

Convention on the Conservation of Migratory Species of Wild Animals

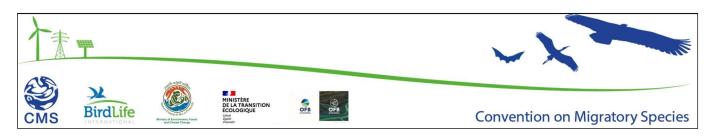


7th Meeting of the CMS Multi-Stakeholder Energy Task Force

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ETF7/Inf.7

CMS ETF GEOGRAPHIC EXPANSION STRATEGY





The Government of India, through the Ministry of Environment, Forest and Climate Change were recognized as Champion Plus for their generous support and commitment towards Making energy safe for wildlife for the period 2020-2023. The operations of the Energy Task Force have been funded with the contribution granted by India under the Migratory Species Champion Programme.



INTRODUCTION

The purpose of this CMS Energy Task Force (ETF) geographic expansion strategy (strategy) is to ensure that the Convention on Migratory Species (CMS) Energy Taskforce (ETF) is a truly global network and community-of-practice that works effectively towards reconciling renewable energy developments with the conservation of migratory species in a broader range of geographic contexts. Among access to a wealth of resources and information available across multiple languages and geographies, engaging with the CMS ETF allows stakeholders to get their guidance endorsed by an intergovernmental taskforce.

The <u>Modus Operandi</u> outlines the CMS ETF's aspiration for the operational scope to be global. This strategy sets out how the CMS ETF will expand its current operational reach from an African-Eurasian focus, increase membership and mobilise our target audiences in a greater range of geographies. A global expansion will potentially enable new funding opportunities, in turn increasing the ability of the CMS ETF to deliver on its aims, objectives, and workplan action items more effectively and efficiently.

The <u>ETF Workplan 2021-2024</u> (item 7.3) sets out an objective to scope and promote CMS ETF expansion globally, specifically highlighting the Americas and Asia as priority regions. This strategy will outline a proposed approach for expansion in priority regions during 2023-2024, which in turn can drive delivery of regional engagement and advocacy through regional workshops (item 7.4).

CMS ENERGY TASKFORCE GEOGRAPHIC EXPANSION STRATEGY (2023-2024)

Aims and objectives

The key aims of this geographic expansion strategy are:

- 1. Increase the number of CMS Parties who have representation in the CMS ETF, with particular emphasis on attracting new Parties from Americas and Asia.
- 2. Increase the number of development banks who have representation in the CMS ETF to facilitate collaboration on mainstreaming safeguards for renewable energy development into their investment procedures.
- 3. Increase observer organisations in priority areas to ensure a broad range of technical expertise across each Party state.

Stakeholder identification plan

Part 1 - Criteria

The first component of the expansion strategy is identifying which CMS Party States should be the targets of stakeholder engagement efforts. Table 1 defines the proposed criteria:

Criterion	Degree of priority
Party to the CMS	High
National State has plans for considerable uptake or expansion of renewable energy developments	High
CMS <u>partners</u> actively working on renewable energy developments in the identified priority country	High
Supporting national organisation (e.g., university, NGO, industry association) already a member of ETF	Medium

Region	Country	Whether party to the CMS
	Priority Expansion Region	uio ome
Americas	Argentina	Yes
	USA	No
	Chile	Yes
	Colombia	No
	Peru	Yes
	Canada	No
	Panama	Yes
Asia	Bangladesh	Yes
	India	Yes
	Mongolia	Yes
	Philippines	Yes
	Uzbekistan	Yes
	Australia	Yes
	New Zealand	Yes
	Cambodia	No

	China	No
	Indonesia	No
	Japan	No
	Lao PDR	No
	Malaysia	No
	Myanmar	No
	Nepal	No
	Republic of Korea	No
	Russia	No
	Singapore	No
	Thailand	No
	Viet Nam	No
	Papua New Guinea	No
	Non-Priority Expansion Re	gion
Africa	Madagascar	Yes
	Malawi	Yes
	Tanzania	Yes
	Uganda	Yes
	Angola	Yes
	Botswana	No
	Zambia	No
Europe	Italy	Yes
	Poland	Yes

Please refer to **Table 1** in Annex for further information on priority countries.

Part 2 - International Financial Institutions

The second key component of the strategy is identifying which international financial institutions (that are not already members of the CMS ETF) are key for the delivery of the CMS ETF objectives and for stakeholder engagement efforts. This table outlines the criteria for financial institutions to be considered a target of CMS geographic expansion stakeholder engagement.

Criterion	Degree of priority
Active investor in renewable energy development in CMS parties that are a priority for expansion of the CMS ETF	High
Active investor in renewable energy development in CMS party states that have representation on the CMS ETF	High
Active investor in renewable energy development projects with CMS member/observer NGOs	Medium

Priority IFIs identified:

Asia	Asian Development Bank
	Asian Infrastructure Investment Bank
Europe	KfW/German Development Bank
	FMO's 'Nederlandse Financierings- Maatschappij voor Ontwikkelingslanden N.V.'.(Also known as the Netherlands Development Finance Company)
Latin America	Brazilian Development Bank (BNDES)
	Development Bank of Latin America (CAF)

Please refer to **Table 2** in Annex for further information on the priority IFIs identified.

