



Annex to CGG Working Paper 21-

Assessment Of International Treaties Applicable, Or At Least Adaptable, To Geoengineering-Related Activities Through Indicators

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		ASSESSMENT OF IN	ITERNATIONAL TREATIES A	APPLICABLE, OR AT LEAS	T ADAPTABLE, TO	GEOENGINEERING-RELA	TED ACTIVITIES			
Legal Force	Precision of	Decision-Making Rules	Regulatory	Distribution of	Treaty-Based	Liability and	Scientific	Degree of	Degree of non-	Future
	Obligations		Instruments &	Responsibility	Institutions	Enforcement	Input	State	State Actors	Proofing
			Incentives					Participatio	Participation &	
								n &	Representivity	
								Representi		
								vity		

Universal scope- applicable to all Geoengineering techniques and related activities

1992 CONVENTION ON BIOLOGICAL DIVERSITY (CBD)

Scope for Participation: Universal

Substantive scope: All activities having an impact on biodiversity conservation

Geographic Scope: Global (incl. High Seas)

Yes	No	Yes	Yes	No	Yes	Weak	Yes	High	High	Yes
Entered into force:	Framework	COP Decisions by Consensus	Strong National		COP (meets	No specific rules on	Subsidiary	193	Participation of	Adaptability
29.12.1993	convention-	(or, as a last resort, 2/3	Implementation ¹ : EIA;		every 2 years);	liability and state	Body on	Contractin	non-state actors	to scientific
	soft language	majority)	national plans,		Secretariat;	responsibility	Scientific	g Parties,	is allowed and	development
Current n.		3,5 3,7	strategies and		,	,	Technological	representi	large (mainly	s - eg.
of contracting		Amendments to the	programmes;		SBSTTA	National	and Technical	ng	environmental	Cartagena
Parties:		Convention/Protocols/Annex	identification &		(composed by	Implementation -	Advice	developin	and business)	Protocol on
193		es by 2/3 majority of the	monitoring; in situ/ex		Gov reps with	positive role of	(SBSTTA)	g and	,	Biosafety;
		Parties present and voting	situ conservation		relevant	NGOs in stimulating	,	developed	Observer status	COP
		(Art 29)	through national		expertise,	compliance via CBD	Clearing	countries	can be granted	decisions on
			measures and		decides by	institutions ²	House	in the	to States, NGOs,	climate-
		No reservation permitted	legislation (eg.		majority)		Mechanism,	negotiatio	IGOs,	related geo-
		(art 37)	Protected Areas),		, ,,	Dispute Settlement	as publicly	ns and	International	engineering
		,	exchange of		Secretariat	(Art.27) - cft. the	accessible	regime	organisations.	
			information.			Cartagena protocol	information	evolution	(Art 23.5)	Mechanisms
						provides for the	repository		NGOs can	for
			Adoption of national			negotiation of a	, ,		participate to	Amendment
			incentive measures.			non-compliance			drafting groups	s within the
			Financial Mechanism			procedures			at the discretion	treaty
			(GEF)			'			of the chair of	provide
			,						the COP.	engines for
										dynamism
										(See
										'Decision-
										Making
										Rules')
										,
			l	l				ĺ		1

¹ Implementation can be defined as the body of national measures (eg. laws, regulation, policies and standards, administrative and judicial measures) that operationalize the objectives and requirements of an international treaty in the national legal system of its contracting parties. See C Redgwell, Oxford Handbook .., See also UNEP Governing Council Decision SS VII/4 'Compliance with and Enforcement of Multilateral Environmental Agreements 'Doc. UNEP (DEPI)/MEAs/WBG.1/3(February 2002) Annex II.

² See Brunne, Doelle, Rajamani, *Promoting Compliance in an Evolving Climate Regime*, (2012) at 173-174, which refers to role of ETC in bringing its concerns to the CBD Secretariat with respect the German OIF experiment, despite the 2009 COP decision on their moratorium.

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	Obligations		Instruments &	Responsibility	Institutions	Enforcement	Input	State	State Actors	Proofing
			Incentives					Participatio	Participation &	
								n &	Representivity	
								Representi		
								vity		

1992 UNITED NATIONS FRAMEWORK CONVENTION ON CLIMATE CHANGE (UNFCCC)

Scope for Participation: Universal

Substantive Scope: All activities related to stabilisation of GHG to prevent dangerous climate change (Art 2) – ie. theoretically all climate-related geoengineering techniques

		·		Geographic Scope:				, J		
Yes	No	Yes	Yes	Yes	Yes	Weak	Yes	High	High	Yes
Entered into Force: 21.3.1994 Current n. of contracting Parties: 195	Framework convention; Soft language	COP decisions by consensus ³ Amendments to the Convention/Annexes by consensus (of at least resort, % majority of the Parties present and voting (art 15-16). Amendments to the Protocol must be accepted to enter into force. Annexes/amendment to annexes will enter into force for all Parties 6 months after adoption (except express non-acceptance) No reservations permitted (art 24)	Strong National Implementation: GHG inventories, national programmes and policies, transfer of technology, consideration of BA scientific information & knowledge. Financial Assistance to dev.ing c. Green Climate Fund	Based on principle of Common but Differentiated Responsibility	COP (meets annually); Subsidiary Body on Scientific and Technological Advice (SBSTA) Subsidiary Body on Implementation (SBI) Secretariat	No liability provisions Dispute Settlement National Implementation	SBSTA external linkages with IPCC	195 Contractin g Parties , representi ng developin g and developed countries in the negotiatio ns and regime evolution	Participation of non-state actors is allowed and large (environmental, business, academia) Observer status can be granted to the UN, its specialised Agencies, non-Party States. 'Any body or agency, whether national or international, governmental or non-governmental, which is qualified in matters covered by the Convention[]m ay be admitted as observer, unless at least 1/3 of the Parties present object and subject to the rules of procedures	Adaptability to scientific development s - eg. Kyoto Protocol; interpretatio n, strengthenin g and evolution of the regime through COP decisions) Mechanisms for Amendment s within the treaty provide engines for dynamism (See 'Decision- Making Rules')

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³ This is not mentioned in the Convention, but follows general UN practice. See discussion of consensus at UNFCC in Post-Cancun Paper by Field http://www.field.org.uk/files/field_limitationconcensus_web.pdf

