2022; Jacobson et al., 2023; X. Ma et al., 2022)
	Legal and administrative feasibility		B	(Gilfillan & Pittock, 2022; Nikolaos et al., 2023)
<b>Dimensions</b>	Mitigation feasibility analysis	<b>ENERGY STORAGE (BES)</b>		
		<b>Evidence</b>		
		<b>Agreement</b>		
		<b>Dim. Avg</b>	<b>Indicator Score</b>	<b>References</b>
<b>Geophysical</b>	Physical potential	C	C	(Chatzigeorgiou et al., 2024; McNamara et al., 2022; Nyamathulla & Dhanamjayulu, 2024)
	Geophysical resources		B	(Amir et al., 2023; Jafari et al., 2022; Nyamathulla & Dhanamjayulu, 2024)
	Land use		LE	
<b>Environmental-ecological</b>	Air pollution	B	B	(Arshad et al., 2022; McNamara et al., 2022; Mousavinezhad et al., 2024)
	Toxic waste, ecotoxicity, eutrophication		B	(Amir et al., 2023; Nyamathulla & Dhanamjayulu, 2024; M. A. Rahman et al., 2022)
	Water quantity and quality		B	(Amir et al., 2023; Arshad et al., 2022; Mousavinezhad et al., 2024)
	Biodiversity		LE	
<b>Technological</b>	Simplicity	C	C	(Chatzigeorgiou et al., 2024; Nyamathulla & Dhanamjayulu, 2024; M. A. Rahman et al., 2022)
	Technological scalability		C	(Chatzigeorgiou et al., 2024; M. A. Rahman et al., 2022; C. Zhao et al., 2023)
	Maturity and technology readiness		B	(Chatzigeorgiou et al., 2024; Jafari et al., 2022; M. A. Rahman et al., 2022)
<b>Economic</b>	Costs in 2030 and long term	C	C	(Chatzigeorgiou et al., 2024; Farghali et al., 2023; C. Zhao et al., 2023)
	Employment effects and economic growth		C	(Farghali et al., 2023; Jafari et al., 2022; C. Zhao et al., 2023)
<b>Socio-cultural</b>	Public acceptance	C	C	(Chatzigeorgiou et al., 2024; M. A. Rahman et al., 2022; C. Zhao et al., 2023)
	Effects on health and well-being		C	(Farghali et al., 2023; Kalair et al., 2021; Nyamathulla & Dhanamjayulu, 2024)
	Distributional effect		B	(Chatzigeorgiou et al., 2024; Farghali et al., 2023; C. Zhao et al., 2023)
<b>Institutional</b>	Political acceptance	B	B	(Masiello et al., 2022; McNamara et al., 2022; M. A. Rahman et al., 2022)
	Institutional capacity and governance, cross-sectoral coordination		A	(Chatzigeorgiou et al., 2024; Jafari et al., 2022; M. A. Rahman et al., 2022)
	Legal and administrative feasibility		B	(Chatzigeorgiou et al., 2024; McNamara et al., 2022; M. A. Rahman et al., 2022)