Part 3 - Observer partners

The CMS ETF also aims to expand its membership of observer organisations to include NGOs with expertise on renewable energy challenges in the priority states for expansion. Supporting organisations will be identified and assessed on an individual level, based on whether they are a listed observer of the CMS, operating in the priority country for expansion, and the degree of engagement they have with renewable energy and conservation issues.

Criterion	Degree of priority
Actively operating in priority states for expansion	High
Engages in energy policy/practice and biodiversity/species conservation	High

Stakeholder engagement plan

Once the priority stakeholders have been identified, a stakeholder engagement plan will be executed by the CMS ETF Coordinator/CMS. Where appropriate, CMS ETF members will also support the execution of the stakeholder engagement phase of the strategy.

This stakeholder engagement plan below sets out:

- Key stakeholders
- Purpose and method of engagement
- Proposed timeline.

Execution phase

The method of engagement will differ depending on the kind of stakeholder. However, broadly, the details of this engagement are as follows:

Purpose	Method
Getting the stakeholder to join	 Send invitation to join the CMS ETF
CMS ETF	 After acceptance, ensuring that there are no objections to the joining
Information sharing about the	 Invite to webinars discussing work of CMS ETF
work of CMS ETF	 Circulate newsletters to share information on work by other members and observers

	•	Invite to public meetings with the CMS ETF coordinator and (as appropriate) CMS ETF state representatives/members to discuss work of CMS ETF
Implementation of the workplan		Invite to workshops
of CMS ETF	•	Assist in the implementation of projects
	•	Fund projects through the Small Grants Fund
	•	Support other activities as and when needed

Strategy Implementation Monitoring Plan

To track progress against the implementation of this strategy, an implementation monitoring plan has been developed, below. The implementation monitoring plan sets out metrics in terms of number of ETF members recruited, projects conducted with them, meetings attended by them, and working group membership.

If resources allow, the monitoring plan may be accompanied by a brief (maximum five question) survey to gauge the focal point/representative's perspective on the activities undertaken (I.e., webinars, seminars, and workshops). This information could then be used to inform the development of future activities to ensure these effectively contribute to the goals of the geographic expansion strategy and are an efficient use of the ETF's resources.

ETF member added	Number and description of projects initiated	Meetings attended by the member	Working group membership	Any other criteria

ANNEX

Table 1: Countries prioritised for geographic expansion.

Country	Party to the CMS	Work of CMS ETF observers/ members	Planned increase in GW capacity of wind and/or solar development	Planned % of national renewable energy mix	Projected potential capacity for wind and/ or solar development	Reasons for prioritising
			Americas	- Priority Expansion	n Region	
Argentina	Yes	BirdLife (BL) Partner Aves Argentina - consulting work on renewable energy ¹ and have written position papers on conflict between renewable energy development and birds in Argentina ²	Increase capacity threefold 2021- 2030 (7.2GW) ³	Renewable energy planned to either reach 20% or 30% of the energy mix by 2030 ⁴		Active party of the CMS and plans to substantially increase its renewable energy expansion. Also aims to target 5000kms of new transmission lines ⁵ . One of the biggest extractors and producers of Lithium, which is a crucial component for EV batteries and RE storage systems.
USA	No	BL - Partner of East Asian Australasian Flyways Partnership	National offshore wind target of 30GW by 2030 ⁶	USA plans to generate 20% energy from wind by 2030, 35% by 2050 ⁷	Potential offshore wind capacity of 2000GW	BirdLife partner (American Bird Conservancy - ABC) already an observer of ETF and also advises on biodiversity friendly RE policy. USA also has massive plans of renewable energy expansion. Also,

¹ https://www.avesargentinas.org.ar/asesoria

² http://avesargentinas.org.ar/sites/default/files/Posicion%20Insitucional%20Energ%C3%ADa%20E%C3%B3lica_AAAOP.pdf#overlay-context=noticia/la-energ%25C3%25ADa-e%25C3%25B3lica-las-aves-y-el-ambiente

³ https://www.power-technology.com/comment/argentina-onshore-wind-power-capacity/

⁴ https://reglobal.co/argentinas-energy-transition-plan-2030-moving-towards-cleaner-generation/

⁵ https://dialogochino.net/en/climate-energy/374748-argentina-targets-huge-expansion-of-renewable-energy-by-2030/#:~:text=Argentina%20is%20aiming%20to%20generate,plan%20launched%20in%20late%20June.

 $^{^6 \} https://www.american progress.org/article/the-road-to-30-gigawatts-key-actions-to-scale-an-offshore-wind-industry-in-the-united-states/$

⁷ https://www.gevwindpower.com/wind-industry-news/the-rise-of-wind-power-in-the-us/#:~:text=The%20department%20of%20energy%20has,2030%20and%2035%25%20by%202050.