		ASSESSMENT OF IN	TERNATIONAL TREATIES A	APPLICABLE, OR AT LEAS	T ADAPTABLE, TO G	GEOENGINEERING-RELAT	ED ACTIVITIES			
Legal Force	Precision of Obligations	Decision-Making Rules	Regulatory Instruments & Incentives	Distribution of Responsibility	Treaty-Based Institutions	Liability and Enforcement	Scientific Input	Degree of State Participatio n & Representi vity	Degree of non- State Actors Participation & Representivity	Future Proofing
									adopted by the COP' (Art 7.6)	
		1997 KY Substantive Scope: All activities	OTO PROTOCOL TO THE U	Scope for Participation	n: Universal ts (art 3) - ie. theoret	·	•	echniques	, , , ,	
Yes	Yes	Yes	Yes	Yes	Yes	Medium	Yes	High	High	Yes/No
Entered into Force: 16.2.2005 Current n. of Parties: 191		Meeting of the Parties (MOP) decisions by consensus ⁴ Amendments/annexes/amen dment to annexes to the protocol by consensus, or at last resort by ¾ majority present and voting. Amendments to the Protocol must be accepted to enter into force. Annexes/amendment to annexes (except to A and B that must be accepted) will enter into force for all Parties 6 months after adoption (except express non-acceptance)	Strong National Implementation: Quantified Emission Limitation and Reduction Targets (QELRs) and Timetables for Annex I c. Flexibility Mechanisms (CDM, ETS, JI) Monitoring, Reporting and Verification KP Financial Mechanism	(based on principle of Common but Differentiated Responsibility)	MOP; Secretariat; SBSTA; SBI; CDM Executive Board; Compliance Committee	No liability provisions Dispute Settlement & Non-Compliance Procedures (art 18 + Annex to Decision 24/CP.7) including a Facilitation Branch and an Enforcement Branch International support to national implementation	SBSTA; external linkages with IPCC	191 Parties (but some key players are not Parties – e.g. US, and Canada, which withdrew in 2012)	Participation of non-state actors is allowed and large (environmental, business, academia) Same rules for participation than established under the Convention (art 13.8 KP)	Unproven adaptability to scientific development s in practice (e.g. post 2017 scenario remains uncertain), but COP decisions for interpretatio n, strengthenin g and evolution Mechanisms for Amendment s within the treaty provide engines for dynamism (See 'Decision-Making Rules')

⁴ The rules of procedure of the COP and financial procedures applied under the Convention are applied *mutate mutandis* (except where otherwise decided by consensus) (art 13.5)

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Legal Force	Precision of	Decision-Making Rules	Regulatory	Distribution of	Treaty-Based	Liability and	Scientific	Degree of	Degree of non-	Future
	Obligations		Instruments &	Responsibility	Institutions	Enforcement	Input	State	State Actors	Proofing
			Incentives					Participatio	Participation &	
								n &	Representivity	
								Representi		
								vity		

1977 CONVENTION ON THE PROHIBITION OF MILITARY OR ANY OTHER HOSTILE USE OF ENVIRONMENTAL MODIFICATION TECHNIQUES, (ENMOD)

Scope for Participation: Universal

Substantive Scope: Limited to military or hostile activities (i.e. dual use of climate-related activities only)

Geographic Scope: Global

				соод. пр соорег						
Yes	No	No	No	No	Yes/No	Weak	No	Low	Low	Yes/No
Entered into force:	Only general	No specific indication of	Weak national		COP (only met	No specific		76 parties	No rules on non-	Provision for
5.10.1978	requirements	decision-making	implementation:		twice);	provisions on		- parties	state actors	review, but
	and	rules/participation to it.	Obligation to		Depositary;	liability		have only	participation	weak (See
Current n. of	principles	Amendments enter into force	"undertake any		Consultative			met		also
Contracting Parties:		for a Party upon its	measures it consider		Committee of	Any party can lodge		twice , but		'Decision-
76		acceptance after a majority of	necessary to prohibit		experts	a compliant to the		include		Making
		parties has accepted it (no	and prevent any			UN Security Council		developin		Rules')
		indication of specific	activity in violation" of			if believes that		g and		
		decision-making rules)	the convention;			another Party is		developed		
			consultation and			acting in breach of		countries.		
		Provision for review after 5	cooperation incl. with			the Convention				
		years after entry into force	international							
			organizations)							
							1	L		

Specific – Applicable to Geoengineering methods and related activities in the atmosphere and the outer space

1979 LONG-RANG TRANSBOUNDARY AIR POLLUTION CONVENTION (Regional Treaty)

Scope for Participation: Limited (UNECE Members only)

Substantive Scope: Air Polluting Activities (ie. only if any climate-related Geoengineering technique causes/threatens to cause air pollution)

Geographic Scope: Regional (UNECE region, including the EU as Regional and Economic Integration Organisation –REIO)

		Geograpine see	pe. Regional Contest regio	ni, including the LO us no	gioriai ana Economi	c integration organisation	on KLIO)			
Yes	No	Yes	No	No	Yes	Medium	Yes	High	Medium	Yes
				5 16 11 1001			_	C.I		
Entered into force:	Soft nature of	Executive Body decides by	Strong National	Except for the 1991	Executive Body	No liability	European	51 of the	Participation of	Adaptability
16.5.1983	the	consensus (or as a last resort,	Implementation:	Protocol on Volatile		provisions (footnote	Monitoring	54 United	non-states	to scientific
	obligations in	by ¾ majority of parties	General obligation to	Organic Compounds	UNECE Executive	to Art 8 (f) states"	and	Nations	actors is	development
Current n. of	the	present and voting – unless	limit, reduce and	provides for 3 ways	Secretariat	the present	Evaluation	Economic	allowed, but has	(eg.
Contracting Parties:	convention,	otherwise provided)	prevent air pollution;	of meeting		convention does	Programme	Commissio	varied over time	framework
51 of the 54 United	but more		Exchange of	obligations based on	Implementation	not contain a rule	(EMEP)	n for		strengthene
Nations Economic	detailed	An amendment is adopted by	information;	individual Parties'	Committee	on State liability as	provides	Europe	Qualified	d by 8
Commission for	targets and	consensus of the Parties, and	consultation 'upon	emissions and		to damage)	scientific	(UNECE)	Participation as	subsequent
Europe (UNECE)	specific	enters into force for the	request'	geographic/demogra			support to	members	Observer is	protocols.8
members	obligations	parties that have accepted it	(more specific	phic circumstances		Dispute Settlement	the Executive		permitted to any	Of these, 3

		ASSESSMENT OF IN	TERNATIONAL TREATIES A	APPLICABLE, OR AT LEAS	T ADAPTABLE, TO G	GEOENGINEERING-RELA	TED ACTIVITIES			
Legal Force	Precision of Obligations	Decision-Making Rules	Regulatory Instruments & Incentives	Distribution of Responsibility	Treaty-Based Institutions	Liability and Enforcement	Scientific Input	Degree of State Participatio n & Representi vity	Degree of non- State Actors Participation & Representivity	Future Proofing
	are established in the associated Protocols via a "critical loads approach"	on the 90 th day after instruments of acceptance have been deposited. Thereafter, it enters into force on the 90 th day after deposit of any other acceptance (art12 and RoP 29)	obligations in the individual protocols for specific substances) No financial mechanism			Non-compliance mechanism (since 1997) ⁵	Body ⁶		body or agency, whether national or international, governmental or nongovernmenta , which is qualified in matters covered by the Convention, unless at least 1/3 of the Parties present at the session object. No rules regarding submissions which are channelled via the Parties, NGOs usually not admitted into closed sessions, nor required in subsidiary bodies.	are of special interest for research on SRM techniques: 2 sulphur protocols, and the acidification protocol. Mechanisms for Amendment s within the treaty provide engines for dynamism (See 'Decision-Making Rules')
		1987 MON	I ITREAL PROTOCOL TO THI			ECTION OF THE OZONE I	.AYER		bodies.	
	Substa	ntive Scope: Limited to Geoengin	eering techniques involvin	Scope for Participation g the use of substances r Geographic Scope	regulated under the	Montreal Protocol and c	lepleting the Ozone	: Layer (e,g. SO	2)	
Yes	Yes	Yes	Yes	Yes	Yes	Medium	Yes	Very High	High <mark>?</mark>	Yes
Entered into Force:		Meeting of the Parties (MOP)	Strong National		MOP;	No specific	Assessment	Universal	Participation of	Adaptability