Dimensions	Mitigation feasibility analysis	DEMAND MITIGATION (BUILDINGS)			
		Evidence		References	
		Agreement			
		Dim. Avg	Indicator Score		
Geophysical	Physical potential	C	C	(Felius et al., 2020; Okorafor et al., 2021; Seeley & Dhakal, 2022)	
	Geophysical resources		NA		
	Land use		B	(Khairi et al., 2017; Kuittinen et al., 2023; Rivero-Camacho et al., 2023)	
Environmental-ecological	Air pollution	B	C	(Fawcett & Killip, 2019; Tonn et al., 2024; Tuominen et al., 2013; Underhill et al., 2020)	
	Toxic waste, ecotoxicity, eutrophication		NA		
	Water quantity and quality		NA		
	Biodiversity		B	(Mayrand & Clergeau, 2018; M. M. Rahman, 2020; Wooster et al., 2022)	
Technological	Simplicity	B	B	(Ekambaram & Olsson, 2022; Sekak et al., 2016; Topouzi et al., 2019)	
	Technological scalability		B	(Doukari et al., 2024; Heo et al., 2015; Morales-Inzunza et al., 2023)	
	Maturity and technology readiness		C	(Cucuzza et al., 2022; D'Oca et al., 2018; Paiho et al., 2023; Ranganath et al., 2024)	
Economic	Costs in 2030 and long term	C	C	(Belaïd et al., 2021; Doodoo et al., 2017; Gonzalez-Caceres et al., 2022)	
	Employment effects and economic growth		C	(Füllemann et al., 2020; Hirvonen et al., 2022; Mikulic et al., 2020, 2021)	
Socio-cultural	Public acceptance	B	B	(Bal et al., 2021; Jowkar et al., 2022; Klasic & Đokic, 2023; D. X. Zhao et al., 2015)	
	Effects on health and well-being		C	(Qu et al., 2021; Tonn et al., 2024; Zaeh et al., 2021)	
	Distributional effect		B	(Bouzarovski et al., 2018; Checker, 2011; Davis & Ryan, 2020; Femenias et al., 2022; Tonn et al., 2024; Xie et al., 2023)	
Institutional	Political acceptance	B	B	(Hess & Renner, 2019; Karapın & Vogel, 2023)	
	Institutional capacity and governance, cross-sectoral coordination		B	(Foo, 2015; Häkkinen et al., 2016)	
	Legal and administrative feasibility		B	(Davis & Ryan, 2020; Evans et al., 2017; Vine et al., 2017; Xie et al., 2023)	
Dimensions	Mitigation feasibility analysis	DEMAND MITIGATION (PUBLIC TRANSPORT)			
		Evidence		References	
		Agreement			
		Dim. Avg	Indicator Score		
Geophysical	Physical potential	C	C	(Ceder, 2021; Das & Ram, 2024; Gutiérrez et al., 2021; Nieuwenhuijsen, 2020; Rith et al., 2019)	
	Geophysical resources		C	No new evidence	
	Land use		C	(Anastasiadou & Gavanas, 2023; Das & Ram, 2024; Gassner et al., 2018; Guo et al., 2024; Nieuwenhuijsen, 2020; Nigro et al., 2019; Rith et al., 2019)	
Environmental-ecological	Air pollution	B	C	(Ambarwati & Indriastuti, 2019; Gohl & Schrauth, 2024; González et al., 2021; K. Li et al., 2022; L. Ma et al., 2021; Monteiro et al., 2024; Napitupulu et al., 2018; Nieuwenhuijsen, 2020; Quarumby et al., 2019; Sun et al., 2019; Triguero-Mas et al., 2020; Wong et al., 2022; Zhai et al., 2022)	
	Toxic waste, ecotoxicity, eutrophication		LE		
	Water quantity and quality		LE		
	Biodiversity		C	(Alshammari, 2022)	
Technological	Simplicity	B	B	(Hrelja et al., 2020)	
	Technological scalability		B	(Kuo et al., 2023; Lukic Vujadinovic et al., 2024; Paiva et al., 2021)	
	Maturity and technology readiness		C	(Kuo et al., 2023; Tsakalidis et al., 2020; Wotek et al., 2021)	
Economic	Costs in 2030 and long term	C	C	(Godínez-Zamora et al., 2020; Goel & Chowdhary, 2022; Jarecki, 2023; Karltorp & Maltais, 2024; Pérez-Prada et al., 2019; Siddiqui et al., 2024; Sofia et al., 2020)	
	Employment effects and economic growth		B	(P. N. Chen & Karimi, 2019; Hanyurwumutima & Gumedede, 2021; K. Kim et al., 2021)	

<b>Socio-cultural</b>	Public acceptance	C	B	(Fointiat & Feliot-Rippeault, 2019; Guno et al., 2021; Rodriguez-Valencia et al., 2023; S. Wang et al., 2020)
	Effects on health and well-being		C	(Anciaes & Alhassan, 2024; Brown et al., 2019; Kwan & Hashim, 2020; Rojas-Rueda et al., 2012, 2013)
	Distributional effect		C	(Fearnley & Aarhaug, 2019; Hoogerwerf et al., 2023; Pereira et al., 2019; Saif et al., 2019; van Zoest & Daamen, 2024; Vecchio et al., 2024)
<b>Institutional</b>	Political acceptance	C	B	(Hochachka & Mérida, 2023; Kogler et al., 2023; Thaller et al., 2021)
	Institutional capacity and governance, cross-sectoral coordination		C	(Hirschhorn et al., 2019; Rodriguez-Valencia et al., 2023; Sørensen et al., 2023; van Zoest & Daamen, 2024)
	Legal and administrative feasibility		B	No new evidence