						the biggest renewable energy generator after China.
Chile	Yes	BLI Americas Flyway Project	At least 3072MW of solar power plants are currently under construction ⁸	Aim to be 70% renewable by 2030 and carbon neutral by 2050 ⁹	Chile has a solar power potential of 9KWh/m2 per day ¹⁰ , Chile's Atacama Desert region has 1800MW of solar potential ¹¹	Plans of massive renewable energy expansion, has the highest solar radiation in the world in the northern Atacama Desert, supportive policy environment. Also, a dominant supplier of Lithium.
Colombia	No	BLI Americas Flyway Project	2.5GW of solar and wind for 2023 targeted, have 350MW wind project in development 12	20% renewable energy mix solar and wind by 2030 ¹³	Colombia has a solar energy potential of 6KW/h m2/day	Due to its geography of having access to both Atlantic and Pacific Ocean, it has massive potential (and plans) for offshore wind energy expansion due to access to both Atlantic and Pacific Ocean. Falls along the Central Americas Flyway and has the highest bird species diversity in the world, several that could be affected due to RE expansion. ¹⁴
Peru	Yes	BLI Americas Flyway Project	Current plans in development for 394MW of wind and 280MW of solar ¹⁵	Peru's energy plan aims to have '6% other renewables (I.e., non- hydropower) by 2025	Peru has a total wind power potential of 20493 ¹⁶ to 22000MW ¹⁷	Plans of massive renewable energy expansion, also home to biodiversity-rich Amazonia and has several KBAs and IBAs which is inhabited by threatened and migratory bird species.

⁸ https://www.mordorintelligence.com/industry-reports/chile-solar-energy-market

⁹ https://www.weforum.org/agenda/2023/01/how-chile-is-becoming-a-leader-in-renewable-energy/

¹⁰ https://www.en-former.com/en/chile-well-positioned-for-green-future/

 $^{^{11} \,} https://www.researchgate.net/figure/Potential-capacity-factors-for-solar-and-wind-energy-in-the-North-of-Chile-Maps-on-the_fig1_344440099$

¹² https://www.thedialogue.org/analysis/is-colombia-on-track-to-make-the-shift-to-renewables/

¹³ https://www.nrel.gov/usaid-partnership/project-colombia.html

¹⁴ http://datazone.birdlife.org/userfiles/file/IBAs/AmCntryPDFs/Colombia.pdf

¹⁵ https://renewablesnow.com/news/perus-energy-min-says-close-to-11-gw-of-renewables-are-underway-738812/

 $^{^{16} \} https://www.flanders investment and trade.com/export/sites/trade/files/market_studies/Energy\%20 industry\%20 in\%20 Peru-2020.pdf$

¹⁷ https://www.nortonrosefulbright.com/en/knowledge/publications/1de7b7ac/renewable-energy-in-latin-america-peru

Canada	No	BLI Americas Flyway Project	Current plans for a growth of 5GW in wind and 2GW in solar by 2025 ¹⁸	By 2030, 90% of Canada's electricity generated by renewable energy ¹⁹		Plans of massive renewable energy expansion. Birds Canada (BLI partner) already has a Wind Energy Bird & Bat Monitoring Database and could benefit from ETF's operations. 20 Further, both the wind energy industry and the govt has various initiatives for protecting wildlife which shows their interest aligned with goals of ETF.
Panama	Yes	BLI Americas Flyway Project	Current plans for windfarms generating 90MW in development ²¹	Plan to have renewables be 15% energy generation by 2030 and 70% by 2050 ²²	Panama has a total offshore wind potential of 12GW ²³	Has ambitious plans of renewable energy expansion, has many KBAs and IBAs and Panama Audubon Society (BLI partner) also has initiatives on conservation in Bay of Panama
			Asia –	Priority Expansion R	Region	
Bangladesh	Yes	East Asian Australasian Flyways Partnership – sites work	Insignificant (below 1GW) – only 1 plant online 2023 ²⁴ ,,	9 small plants scheduled down the line ²⁵	Potential for 150GW of wind and 156GW solar ²⁶	One of the most climate-vulnerable countries and has set high RE goals. Also, has a huge biodiversity when it comes to natural habitats and migratory species, which could be impacted by RE expansion.
India	Yes	ourporter of enetial	India set target in 2023, to annually auction 8GW of wind	India set target to increase renewable energy capacity to		Funds the ETF already, and supports AVISTEP, so ample data available. Plans to build world's

¹⁸ https://renewablesassociation.ca/news-release-canada-added-1-8-gw-of-wind-and-solar-in-2022/#:~:text=Canada%20added%20more%20than%201.8,term%20(2023%2D5).

 $^{^{19}\} https://www.canada.ca/en/employment-social-development/programs/agenda-2030/afforadable-clean-energy.html$

²⁰ https://naturecounts.ca/nc/wind/main.jsp

 $^{^{21} \,} https://www.centralamericadata.com/en/search?q1=content_en_le%3A%22wind+turbines%22\&q2=mattersInCountry_en_le%3A%22Panama%22wind+turbines%22&q2=mattersInCountry_en_le%3A%22Panama%22wind+turbines%22&q2=mattersInCountry_en_le%3A%22Panama%22wind+turbines%22&q2=mattersInCountry_en_le%3A%22Panama%22wind+turbines%22&q2=mattersInCountry_en_le%3A%22Panama%22wind+turbines%22&q2=mattersInCountry_en_le%3A%22Panama%22wind+turbines%22&q2=mattersInCountry_en_le%3A%22Panama%22wind+turbines%22&q2=mattersInCountry_en_le%3A%22Panama%22wind+turbines%2A%22wind+turbines%2A%2Awind+turbines%2Awin$

²² https://www.irena.org/-/media/Files/IRENA/Agency/Publication/2018/May/IRENA_RRA_Panama_2018_En.pdf

²³ https://gwec.net/wp-content/uploads/2021/06/Panama_Offshore-Wind-Technical-Potential_GWEC-OREAC.pdf