⁸ The 1999 Protocol to Abate Acidification, Eutrophication and Ground-level Ozone; 25 Parties. Entered into force on 17 May 2005. (Guidance documents to Protocol adopted by decision 1999/1, Revised guidance document on ammonia).; The 1994 Protocol on Further Reduction of Sulphur Emissions; 29 Parties. Entered into force 5 August 1998.; The 1985 Protocol on the Reduction of Sulphur Emissions or their Transboundary Fluxes by at least 30 per cent; 25 Parties. Entered into force 2 September 1987.

⁵ Decision 1997/2 Concerning the Implementation, its Structure and Functions and Procedures for Review of Compliance

⁶ EMEP Steering Committee (supported by a Bureau) meets annually and reports to the Executive Body on its activities (Art 9 and 10).

⁷ Rules of procedure http://www.unece.org/fileadmin/DAM/env/lrtap/conv/Rules_of_Procedure.pdf

Logal Force	Precision of		TERNATIONAL TREATIES A	Distribution of				Dograp of	Dograp of non	Future
Legal Force	Obligations	Decision-Making Rules	Regulatory Instruments & Incentives	Distribution of Responsibility	Treaty-Based Institutions	Liability and Enforcement	Scientific Input	Degree of State Participatio n & Representi vity	Degree of non- State Actors Participation & Representivity	Proofing
Current n. of Contracting Parties: 197 ⁹ – Universal Participation		decides by consensus, (decisions on adjustments to the ozone depleting potentials in the Annexes can taken by 2/3 majority for developing C and majority of developed c. These adjustments will bind all parties to the protocol, including those who voted against them (art 2(9) as revised 1990) Objecting Parties can withdraw from the protocol with 1 year notice	Implementation: specific targets and timelines to reduce and eliminate the production and consumption of certain ozone depleting substances Montreal Protocol Multilateral Fund		Secretariat Implementation Committee - (political rather than judicial organ)	provision on liability Dispute Settlement Non-compliance Procedure (both facilitative and enforcement functions)	Panels pursuing to Art.6 ¹⁰ ; and other temporary subsidiary bodies (e.g. task forces)	Participati on since Septembe r 2009	non-state actors is allowed, and have increased over time RoP. 6: The United Nations and its specialized agencies, the International Atomic Energy Agency and any State not party to the Protocol/Convention may be represented by observers. RoP 7: Any body or agency, whether national or international, governmental or nongovernmental, qualified in fields relating to the protection of the ozone layer [], subject to the condition that their admission to the meeting is not objected to by at least 1/3 of	to scientific developmen S (eg. adjustment and amendment procedure) Mechanisms for Amendment s within the treaty provide engines for dynamism (See 'Decision-Making Rules')

⁹ However, the 1997 Montreal Protocol and the 1999 Beijin Amendment only have 194 and 188 contracting Parties, respectively ¹⁰ <u>Technology and Economic Assessment Panel (TEAP)</u>, <u>Scientific Assessment Panel (SAP)</u>, <u>Environmental Effects Assessment Panel (EEAP)</u>

		ASSESSMENT OF IN	TERNATIONAL TREATIES A	APPLICABLE, OR AT LEA	AST ADAPTABLE. TO	GFOFNGINFFRING-RI	LATED ACTIVITIES			
Legal Force	Precision of Obligations	Decision-Making Rules	Regulatory Instruments & Incentives	Distribution of Responsibility	Treaty-Based Institutions	Liability and Enforcement	Scientific Input	Degree of State Participatio n & Representi vity	Degree of non- State Actors Participation & Representivity	Future Proofing
							<u>.</u>			
									present at the meeting, may be granted observe stauts Subject to conditions, they can: participate without the right to vote in the proceedings of any meeting in matters of direct concern to the body or agency they represent; NGOs can only submit proposals via delegation, but are allowed to participate in the discussion of the proposal. They are allowed to participate to closed sessions of Subsidiary	
									bodies, formal and informal. They are occasionally consulted, if needed.	

		ASSESSMENT OF IN	TERNATIONAL TREATIES A	APPLICABLE, OR AT LEAS	T ADAPTABLE, TO	GEOENGINEERING-RELA	TED ACTIVITIES			
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	Obligations		Instruments &	Responsibility	Institutions	Enforcement	Input	State	State Actors	Proofing
			Incentives					Participatio	Participation &	
								n &	Representivity	
								Representi		
								vity		

OUTER SPACE REGIME

(includes: the 1967 Outer Space Treaty; the 1972 Space Liability Convention; the 1975 Space Registration Convention; the 1979 Moon Treaty. 11)

Scope for Participation: Universal

Substantive Scope: All geoengineering activities undertaken in Outer Space (and the Moon) and/or having an impact on the rights and obligations of the States in the Outer Space and its environment (ie. Placement of space mirrors)

Geographic Scope: Global Outer Space¹²

			O.	eographic scope. Globar	Outer Space					
Yes	No	No	No	No	No	Medium?	Yes	Medium	Medium	?
Entered into Force:	Mainly	In absence of special	Weak National		No permanent	Outer Space Treaty	Scientific and	Parties to	A number of	
he 1967 Outer Space	international	provisions the UN practice of	Implementation: Main		treaty-body and	states that States	Technical	COPOUS	international	
Γreaty: 10.10.1967;	legal	decisions by consensus	principles: eg. non-		conference of	are responsible for	Subcommitte	meet	organizations,	
he 1972 Space	principles	applies	appropriation of outer		the Parties.	national space	e the United	annually	including both	
iability Convention:			space by any one		However, the	activities (art VI),	Nations	-	intergovernment	
.9.1972; the 1975			country, arms control,		United Nations	and liable for	Committee	the 1967	al and non-	
Space Registration			the freedom of		Committee on	damage caused by	on the	Outer	governmental	
Convention:15.9.197			exploration, liability		the Peaceful	their space objects.	Peaceful Uses	Space	organizations,	
5;the 1979 Moon			for damage caused by		Uses of Outer	(art VII).	of Outer	Treaty –	have observer	
reaty: 11.7.1984			space objects, the		Space (COPUOS)		Space	191	status with	
			prevention of harmful		is the primary	Convention on	(COPUOS)	Parties;	COPUOS and its	
Current n. of			interference with		international	Liability for Space			Subcommittees ¹³	
Contracting Parties:			space activities and		forum for the	imposes absolute	It is also	1972		
he 1967 Outer Space			the environment, the		development of	liability and an	supported by	Space	They represent	
reaty:102;			notification and		laws and	obligation to pay	a Legal	Liability	different	
he 1972 Space			registration of space		principles	compensation for	Subcommitte	Conventio	geographical	
iability			activities, scientific		governing outer	damage caused by	е	n – 88	regions.	
convention:89; the			investigation and the		space.	its space object on		parties;		
1975 Space			exploitation of natural			the surface of the				
Registration			resources in outer		COPUOS has 74	Earth or to aircraft		the 1975		
Convention:60; the			space.		Negotiating	in flight.'		Space		
979 Moon Treaty:15					Parties.			Registratio		
1575 Widon Heaty.15						Dispute Settlement		n		
					The United			Conventio		
					Nations Office			n- 56		
					for Outer Space	1		Parties:		