## REGIONAL FAS

Dimensions	Mitigation feasibility analysis	SOLAR PV (ASIA)		
		Evidence		References
		Agreement		
		Dim. Avg	Indicator Score	
<b>Geophysical</b>	Physical potential	C	C	(Abu Qadourah, 2022; Eslami et al., 2021; M. M. Islam et al., 2022b; Solangi et al., 2021b)
	Geophysical resources		C	(Calvo & Valero, 2022b; Liang et al., 2022b; Song et al., 2023)
	Land use		B	(J. Kim et al., 2022b; Yang et al., 2019; Yin et al., 2024)
<b>Environmental-ecological</b>	Air pollution	C	C	(Anwar et al., 2021b; Chien et al., 2021b; Hamed Banirazi Motlagh et al., 2023b)
	Toxic waste, ecotoxicity, eutrophication		B	(Sharma et al., 2021b; Song et al., 2023)
	Water quantity and quality		C	(Hadipour et al., 2021b; Ismail & Go, 2021)
	Biodiversity		B	(Pratiwi & Juerges, 2020; Xia et al., 2022)
<b>Technological</b>	Simplicity	C	B	(Al-Habaibeh et al., 2023; Shukla et al., 2018)
	Technological scalability		C	(Jiang et al., 2022; Khan et al., 2023)
	Maturity and technology readiness		C	(Abas et al., 2022; Shukla et al., 2018)
<b>Economic</b>	Costs in 2030 and long term	C	C	(Abu Qadourah, 2022; Eslami et al., 2021; Mah et al., 2018)
	Employment effects and economic growth		B	(Barki et al., 2020; S. Zhang et al., 2017)
<b>Socio-cultural</b>	Public acceptance	C	C	(Al-Habaibeh et al., 2023; Mah et al., 2018; J. Wu et al., 2023)
	Effects on health and well-being		C	(Albatayneh et al., 2021; Karthick et al., 2021; Noorollahi et al., 2021)
	Distributional effect		B	(Akteer & Bagchi, 2021; Padmanathan et al., 2019; G. Zhao et al., 2022)
<b>Institutional</b>	Political acceptance	B	B	(Corwin & Johnson, 2019; Do et al., 2020)
	Institutional capacity and governance, cross-sectoral coordination		B	(Corwin & Johnson, 2019; Do et al., 2020; Oryani et al., 2021)
	Legal and administrative feasibility		A	(Corwin & Johnson, 2019; Do et al., 2020)

Dimensions	Mitigation feasibility analysis	SOLAR PV (LATIN AND CENTRAL AMERICA)		
		Evidence		References
		Agreement		
		Dim. Avg	Indicator Score	
Geophysical	Physical potential	B	C	(Arriet et al., 2022; Escamilla-García et al., 2023; Osorio-Aravena et al., 2021)
	Geophysical resources		B	(Arriet et al., 2022; Escamilla-García et al., 2023; Osorio-Aravena et al., 2021; Ramírez-Tovar et al., 2022)
	Land use		B	(Matamala et al., 2021; Raihan & Tuspekova, 2022; Ramírez-Tovar et al., 2022)
Environmental-ecological	Air pollution	Insuf.	LE	(Matamala et al., 2021; Raihan & Tuspekova, 2022; Ramírez-Tovar et al., 2022; Rivera et al., 2024b)
	Toxic waste, ecotoxicity, eutrophication		NA	
	Water quantity and quality		NA	
	Biodiversity		NA	
Technological	Simplicity	Insuf.	LE	(Osorio-Aravena et al., 2021; Rivera et al., 2024b)
	Technological scalability		C	(Icaza et al., 2022; Moreno et al., 2022; Rebolledo et al., 2022)
	Maturity and technology readiness		LE	(Osorio-Aravena et al., 2021)
Economic	Costs in 2030 and long term	B	A	(León-Ospina et al., 2023; Osorio-Aravena et al., 2021; Tapia et al., 2023)
	Employment effects and economic growth		C	(Maka & Alabid, 2022; Pourasl et al., 2023)
Socio-cultural	Public acceptance	C	C	(Canafoglia, 2023; Miravet-Sánchez et al., 2022)
	Effects on health and well-being		C	(Matamala et al., 2021; Miravet-Sánchez et al., 2022; Rivera et al., 2024b)
	Distributional effect		C	(Cabello-Vargas, 2022; Chueca et al., 2023; Delfín-Portela et al., 2023; Oyewo et al., 2024)
Institutional	Political acceptance	A	A	(Canafoglia, 2023; Icaza et al., 2022; Schaubé et al., 2022)
	Institutional capacity and governance, cross-sectoral coordination		A	(Escamilla-García et al., 2023; Moraga-Contreras et al., 2022; Seminario-Córdova, 2023)
	Legal and administrative feasibility		A	(Escamilla-García et al., 2023; Fernández et al., 2022; Moraga-Contreras et al., 2022; Ottonelli et al., 2023; Seminario-Córdova, 2023)

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