²⁴ https://www.dhakatribune.com/bangladesh/2022/10/31/construction-of-first-turbine-of-coxs-bazar-wind-power-plant-completed

 $^{^{25}\} https://www.tbsnews.net/bangladesh/energy/countrys-first-big-leap-wind-energy-december-462702$

²⁶ https://energytracker.asia/solar-and-wind-power-potential-in-bangladesh/

		mapping tool AVISTEP ⁹	power projects until 2030 ²⁷ India has a target to have 30GW of offshore wind installations by 2030	500GW by 2030 – meeting 50% energy requirement through renewables ²⁸		largest solar farms and has massive capacity for onshore and offshore wind as well but has poor siting of some developments. Some of the places for biggest expansion of RE also the habitat for vulnerable and critically endangered bird species.
Mongolia	Yes	East Asian Australasian Flyways Partnership – sites work	Currently the ADB are funding solar and wind development in Mongolia to be completed in 2024 ²⁹	GCF are also funding a large solar project in Mongolia 30 as part of assisting Mongolia reach its target for renewables to be 30% of power capacity by 2030		Already engages with multilateral institutions (including ETF member ADB) in for RE expansion.
Philippines	Yes	East Asian Australasian Flyways Partnership – sites work	Current feasibility studies are looking at launching 3GW of windfarms by 2040 ³¹	The Philippines has a target of 35% renewable energy	World Bank roadmaps outline The Philippines could deploy 21GW of offshore wind by 2040 ³³	It has plans to become a RE leader in SE Asia so substantial plans of RE expansion
Uzbekistan	Yes	BL Partner USPB - supporter of spatial mapping tool AVISTEP	Targets development of 12GW of solar and	Uzbekistan targets min. 25% energy production from	Forecast potential wind energy deployment 520GW ³⁶	Actively engages with CMS and will be hosting the next COP and plans in place to extend AVISTEP.

²⁷ https://www.reuters.com/business/energy/india-annually-invite-bids-8-gw-wind-power-projects-2030-govt-order-2023-01-12/#:~:text=a%20month%20ago-

[,] India %20 to %20 annually %20 invite %20 bids %20 for %208 %20 GW %20 wind, to %20 2030 %2 C %20 govt %20 or der %20 says &text = NEW %20 DELHI %2 C %20 Jan %20 12 %20 [Reuters, capacity %2 C %20 a %20 government %20 or der %20 said.

²⁸ https://pib.gov.in/FeaturesDeatils.aspx?NoteId=151141&ModuleId%20=%202

²⁹ https://www.adb.org/news/features/unlocking-mongolias-rich-renewable-energy-potential#:~:text=The%20country's%20combined%20wind%20and,clean%20electricity%20generation%20per%20year.

³⁰ https://www.greenclimate.fund/stories/mongolia-ambition

³¹ https://www.energymonitor.ai/tech/renewables/the-philippines-makes-its-first-move-towards-offshore-wind/

³² https://www.pinsentmasons.com/out-law/news/philippines-publishes-national-renewable-energy-programme-to-2040

³³ https://www.offshorewind.biz/2022/11/11/philippines-has-31-gw-of-proposed-offshore-wind-projects-president-greenlights-ow-green-hydrogen-plan/#:~:text=According%20to%20the%20World%20Bank's,and%2040%20GW%20by%202050.

³⁶ https://www.asiawind.org/research-data/market-overview/uzbekistan/

			wind capacity by 2030 ³⁴	renewable sources by 2030 ³⁵		
Australia	Yes	East Asian Australasian Flyways Partnership – sites work	targets for 9GW wind by 2040 ³⁷ . Current	Australia has pledged to increase share of renewable energy in national market to 82% by 2030 ³⁹	Australia has potential to generate 7000TWh/yr of solar and wind energy ⁴⁰ - 4963TW of wind ⁴¹	Ambitious plans for renewable energy and has a lot of potential for expansion and extraction of rare earth elements and critical minerals. Further, the government already engages in reducing biodiversity impacts of offshore wind farms. 42
New Zealand	Yes	East Asian Australasian Flyways Partnership – sites work	Expected installed wind capacity to reach 3.5GW by 2030 ⁴³ - 20% of total energy	New Zealand has targets for 100% renewable electricity generation by 2030 ⁴⁴		Already has around 80% of electricity coming from renewable sources and plans to increase it to 100%, but no reference to biodiversity conservation.
Cambodia	No	East Asian Australasian Flyways Partnership – sites work	Expected to reach 1815MW solar power on grid by 2030 ⁴⁵ . Proposals have been presented for 11GW wind power installed by 2025 and 16GW by 2030 ⁴⁶		Cambodia has forecast wind energy potential of 3665GWh per year ⁴⁷	Already engages with multilateral institutions to support its energy transition, including ETF member ADB. 48 Home to rich ecosystems, diverse set of migratory species and many KBAs and IBAs.

³⁴ https://www.ebrd.com/news/2022/ebrd-promotes-wind-power-generation-in-uzbekistan.html#:~:text=Uzbekistan's%20renewables%20deployment%20plan%20targets,economy%20achieve%20its%20ambitious%20objective.