¹¹ Non-binding principles also govern the conduct of states with respect to specific activities in this area, eg.: Declaration of Legal Principles Governing the Activities of States in the Exploration and Use of Outer Space; Principles Governing the Use by States of Artificial Earth Satellites for International Direct Television Broad-casting; Principles Relating to Remote Sensing of the Earth from Outer Space; Principles Relevant to the Use of Nuclear Power Sources in Outer Space; Declaration on International Cooperation in the Exploration and Use of Outer Space for the Benefit and in the Interest of All States, Taking into Particular Account the Needs of Developing Countries.

¹² Under international law, there is no definition of 'outer space'. The Committee on United Nations Committee on the Peaceful Uses of Outer Space has been addressing this issue to conceptualise the definition and delimitation of Outer space, including in relation with the limits of air space. See http://www.oosa.unvienna.org/oosa/SpaceLaw/national/def-delim/question.html

¹³ See for instance Report of Report of the Committee on the Peaceful Uses of Outer Space General Assembly Official Records Sixty-seventh Session Supplement No. 20, para 12-15, indicating all observers organisation (international governmental and non-governmental, including with permanent status) attend the meeting. Available at: http://www.oosa.unvienna.org/pdf/gadocs/A_67_20E.pdf

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					Secretariat for the Legal Subcommittee of COPUOS.			the 1979 Moon Treaty – 13 Parties		
			Specific – Applicable	to Geoengineering met	hods and related ac	tivities at sea				
			1982 UNITED NA	TIONS CONVENTION ON		EA (LOSC)				
		Substanting Seems All an		Scope for Participation			015 -1	-1		
		Substantive Scope: All ac	tivities undertaken in, and	naving an impact up on Scope: Global oceans a		, ,	. Oir, cioua seeain	<i>g)</i>		
Yes	No	Yes	No	No No	No	Strong	Yes	High	Low	Yes
						_		_		
Entered into	Global treaty	Meetings of the States Parties	Strong national		Meeting of	National		See n of	Non-state actors	Evolution i
Force:16.11.1994	governing	are convened by the UN	Implementation:		States Parties to	Enforcement of		contractin	participation	permitted
	states'	Secretary General when	Laws and regulations		the Convention	laws and regulation		g Parties	allowed, but	through
Current n. of	activities and	necessary (art 319.(2)(e).	to be adopted at		convened on an	adopted pursuing		(except	generally small	amendmen
Contracting Parties: 164 ¹⁴	jurisdiction in		national level		ad hoc basis.	UNCLOS		the US)	RoP 18.4: NGOs	incorporati
164	and in	Amendments can be	pursuant the		D. A. Alba	la alcada a liabilita canad			"recognised by	n of other
	relation to	submitted to the Secretary	objectives/general		But the	Includes liability and			the ECOSOC	generally
	different	General pursuing procedure	obligations of the		following are	responsibility			whose fields of	accepted
	maritime	of art 312 – or a simplified procedure of art 313.	convention.		permanent institutions:	provisions with respect to the			competence are relevant to the	agreement
	zones,	procedure of art 313.	No financial incentives		institutions:	respect to the conduct in the Area			law of the sea	and
	including environment	A special procedure is	ino ililaliciai ilicelitives		Commission on	(Art 139),arising			and other NGOs	standards, and
	al	required for amendments to			the Limits of the	from enforcement			invited by the	adoption o
	protection/M	provisions relating to			Continental	measures (art 232,			Meeting of the	implementi
	RS.	exclusively to activities in the			Shelf	235) and Marine			States Parties,	g
	1.5.	Area (Article 31)			Jacan	Scientific Research			which have	agreement
	For precise	, ca (, cae 51)				in the marine			demonstrated	and soft lav
	standards it				International	environment (art		1	their interest in	3010104
	refers to				Seabed	263) – these are		1	matters under	Mechanism
	"other				Authority	without prejudice			the	for
	accepted					with the application		1	consideration of	Amendmer
	agreements				International	of existing rules and		1	the Meeting may	s within the
	and				Tribunal for the	development of		1	also participate"	treaty
	standards"					further rules under			15	provide

¹⁴ CP the Agreement relating to the implementation of Part XI of the Convention:143; CP to the Agreement for the implementation of the provisions of the Convention relating to the conservation and management of straddling fish stocks and highly migratory fish stocks:79, only one including the US (Updated at 04 October 2012)
¹⁵ SPLOS/2/Rev.3/Add.1. 12 June 1997 – however participation has been small.

Legal Force	Precision of Obligations	Decision-Making Rules	Regulatory	Distribution of	Treaty-Based	Liability and	Scientific	Degree of	Degree of non-	Future
			Instruments & Incentives	Responsibility	Institutions	Enforcement	Input	State Participatio n & Representi	State Actors Participation & Representivity	Future Proofing
	(eg. LC/LP;IMO standards)				Law of the Sea	international law. (Article 304) Compulsory third-party settlement of dispute with a) International Tribunal of the Law of the Sea; b)ICJ; c) an arbitral tribunal or d) a special arbitration tribunal for cases on fisheries and protection of the marine environment – but limited to certain violations. For dispute exploitation/explor ation international seabed and ocean floor: Seabed Dispute Chamber of ITLOS			Restricted participation for Subsidiary Bodies Some specific rules are established under the convention. Observers cannot participate in closed sessions of subsidiary bodies.	engines for dynamism (See 'Decision- Making Rules')
			15	972 LONDON DUMPING						
		Substantive S	cope: Dumping activities at	Scope for Participation		ny other marine aeonai	neering?)			
		Substantive St	Jope. Damping activities at	Geographic Scope:		ny other manne geongi	iceing:/			
Yes	Yes	Yes	Yes	No	Yes	Medium	Yes	Medium	Medium	Yes
Entered into Force:30.8.1975 Current n. of	Specific objectives and obligations,	Unless otherwise provided, decisions shall be taken, elections determined and reports, resolutions and	Strong national Implementation:		Consultative/Spe cial Meeting Contracting Parties (CP);	Article X In accordance with the principles of international law	Scientific Group on Dumping ²² Ad Hoc Legal	Contractin g Parties: 87, balanced	Participation on International NGOs is allowed, and has been	Adaptability to scientific development