³⁵ https://www.iea.org/reports/uzbekistan-energy-profile/sustainable-development

³⁷ https://hsfnotes.com/environmentaustralia/2022/03/31/winds-of-change-an-update-on-australias-offshore-wind-industry/

³⁸ https://cosmosmagazine.com/greenlight-project/wind-energy-map-regional-aus/

³⁹ https://www.pinsentmasons.com/out-law/analysis/powering-australia-australias-energy-mix-in-a-decarbonising-world#:~:text=To%20achieve%20Australia's%20updated%20emissions,)%20to%2082%25%20by%202030.

⁴⁰ https://reneweconomy.com.au/the-staggering-numbers-behind-australias-green-energy-opportunity/#:~:text=Using%20just%202%20per%20cent,a%20year%20of%20renewable%20electricity.

⁴¹ https://cosmosmagazine.com/greenlight-project/wind-energy-map-regional-aus/

⁴² https://www.dcceew.gov.au/environment/epbc/publications/impacts-on-birds-from-offshore-wind-farms-australia

⁴³ https://www.sciencedirect.com/science/article/pii/S2666123322000459#:~:text=It%20is%20expected%20that%20the,of%20New%20Zealand's%20electricity%20system.

⁴⁴ https://www.mbie.govt.nz/building-and-energy/energy-and-natural-resources/energy-generation-and-markets/offshore-renewable-energy/#:~:text=Offshore%20renewables%20such%20as%20wind,net%2Dzero%20emissions%20by%202050.

⁴⁵ https://www.undp.org/cambodia/news/renewable-energy-enhance-economic-benefits

⁴⁶ https://www.thebluecircle.sg/news-tbc/2021/5/17/time-for-wind-power-in-cambodia

⁴⁷ https://www.asiawind.org/research-data/market-overview/cambodia/

^{48 5} https://www.adb.org/news/adb-supporting-cambodia-energy-transition-program

China	No	East Asian Australasian Flyways Partnership – sites work	China has plans to boost wind and solar power capacity to 1200GW by 2030 ⁴⁹	China plans under its 14 th 5-year plan to have a renewable consumption share of 33%, with renewables being 50% incremental energy ⁵⁰	China has a wind and solar power generation potential of 95.84PWh ⁵¹	Generates highest renewable energy in the world (its solar capacity is more than the rest of the world combined) and plans to keep increasing further. Local NGO, CBCGDF, already an observer of ETF and actively engages in ETF operations and functioning.
Indonesia	No	East Asian Australasian Flyways Partnership – sites work		Target is 23% of energy mix from renewable sources by 2030 ⁵²	Approx. wind power potential in Indonesia is est. between 9500MW ⁵³ and 34000MW ⁵⁴	Massive plans of RE expansion, but still has issues with energy access. Upscale and uptake of RE could impact biodiversity in terms of rich forests and animal species.
Japan	No	East Asian Australasian Flyways Partnership – sites work	By 2040 Japan plans to have between 30 and 45GW of offshore wind production ⁵⁵ and 10GW of offshore wind by 2030 ⁵⁶	Japan aims to have 50-60% renewable energy by 2050 ⁵⁷	Japan has estimated potential 608GW of offshore wind and 144GW onshore wind capacity ⁵⁸	Lack of space could impact solar energy uptake so there will be massive expansion of offshore and onshore wind energy that could affect migratory species.
Lao PDR	No	BL - supporter of spatial mapping tool AVISTEP	Development of 1.2GW wind farm underway in Southern Laos ⁵⁹ . There are 7.6GW of		Laos capacity for solar expected to range 10,000MW to 15,000MW and wind est. 100,000MW ⁶¹	Massive RE expansion plans as it does not only plan to utilise it but also has an export-oriented energy policy in SE Asia, as 80% of

⁴⁹ https://www.reuters.com/world/china/china-aims-push-wind-solar-capacity-beyond-1200-gw-by-2030-2020-12-12/

 $^{^{50} \} https://www.efchina.org/Blog-en/blog-20220905-en\#: ``:text=The \%20 new \%2014 th \%20 RE \%20 FYP, share \%20 could \%20 exceed \%2050 \%20 percent.$

⁵¹ https://link.springer.com/article/10.1007/s43979-022-00020-w

⁵² https://www.indonesia-investments.com/news/news-columns/wind-power-generation-in-indonesia-what-are-the-challenges-opportunities/item9505?

⁵³ https://www.asiawind.org/research-data/market-overview/indonesia/

⁵⁴ https://penerbit.brin.go.id/press/catalog/download/562/476/11490-1?inline=1

⁵⁵ https://www.japantimes.co.jp/news/2023/02/05/business/offshore-wind-eez/

⁵⁶ https://www.nature.com/articles/d42473-022-00217-8

⁵⁷ https://www.europarl.europa.eu/RegData/etudes/BRIE/2021/698023/EPRS_BRI(2021)698023_EN.pdf

⁵⁸ https://www.offshorewind.biz/2022/09/19/japan-the-winds-of-change/#:~itext=Japan%20has%20an%20estimated%20potential,leader%20in%20Wind%20Energy%20production.

⁵⁹ https://renewablesnow.com/news/wind-farm-of-up-to-12-gw-to-be-built-in-laos-report-798316/

⁶¹ https://english.news.cn/asiapacific/20220201/72031ac653874f43889301829914451f/c.html

			solar plants in operation or under construction in the country ⁶⁰			energy sold to Thailand and Vietnam. ⁶²
Malaysia	No	East Asian Australasian Flyways Partnership – sites work	1000MW Solar projects proposed during 2021 ⁶³	Malaysia targets 31% energy mix renewable 2025 and 40% 2035 ⁶⁴	Estimated Malaysia has capacity to generate 500-2000MW of wind energy ⁶⁵	The government has introduced Green Investment Tax Allowance, through which companies are granted allowances for adopting RE in their operations so there will be industry-led RE expansion and could benefit from ETF guidance.
Myanmar	No	East Asian Australasian Flyways Partnership – sites work	Memoranda of Understanding signed on 3 projects – combined – 4GW across Myanmar ⁶⁶	Plans for 12% energy mix to be renewable by 2025 ⁶⁷	Solar energy estimated capacity of 27GW ⁶⁸	Not very ambitious RE expansion plans but can be encouraged to do it the right way, especially because of the work with EAAFP.
Nepal	No	BL Partner Bird Conservation Nepal- supporter of spatial mapping tool AVISTEP	By 2030, increase clean energy generation to 15GW, with 5-10 per cent coming from miniand microhydropower plants, solar panels, wind, and bioenergy, ensuring 15 per cent of total energy demand is met by		Nepal has est. Capacity of 47.6GW solar and 1.6GW of wind energy – 60% of wind energy being in Annapurna 70	Because of its geography, it has considerable RE potential but is also biodiverse. Due to AVISTEP operations, updated data available on sensitivity mapping.

⁶⁰ https://renewablesnow.com/news/wind-farm-of-up-to-12-gw-to-be-built-in-laos-report-798316/

⁶² https://asia.nikkei.com/Business/Energy/Southeast-Asia-s-battery-Laos-embraces-wind-power-to-sustain-energy-exports

⁶³ https://abl-group.com/all-media/blog/renewable-energy-landscape-in-malaysia/

 $^{^{64} \,} https://solar quarter.com/2023/01/25/malaysia-renewables-growth-hindered-by-unrealistic-targets-and-absence-of-robust-policies-says-report/$

⁶⁵ https://www.legal500.com/developments/thought-leadership/26899/#:~:text=IMPSA%20had%20estimated%20that%20Malaysia,of%20power%20from%20wind%20energy.

⁶⁶ https://www.asiawind.org/research-data/market-overview/myanmar/

⁶⁷ https://www.trade.gov/country-commercial-guides/burma-energy#:~:text=Under%20the%20civilian%2Dled%20government,to%20be%20renewable%20by%202025.

 $^{^{68} \} https://www.nortonrosefulbright.com/en/knowledge/publications/d63c2e71/renewable-energy-snapshot-myanmar and the state of the$

⁷⁰ https://www.sciencedirect.com/science/article/pii/S0960148121013185

			clean energy sources. The unconditional target is 5GW ⁶⁹			
Republic of Korea	No	BL - Partner of East Asian Australasian Flyways Partnership	Planned increase from 12GW currently to 60GW by 2030, 300GW by 2050 ⁷¹	ROK aims for 34% total energy to be renewable by 2030 ⁷²	Projections indicated ROK could have 72GW of 'renewable' capacity by 2030 ⁷³	Already engages with multilateral institutions like EU, ADB, on various aspects of RE technologies.
Russia	No	BL - Partner of East Asian Australasian Flyways Partnership		Russia aims to have 10% renewable energy by 2040 ⁷⁴		Very limited RE usage and weak ambitions. Through ETF, it can be encouraged to improve RE goals and do it the right way.
Thailand	No	BL Partner Bird Conservation Society of Thailand- supporter of spatial mapping tool AVISTEP	Thailand targets 3GW of wind energy production by 2036 ⁷⁵	Thailand plans for renewable energy to make up 30% energy mix by 2036 ⁷⁶	Thailand has technical potential for 13-17GW of onshore wind 77	Has high potential for RE, also a part of AVISTEP so data available to promote goals of ETF.
Viet Nam	No	BL associate Viet Nature Conservation Centre - supporter of spatial mapping tool AVISTEP	•	Viet Nam aims for renewables to account for 33% energy produced by 2030 and 55% by 2050 ⁷⁹ .	Viet Nam projected to have capacity to increase offshore wind 11 to 25GW by 2035 ⁸⁰	Has high potential for RE, also a part of AVISTEP so data available to promote goals of ETF.

⁶⁹ https://unfccc.int/sites/default/files/resource/NepalLTLEDS.pdf

⁷¹ https://energytracker.asia/wind-energy-in-south-korea-opportunities-and-challenges/

⁷² https://www.trade.gov/country-commercial-guides/south-korea-energy-carbon-neutrality-initiatives#:~:text=Based%20on%209th%20Plan%2C%20South,compared%20to%20today's%2015%20percent.

⁷³ https://www.woodmac.com/press-releases/south-korea-could-be-more-ambitious-with-renewables-target-in-9th-basic-plan/

⁷⁴ https://www.centrumbalticum.org/files/5176/BSR_Policy_Briefing_3_2022.pdf

⁷⁵ https://www.mordorintelligence.com/industry-reports/thailand-wind-energy-market

⁷⁶ https://www.evwind.es/2022/10/25/chinese-wind-turbines-fuel-thailands-green-transition/88504#:~:text=The%20Thai%20government%20has%20proposed,cooperation%20with%20its%20Chinese%20partner.