¹⁶ Observers can be invited to participate by the UN Secretary General in accordance with article 319 – no specific provisions in the convention for their accreditation. Consultation and cooperation with international and non-governmental organizations on matters of competence of the International Seabed Authority (Article 169)

		ASSESSMENT OF IN	TERNATIONAL TREATIES A	APPLICABLE, OR AT LE	AST ADAPTABLE, TO G	EOENGINEERING-RELAT	TED ACTIVITIES			
Legal Force	Precision of Obligations	Decision-Making Rules	Regulatory Instruments & Incentives	Distribution of Responsibility	Treaty-Based Institutions	Liability and Enforcement	Scientific Input	Degree of State Participatio n & Representi vity	Degree of non- State Actors Participation & Representivity	Future Proofing
Contracting Parties: Contracting Parties: 87	but main measures to be implemented at national level.	recommendations adopted by a <i>majority</i> of the Contracting Parties present and voting 17 Amendments to the Convention/Annexes 18 can be adopted by 2/3 majority of those present at a Meeting. They entry into force for the Parties which have accepted it on the 60 th day after two thirds of the Parties shall have deposited an instrument of acceptance of the amendment with the IMO secretariat. Thereafter the amendment shall enter into force for any other Party 30 days after that Party deposits its instrument of acceptance of the amendment.	prohibited approach - A permit must be obtained for dumping activities. Permitted unless prohibited approach, through listing in Annexes. Each Contracting Parties shall designate an appropriate authority or authorities to issue the permits required under the Convention. ²⁰ No incentive mechanism		International Maritime Organization (IMO) Secretariat The Compliance Group (subsidiary to the COP)	regarding State responsibility for damage to the environment of other States or to any other area of the environment, caused by dumping of wastes and other matter of all kinds, the Contracting Parties undertake to develop procedures for the assessment of liability and the settlement of disputes regarding dumping. 21 There are no compliance mechanisms under the London Convention.	Group of Experts Subsidiary Body on Scientific, Technical and Technological Advice Intergovernmental panel of experts on radioactive waste disposal at sea 23 See also: Procedures for the application of scientific advice in	between developed and developin g countries. Includes the US and China.	small (but influential) in practice 24 Only international organizations with specialised technical expertise relating to the objectives of the convention/prot ocol can be granted observers status. International NGOs can be granted consultative status, with the privilege of e.g. making statements on agenda items	(eg amendment process and expeditious procedure for amendment of Annexes; CCS debate under the Convention leading to amendment to Protocol; discussion on OIF within the LC-LP framework (see Resolutions LC-LP 1. (2008) and LC-LP.2 (2010) and
		Amendments to the Annexes enter into force for each Contracting Party immediately on notification				However, with the entry into force of the London Protocol on 26 March 2006,	respect of the London Dumping Convention		and intervention in meetings, and participate in closed sessions	details on the Protocol section below).

²² established by Resolution LDC.28(10)

Rule 29 rules of procedure

¹⁸ Procedure for preparation and consideration of amendments to the London Dumping Convention: See LDC.10(V) Procedures for the circulation of proposed amendments to the London Dumping Convention: See LDC.9(V)

²⁰ Art VI)

²¹ Art 11 – as amended in 1978-"Any dispute between two or more Contracting Parties concerning the interpretation or application of this Convention shall, if settlement by negotiation or by other means has not been possible, be submitted by agreement between the parties to the dispute to the International Court of Justice or upon the request of one of them to arbitration. Arbitration procedures, unless the parties to the dispute decide otherwise, shall be in accordance with the rules set out in the Appendix to this Convention.

²³ See terms of reference at http://www.imo.org/blast/blastDataHelper.asp?data_id=20889&filename=LC59%2829%29.pdf

²⁴ See for participation in IMO Rules governing the relationship with Non-governmental *International* Organisations; Rules of Procedure of IMO Governing bodies and committees,; guidelines on the Grant consultative status. See also http://www.imo.org/blast/blastDataHelper.asp?data_id=15954&filename=LDC30%2811%29.pdf

		ASSESSMENT OF IN	TERNATIONAL TREATIES A	APPLICABLE, OR AT LEAS	ST ADAPTABLE, TO	GEOENGINEERING-RELAT	ED ACTIVITIES			
Legal Force	Precision of Obligations	Decision-Making Rules	Regulatory Instruments & Incentives	Distribution of Responsibility	Treaty-Based Institutions	Liability and Enforcement	Scientific Input	Degree of State Participatio n & Representi vity	Degree of non- State Actors Participation & Representivity	Future Proofing
		of its acceptance to the IMO secretariat (expeditious procedure) and 100 days after approval by the meeting for all other Parties (tacit consent procedure), except for those which before the end of the 100 days make a declaration that they are not able to accept the amendment at that time.) 19				a set of Compliance Procedures and Mechanisms, pursuant to Article 11, were adopted in November 2007. It included the establishment of a subsidiary body the Compliance Group - that meets in parallel to the Meeting of Contracting Parties and provides advice to the Parties on such matters.	LDC.7(IV)		meeting.	Mechanisms for Amendment s within the treaty provide engines for dynamism (See 'Decision- Making Rules')
	·			1996 LONDON DUMPIN	IG PROTOCOL	L			l	
				Scope for Participatio						
		Substantive :	Scope: Dumping activities	at sea, including ocean Geographic Scope		d other marine geoengin	eering?)			
Yes	Yes	Yes – strong	Yes	No	Yes	Medium	Yes	Low	Medium	Yes - strong
Entered into Force: 24.3.2006 Current n. of Contracting Parties: 42	But national implementati on remains crucial	See above with respect to the Convention (Amendment to the Protocol Article 21) Amendement to Annexes (Article 22)	Strong National Implementation Prohibited Unless Permitted Approach: A permit must be obtained for dumping activities. Prohibited unless permitted approach through inverted list in Annexes. Each Contracting Parties shall designate an appropriate	No	Meeting of Contracting Parties/Special Meeting of Contracting Parties; IMO Secretariat	Strongly basedon national implementation- Article 15: the Contracting Parties undertake to develop procedures regarding liability arising from the dumping or incineration at sea of wastes or other matter. (=LC) Article 16 Details on		Contractin g Parties: 42	See above with respect to the Convention	Adaptability to scientific development (e.g. LC/LP Parties have amended Protocol to allow CCS activities under their regime; they have addressed OIF and have

¹⁹ Art.VI)

		ASSESSMENT OF IN	ITERNATIONAL TREATIES A	APPLICABLE, OR AT LEAS	ST ADAPTABLE, TO G	EOENGINEERING-RELAT	ED ACTIVITIES			
Legal Force	Precision of Obligations	Decision-Making Rules	Regulatory Instruments & Incentives	Distribution of Responsibility	Treaty-Based Institutions	Liability and Enforcement		Degree of State Participatio n & Representi vity	Degree of non- State Actors Participation & Representivity	Future Proofing
			authority or authorities to issue the permits required under the Convention. ²⁵ No incentive mechanism			the dispute settlement (negotiation, mediation, conciliation/arbitral procedure under Annex 3 or recourse to art. 287 UNCLOS). See above on compliance procedures				been discussin the possibilit amendm to the Protocol allow oth marine Geoengii ing activi to be consider in the fu' if they fa within th scope of LP and h th poten to cause harm to marine environn . Explici "Future Proofing
				1959 ANTARCTIC	TRFATY					Proofing
Substantive Scope	:Activities undert	aken within the geographic area of the control of t	of application, with special research on Ge	ticipation: Universal (wa focus on scientific rese coengineering technique	th limited decision-n arch, cooperation, in s both onshore and (spection and preservation offshore)			g. potentially includi	ng scientifi
Yes	No	Yes - but limited	No	No	Yes	Weak	No (formally)	Low	Low	Yes
tered into Force:		Decision making is limited to the contracting parties that	Weak National		Antarctic Treaty	Dispute settlement (art XI)	But Scientific Committee	50 Parties	Observer status	Mechan for
		demonstrate their interest	The treaty establishes		Consultative	(2.07.1)	on Antarctic	Treaty (of	non-Consultative	

²⁵ Art VI)

The treaty establishes

Meetings

Treaty (of

²⁶ It must be noted that some states claim sovereign rights over parts of the Antarctic area (ie. Argentina, Australia, Chile, France, New Zealand, Norway and the UK). Art IV provides that nothing in the Treaty should be considered as a renunciation, diminution or prejudice of these rights.

		ASSESSMENT OF IN	TERNATIONAL TREATIES A	APPLICABLE, OR AT LE	AST ADAPTABLE, TO G	EOENGINEERING-RI	ELATED ACTIVITIES			
Legal Force	Precision of Obligations	Decision-Making Rules	Regulatory Instruments & Incentives	Distribution of Responsibility	Treaty-Based Institutions	Liability and Enforcement	Scientific Input	Degree of State Participatio n & Representi vity	Degree of non- State Actors Participation & Representivity	Future Proofing
Current n. of Contracting Parties: 50 Parties to the Treaty (of which 28 are consultative parties)		in Antarctica by conducting substantial research activities there ("Consultative Parties"), such as the establishment of a scientific station or the despatch of a scientific expedition (art IX). Non-consultative Parties participate to the discussion but do not take part to the decision-making process. Measures, Decisions and Resolutions, are adopted by the Antarctic Treaty Consultative Parties (ATCM) by consensus. They give effect to the principles of the Antarctic Treaty and the Environment Protocol and provide regulations and guidelines for the management of the Antarctic Treaty area and the work of the ATCM. Decisions, which address internal organizational matters of the ATCM, and Resolutions, which are hortatory texts, are not legally binding on Contracting Parties. Measures can be legally binding only after approval by all contracting	key principles (eg. use of Antarctica for peaceful purposes only; freedom of scientific research; facilitation of international scientific cooperation; questions relating to the exercise of jurisdiction in Antarctica and preservation of living resources) and a system of inspection and general requirements		composed of: consultative Parties, Non- Consultative Parties, Observers and invited Experts (annual meetings since 1994) 27 Secretariat based in Buenos Aires (est. 2004	No liability	Research (SCAR) NGO with observer status with ATCM has been impotant to provide objective technical and scientific advice) Under direction of the ATCM the Secretariat has developed the Electronic Information Exchange System (EIES) as a central repository for this information	which 28 are consultative parties) but good geographic balance	Parties and to international governmental and non-governmental organizations. (eg The commission for the Conservation of Antarctic Marine Living Resources, the Scientific Committee on Antarctic Research and the Council of Managers of National Antarctic Programs, IOC (Intergovernmen tal Oceanographic Commission IOC) Observer status and consultation is regulated under the RoP (see in particular Rules 2 and 31) ²⁸	s within the treaty provide engines for dynamism (See 'Decision-Making Rules') See also Adoption of Madrid Protocol (below)

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²⁷ The meeting consists of representatives of: the Consultative Parties; non-Consultative Parties; Observers - currently the Scientific Committee on Antarctic Research (SCAR), the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) and the Council of Managers of National Antarctic Programs (COMNAP); invited Experts, such as the Antarctic and Southern Ocean Coalition (ASOC) and the International Association of Antarctica Tour Operators (IAATO).

Rules of Procedure available at http://www.ats.aq/documents/keydocs/vol_2/vol2_Volume_2_Complete_Document_e.pdf

		ASSESSMENT OF IN	TERNATIONAL TREATIES A	APPLICABLE, OR AT LEAS	T ADAPTABLE, TO	GEOENGINEERING-RELA	TED ACTIVITIES			
Legal Force	Precision of	Decision-Making Rules	Regulatory	Distribution of	Treaty-Based	Liability and	Scientific	Degree of	Degree of non-	Future
	Obligations		Instruments &	Responsibility	Institutions	Enforcement	Input	State	State Actors	Proofing
			Incentives					Participatio	Participation &	
								n &	Representivity	
								Representi		
								vity		

1991 ENVIRONMENTAL PROTOCOL TO THE 1959 ANTARCTIC TREATY

Scope for Participation: Universal (with limited decision-making)

Substantive Scope: Activities undertaken within the geographic area of application, with an impact on Antarctic environment and its ecosystems (eg. potentially including scientific research on Geoengineering techniques both onshore and offshore)

Geographic Scope: Regional – Antarctic Region ie. area south of 60 degrees South Latitude, including all ice shelves (excluding the High seas)²⁹

Yes	Yes	Yes	Yes	No	Yes	Medium	Yes	Low	Low	Yes
Entered into Force:	It contains 5	See above for 1959 Antarctic	Strong National		ATCM;	The parties	Committee on	37 Parties	Participation of	Mechanisms
14.6.1998	annexes with	Treaty	Implementation: EIA		Committee on	undertake to	Environmenta	(of which	non-state actors	for
	specific		under Annex I for any		Environmental	elaborate rules and	I Protection	26 are	is limited and	Amendment
Current n. of	provisions		activity related to		Protection (art	procedures relating	(art 11) to	consultativ	qualified.	s within the
Contracting Parties:			scientific research (art		11)	to liability for	provide	e parties) ³⁴		treaty
37 Parties (of which			8) Specific		Secretariat.	damage arising	advice and		See above for	provide
26 are consultative			environmental			from activities	recommendat		1959 Antarctic	engines for
parties) ³⁰			obligations included in			taking place in the	ion to the		Treaty	dynamism
			the Annexes. 31.			Antarctic treaty	Parties on the			(See
			Requirements for			area and covered by	implementati			'Decision-
			national measures to			the protocol (art	on of the			Making
			ensure compliance,			16).	protocol ³³			Rules')
			reporting, notification							
			and inspections.			Annex VI on				
						"Liability Arising				
			No financial incentive			from Environmental				
			mechanism			Emergencies" deals				
						with				
						"environmental				
						emergencies				
						related to scientific				
						research				
						programmes,				
						tourism and all				
						other governmental				
						and non-				

²⁹ It must be noted that some states claim sovereign rights over parts of the Antarctic area (ie. Argentina, Australia, Chile, France, New Zealand, Norway and the UK). Art IV provides that nothing in the Treaty should be considered as a renunciation, diminution or prejudice of these rights.

parties.