⁷⁷ https://www.evwind.es/2019/12/13/wind-power-industry-calls-for-additional-7-gw-of-wind-energy-to-be-installed-in-thailand-by-2037/72474

⁷⁸ https://www.reuters.com/business/sustainable-business/vietnam-says-aes-corp-intends-develop-13-bln-wind-farm-2022-07-29/#:~:text=The%20country%20currently%20has%20about,2045%2C%20according%20to%20state%20media.

⁷⁹ https://climate-

 $laws.org/geographies/vietnam/climate_targets/Energy\#:::text=National%20laws%20and%20policies\&text=By\%202030\%2C\%20renewable%20energy\%20including,least%2033%25%20of%20electricity%20produced.\&text=By\%202050%2C\%20renewable%20energy%20including,least%2033%25%20of%20electricity%20produced.&text=By\%202050%2C\%20renewable%20energy%20including,least%2033%25%20of%20electricity%20produced.&text=By\%202050%2C\%20renewable%20energy%20including,least%2033%25%20of%20electricity%20produced.&text=By%202050%2C%20renewable%20energy%20including,least%2033%25%20of%20electricity%20produced.&text=By%202050%2C%20renewable%20energy%20including,least%2033%25%20of%20electricity%20produced.&text=By%202050%2C%20renewable%20energy%20including,least%2033%25%20of%20electricity%20produced.&text=By%202050%2C%20renewable%20energy%20including,least%2033%25%20of%20electricity%20produced.&text=By%202050%2C%20renewable%20energy%20including,least%2033%25%20of%20electricity%20produced.&text=By%202050%2C%20renewable%20energy%20including,least%2033%25%20of%20electricity%20produced.&text=By%202050%2C%20renewable%20energy%20including,least%20including,leas$

⁸⁰ https://www.mayerbrown.com/-/media/files/perspectives-events/publications/2022/09/offshore-wind-in-vietnam--harnessing-the-countrys-potential.pdf

Papua New Guinea	No	East Asian Australasian Flyways Partnership – sites work		Papua New Guinea has a national plan for 100% renewable energy by 2050 ⁸¹	It is a producer and exporter of oil and gas but a high amount (53%) of its energy consumption comes from RE, and it plans to expand it further. Also has prior experience in engaging with Multilateral institutions like IFC for RE projects. 82
		Africa -	- Non-priority Expan	sion Region	
Madagascar	Yes	Power Africa – Energy grid development ⁶⁷	Rio Tinto develop 1 st Madagascar wind project - 12MW		Plans to expand access to Renewable Energy and has prior experience engaging with multilateral institutions such as World Bank and USAID. ⁸³
Malawi	Yes	Power Africa – solar and energy grid development ⁶⁸	Currently 1 significant wind farm development – generating 150MW ⁸⁴		High level of energy poverty existent in the country but plans for renewable energy development.
Tanzania	Yes	Power Africa – solar development and rural electrification ⁷⁵	Have plans for 2GW of projects ⁸⁵ , and existing projects produce 2.4MW ⁸⁶		High amount of dependence on hydropower for energy generation but droughts in the country leading to the government to start transitioning to renewable energy.
Uganda	Yes	Power Africa – hydro and solar development ⁷⁸	On existing plans, wind capacity will increase to 3.5GW by 2025 ⁸⁷		Untapped potential in terms of RE development but plans to expand it in collaboration with multilateral institutional support and other

⁸¹ https://pressroom.ifc.org/all/pages/PressDetail.aspx?ID=18358

⁸²https://pressroom.ifc.org/all/pages/PressDetail.aspx?ID=27521#:~:text=Papua%20New%20Guinea%20is%20a,consumption%20comes%20from%20renewable%20sources.

⁸³ https://www.worldbank.org/en/news/press-release/2023/04/07/madagascar-afe-set-to-expand-access-to-renewable-energy-and-digital-services-thanks-to-400-million-credit

⁸⁴ https://www.power-technology.com/marketdata/mzimba-wind-farm-malawi/#:~:text=Development%20Status-

[,] Post %20 completion %20 of %20 the %20 construction %2C %20 the %20 project %20 is, to %20 get %20 commissioned %20 in %202023. & text = The %20 power %20 generated %20 the %20 the %20 to %20 be %20 to %20 the %20 power %20 generated %20 to %20 the %20 power %20 generated %20 generat

⁸⁵ https://renews.biz/79703/masdar-eyes-2gw-tanzania-renewables-pipeline/

⁸⁶ https://www.power-technology.com/features/a-look-at-tanzanias-first-wind-farm/

⁸⁷ https://www.ijsrp.org/research-paper-0821/ijsrp-p11621.pdf

						international partners to fulfil its energy requirements.
Angola	Yes		Angola aims to add 0.1GW of solar and wind each by 2025 ⁸⁸		Angola has capacity for 16GW of solar and 4GW of wind energy ⁸⁹	Has prior experience in engaging with multilateral institutions like AfDB in terms of RE, through the Sustainable Energy Fund for Africa (SEFA). ⁹⁰
Botswana	No	infrastructure development ⁸⁰	There are min. 450MW solar and wind developments planned in Botswana over coming 4-5 years ⁹¹	Botswana plans 15% country energy mix renewable 2030 50% renewable 2036 92		Has prior experience in engaging with multilateral institutions like World Bank for expansion of RE and ensuring energy access and security. 93
Zambia	No	land solar	There are a min. 430MW of wind and solar developments planned in Zambia ⁹⁴	Zambia plans to meet 30% of its energy needs with renewable energy (excluding large hydro) by 2030 ⁹⁵		Has prior experience of engaging with multilateral institutions like GCF for RE uptake and expansion. ⁹⁶

			Europe – No	on-priority Expansion	Region	
Italy	Yes	I RI I — RANAWANIA	20GW of wind	Italy plans for 55% of total electricity consumption to come		Plans of massive expansion of RE, especially after €59 billion devoted to incentivize renewables between 2021–2026. 98 Further,

⁸⁸ https://global-climatescope.org/markets/ao/

⁸⁹ https://www.trade.gov/country-commercial-guides/angola-energy#:~:text=Angola%20holds%20great%20potential%20for,in%20hydropower%20throughout%20the%20country.