³⁰ http://www.ats.aq/devAS/site_search.aspx?cx=000635445009649447825%3Akhrnudg12og&cof=FORID%3A11&ie=UTF-8&q=status+of+ratification+environment+protocol+&sa.x=0&sa.y=0

The Protocol Prohibits any activity connected to mineral resources other than scientific research (art 7) and requires parties to establish a contingency response plans for environmental emergencies

³³ http://www.ats.aq/e/cep.htm

 $^{^{34} \} http://www.ats.aq/devAS/site_search.aspx?cx=000635445009649447825\%3Akhrnudg12og\&cof=FORID\%3A11\&ie=UTF-8\&q=status+of+ratification+environment+protocol+\&sa.x=0\&sa.y=0$

		ACCECCIMENT OF IN	TERNATIONAL TREATIES A	DDIICADIE OD ATIEAS	TADADTABLE TO G	COENCINEEDING DELAT	ED ACTIVITIES			
Legal Force	Precision of Obligations	Decision-Making Rules	Regulatory Instruments & Incentives	Distribution of Responsibility	Treaty-Based Institutions	Liability and Enforcement	Scientific Input	Degree of State Participatio n & Representi vity	Degree of non- State Actors Participation & Representivity	Future Proofing
	1			I	1	governmental		1	1	1
						activities in the Antarctic Treaty area for which advance notice is required under Article VII(5) of the Antarctic Treaty". (not yet into force) ³² Dispute Settlement (arts 18-19-20 +				
						Schedule)				
				1992 OSPAR CONVE	NTION.					
		Substantive :	Scope: Activities that migh	for Participation: North it cause pollution of the ri ic Scope: Regional – Nor	naritime area (e.g. p		eding) ³⁵			
Yes	No	Yes	Yes	No	Yes	Medium	Yes	High	High	Yes - Strong
Entered into Force:25.3.1998 Current n. of Contracting Parties:16	General Obligations to prevent and eliminate pollution (art 2)	Decisions and recommendations by unanimous vote (if not possible ¾ majority) of contracting parties. A decision becomes binding for the parties that have voted it 200 days after its notification to the Executive Secretary, except for those notifying their inability to do so. For any other Party, it become binding upon notification of its ability to accept it/200 days after	Strong National Implementation: Parties to adopt programmes and measures for the prevention and elimination of pollution from landbased sources, including BAT and BEP ³⁶ Authorisation requires for dumping of waste and other matter		OSPAR Commission (Contracting Parties reps, meets usually annually); Secretariat; 5 main committees ³⁷ , some of which are in turn supported by working groups; Advisory Groups Coordination	Commission assesses compliance with the convention and, when appropriate decides upon and call for steps to bring about full compliance with the convention, and decisions adopted thereunder, and promote implementation of recommendations,	See committees providing advice to the OSPAR commission. [See 'Treaty- based institutions'] They produce reports	16 contractin g parties	Participation is allowed, encouraged and facilitated- 35 NGOs and 18 IGOs have observer status with the OSPAR Commission Observers can be admitted following unanimous vote of the Parties.	Adaptability to scientific development s (eg 2007 Amendment s to allow CO2 storage in geological formations- entred into force in 2011) Mechanisms for

³² Annex VI will enter into force after its approval by the Consultative Parties that participated in the Stockholm ATCM.
³⁵ However, 'current state of knowledge suggests that ocean fertilisation may not be a relevant mitigation option in the OSPAR area, as there is no evidence that iron is a limiting factor to phytoplankton growth in the area' Para 3.4. OSPAR Commission Report 2009 http://qsr2010.ospar.org/media/assessments/p00464_climate_change_mitigation_adaptation_final.pdf

³⁶ Best available technologies and best environmental practices.

³⁷[Hazardous substances and Eutrophication Committee; Offshore Industry Committee; Radioactive substances committee; Biodiversity Committee; and Environmental Impact of Human Activities committee]; See; committees

		ASSESSMENT OF IN	TERNATIONAL TREATIES A	PPLICABLE, OR AT LEAS	T ADAPTABLE, TO G	EOENGINEERING-RELAT	ED ACTIVITIES			
Legal Force	Precision of Obligations	Decision-Making Rules	Regulatory Instruments & Incentives	Distribution of Responsibility	Treaty-Based Institutions	Liability and Enforcement	Scientific Input	Degree of State Participatio n & Representi vity	Degree of non- State Actors Participation & Representivity	Future Proofing
		adoption. Recommendations are not binding. Amendments to the Convention are adopted by unanimous vote of contracting Parties. Amendments enter into force for those contracting parties which have rartified, accepted or approved it on the 30 th day after receipt of ratification, acceptance and approval by AT LEAST 7 CONTRACTING PARTIES. After that, for other parties they come into force 30 days after their own ratification, acceptance or approval. Annexes and their amendment: same that the convention, expect for annex	allowed under Annex II No financial incentive mechanism		Group; Heads of Delegation; Group of Jurists/Linguists; Committee of chairman and vice-chairman	including measures to assist contracting party to carry out its obligations. (art 23) No provision on liability Dispute Settlement via arbitration, if no otherwise agreed (art 32)			They can be a) any State which is not a contracting party or b) international governmental or any NGO the activities of which are related to the Convention. They can participate in meeting without right to vote and present to the Commission any information or reports relevant to the objectives of the Convention (art	Amendment s within the treaty provide engines for dynamism (See 'Decision- Making Rules')
		from Art 7 to be adopted by								
		¾ majority.		T				<u> </u>		
	Substanti	ve Scope: EIA for listed activities li		Participation: Limited (liverse transboundary im	ONMENTAL IMPACT UNECE Members only pact (some geoengir	y) neering field experiment	s or activities migh	ht have such im	ppact)	
Yes	Yes	Yes	Yes	Yes	Yes	Medium	Low	Medium	Low	Yes/No
Entered into Force:10.9.1997 Current n. of Contracting Parties:	Details on the circumstance s and the context of EIA for	Amendments to the convention by consensus, or as a last resort by ¾ majority vote.	Strong national Implementation: Parties to establish procedures for, and conduct, conduct EIA	Distinction between all Parties, Party of origin, Affected parties and Concerned parties	Meeting of the parties to the Convention (MOP) (meets	No liability provision; Dispute Settlement (Art 15)	No formal linkages with scientific bodies	Contractin g Parties : 45 (as of April 2012) (out of 56	Participation of non-state actors is provided for, but still limited in practice	Several amendments not yet into force (eg. Amendment
45 (as of April 2012)	projects likely	Amendment enters into force	for activities listed in		annually);	Implementation		Members		allowing

³⁸ See Rules of procedure 23 and 24 and ANNEX 2]

	T		NTERNATIONAL TREATIES A					T		T = :
Legal Force	Precision of Obligations	Decision-Making Rules	Regulatory Instruments & Incentives	Distribution of Responsibility	Treaty-Based Institutions	Liability and Enforcement	Scientific Input	Degree of State Participatio n & Representi vity	Degree of non- State Actors Participation & Representivity	Future Proofing
		•	•					•		
(out of 56 Members of UNECE)	to have a transboundar y effect Annexes indicate covered activities, content of EIA and criteria for including other activities.	on the 90 th day after receipt of ratification, approval or acceptance by at least ¾ Parties.	annex I that are likely to cause significant adverse transboundary impact. Early notification and consultation obligations based on EIA No financial incentive mechanism		UNECE Executive Secretary exercises secretariat functions; Working groups on EIA and SEA; Implementation Committee Bureau	committee reviews compliance with the convention triggered by submissions from concerned party, another party or members of the Public/NGOs; or on its own initiative. 39		of UNECE)	Public participation in the EIA process at national level is key in the convention. 40 The public, incl. NGOs, can participate in meetings, without right to vote. 41 As of 2011, only 5 accredited NGOs. NGOs could participate in MOP meetings and in working groups, but not present in Bureau Meetings. Some participation in Implementation Committee, but many agenda items are closed doors. They can provide information to the Committee via submissions.	accession upon approval of UN Parties not parties to UNECE) Kyiv protoc

 $^{^{39}} http://www.unece.org/fileadmin/DAM/env/eia/documents/ImplementationCommittee/2011_Structure_and_functions_operating_rules_etc/Implementation_Committee_procedures_rules.e.pdf$ http://www.unece.org/env/eia/implementation/implementation_committee.html

40 See Guidance http://www.unece.org/env/eia/pubs/publicpart_guidance.html

41 "The Public" under the convention is defined as " one or more natural or legal persons. (art 1 (x))

also

ASSESSMENT OF INTERNATIONAL TREATIES APPLICABLE, OR AT LEAST ADAPTABLE, TO GEOENGINEERING-RELATED ACTIVITIES											
Legal Force	Precision of	Decision-Making Rules	Regulatory	Distribution of	Treaty-Based	Liability and	Scientific	Degree of	Degree of non-	Future	
	Obligations		Instruments &	Responsibility	Institutions	Enforcement	Input	State	State Actors	Proofing	
			Incentives					Participatio	Participation &		
								n &	Representivity		
								Representi			
								vity			

Scope for Participation: Limited (UNECE Members only)

Substantive Scope: SEA for listed plans and programmes likely to cause significant adverse transboundary impact (- plans or programmes to undertake geoengineering research or potentially deployment might have such impact)

Geographic Scope: Regional (UNECE region, including the EU as Regional and Economic Integration Organisation –REIO)

Yes	Yes	Yes	Yes	Yes	Yes	Medium	No	Low	Low	?
Entered into Force:										
11.7.2010	Details on	See above re to the Espoo	Strong National	Distinction between	Meeting of the	No liability	No formal	Contractin	Participation of	
	procedure	Convention	Implementation:	Parties, parties of	parties to the	provision;	linkages with	g Parties :	non-state actors	
Current n. of	and		Specific requirements	origin and affected	Convention	Dispute Settlement	scientific	25	is provided for,	
Contracting	necessary		for screening, scoping	party	serving as a	(Art 20)	bodies	(out of 56	but still limited	
Parties:25 (out of 56	information		and preparation of		meeting of the			Member	in practice	
UNECE Members)	for SEA		environmental report		parties to the	Implementation		of UNECE)	See above re	
			for plans and		Protocol	committee in			Espoo	
	Annexes		programmes subject		((MOP/MOP);	reviewing			convention.	
	provides		to SEA. Public			compliance with the			Provisions on	
	guidance on		participation		UNECE	Protocol (see above			public	
	covered		provisions in the SEA		Executive	re Espoo			participation in	
	activities,		of plans and		Secretary	Convention)			the SEA	
	criteria for		programmes.Require		exercises				procedure.	
	determining		ments for consultation		secretariat					
	likely		with environmental		functions;					
	significant		and health authorities							
	effects and		as well as		Working group					
	other		transboundary		on EIA and SEA;					
	information		consultations.							
			Monitoring of		Implementation					
			significant		Committee;					
			environmental effect							
			of plans and		Bureau					
			programmes is also							
			required.							
			No financial incentive							
			mechanism							

1998 UNECE AARHUS CONVENTION

Scope for Participation: Regional (However, owing to a 2011 MOP decision to facilitate ratification by non-ECE parties, the Aarhus Convention could be considered no longer purely regional.⁴²

Substantive Scope: Public Participation, Access to Information and Access to Justice on Environmental Matters (might have indirect effects on geoengineering research projects and large-scale deployment)

		Ge	eographic Scope: Regional	(but potential for expa	nsion – see scope of	participation above)				
Yes	No	Yes	No	No	Yes	Medium	No	High	High	Yes

⁴² See MOP Decision IV/5 on accession to the Convention by non-United Nations Economic Commission for Europe member States, as adopted 1 July 2011 (ECE/MP.PP/2011/CRP.3)

	T		TERNATIONAL TREATIES A							T = .
Legal Force	Precision of Obligations	Decision-Making Rules	Regulatory Instruments & Incentives	Distribution of Responsibility	Treaty-Based Institutions	Liability and Enforcement	Scientific Input	Degree of State Participatio n &	Degree of non- State Actors Participation & Representivity	Future Proofing
								Representi vity		
Entered into Force:30.10.2001	General obligations	Amendment to the Convention: Decision by	Strong National Implementation:		Meeting of the parties;	Compliance Mechanism: Art 15	No formal linkages with	Parties : 46 (out of	Facilitated Participation	Adaptability to scientific
	and	consensus, or if not possible,	Parties to ensure			"non-	scientific	56		developme
Current n. of	principles	by ¾ majority vote of Parties	access to information,		UNECE	confrontational,	bodies	Member		S
Contracting Parties:		present and voting (Art 14).	public participation in		Secretariat;	non-judicial and		of UNECE)		(Eg.
Parties : 46 (out of 56 Member of UNECE)	[But information	Entry into force, 90 dfays after ratification, adoption or	the decision-making		Working Group	consultative nature for reviewing				Amendme
nember of UNECE)	on covered	acceptance of AT LEAST ¾ of	and access to justice on environmental		of the Parties;	compliance"				on on
	activities and	these Parties, unless	matters. Reporting		of the raities,	Compliance				geneticall
	information	otherwise stated	provisions.		Compliance	Compliance				modified
	required are				Committee;	Procedure triggered				organisms
	included]		No financial incentive		Task Forces	by Submission from				
			mechanism			a Party about its				
						own [none thus far]				
						or another party				
						compliance [1 submission thus				
						far]; referrals by the				
						Secretariat [none				
						thus far]; or				
						communication by				
						the public, NGOs or				
						others [78 since				
						2001] ⁴³ .				
						No liability				
						provision				
						Dispute Settlement				
	1			1		provision	1			

See also Decision 1/7, Compliance Committee and Procedures for Review of Compliance, (2001)
 See http://www.unece.org/fileadmin/DAM/env/documents/2005/pp/ece/ece.mp.pp.2005.2.add.2.e.pdf