 $^{^{90}\} https://www.afdb.org/en/news-and-events/angola-african-development-bank-supports-renewable-energy-sector-59123$

⁹¹ https://www.dlapiper.com/en-gb/insights/publications/2022/11/africa-energy-futures/africa-energy-futures-botswana

⁹² https://www.irena.org/publications/2021/Aug/Renewables-Readiness-Assessment-Botswana

⁹³ https://www.worldbank.org/en/news/feature/2014/08/11/renewable-energy-the-case-of-botswana

⁹⁴ https://w3.windfair.net/wind-energy/news/40267-zambia-chariot-transitional-power-energy-transition-africa-total-eren-france-first-quantam-minerals-mine-powered-renewable-energy-mw-wind-solar-carbon-footprint-esmissions

⁹⁵ https://www.un.org/sites/un2.un.org/files/2021/09/zambia_final_compact_template_2308.pdf

⁹⁶https://www.greenclimate.fund/project/fp080

⁹⁸ https://www.trade.gov/country-commercial-guides/italy-natural-gas-renewable-energy#:~:text=In%20the%20National%20Resilience%20and,%25%E2%80%93100%25%20by%202050.

				from renewables by 2030 ⁹⁷		BLI studies initiated on risks posed by wind turbines and power lines to soaring and migratory birds.
Poland	Yes	BLI – Renewable Energy mapping EU project	wind 2030 and 11GW by 2040 ⁹⁹	renewable energy to make up no less than	Capacity could be 44GW of wind by 2030 – will likely be hindered in practice by legal amendments 101	Falls along the Mediterranean/Black Sea flyway so expansion of wind energy could impact birds. Further, BLI studies identified risks posed by wind turbines and power lines to soaring and migratory birds.

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⁹⁷ https://www.enerdata.net/publications/daily-energy-news/ple nitude-and-simply-blue-will-develop-24-gw-offshore-wind-italy.html#:~:text=Plenitude%20plans%20to%20reach%2015,power%20generation%20with%2021%20TWh).

⁹⁹ https://www.politico.eu/sponsored-content/the-green-turn-of-the-polish-energy-sector/

¹⁰⁰ https://www.gov.pl/web/climate/energy-policy-of-poland-until-2040-epp2040

¹⁰¹ https://www.politico.eu/article/poland-bill-wind-power-renewables-legal-roadblock-coal/#:~:text=The%20original%20bill%20would%20have,by%20climate%20think%20tank%20Ember.

Table 2: Assessment of international financial institutions considered potential target under the strategy.

Financial Institution	Evidence proactively engaging with migratory species and/or renewable energy developments	Comment on relevant activities, i.e., progress made regarding geographic expansion and projects (potentially) of interest to CMS ETF	Ways to engage or involve in CMS ETF	Schedule/Date	Priority
			Asia		
Asian Development Bank	Yes Has collaborated with BLI on AVISTEP/provided funding for BLI work on AVISTEP Has developments in priority countries for CMS ETF expansion i.e., India	 Invited to join the CMS ETF. Example projects include the Monsoon Wind Power Project in Laos 102 and the Kutch Wind Project in India 103. ADB has also approved a development program entailing \$23million of project investments to support the Cambodian energy transition 104. 	 Send invitation to join the CMS ETF Invite to webinars discussing work of CMS ETF Invite to workshops about implementation of CMS ETF Invite to public meetings with the CMS ETF coordinator and (as appropriate) CMS ETF state representatives/me mbers to discuss work of CMS ETF 	 Q1 2024 Arrange other activities as appropriate/when opportunities arise 	Actively invests in renewable energy developments in CMS parties and representatives
Asian Infrastructure	Yes Committed 40million USD to the first fund	Have a project to provide long-term financing to invest in	Send invitation to join the CMS ETF	• Q1 2024	HIGH

¹⁰² https://www.adb.org/projects/55205-001/main

¹⁰³ https://www.adb.org/projects/51210-001/main

¹⁰⁴ https://www.adb.org/news/adb-supporting-cambodia-energy-transition-program

Investment Bank	close of the 'Alcazar Energy Partners', which funds investment in renewable energy in the Middle East, North Africa, Türkiye and Central Asia (the latter being a priority region for geographic expansion, the former having several members in the CMS ETF e.g., Jordan and Egypt) Has an MoU with IRENA, who are an existing member of the CMS ETF, and thus have preexisting collaborative relations with CMS ETF members	renewable energy projects including wind and solar in Türkiye, which is not a CMS party thus outside of the current reach of the CMS ETF.	 Invite to webinars discussing work of CMS ETF Invite to workshops about implementation of CMS ETF Invite to public meetings with the CMS ETF coordinator and (as appropriate) CMS ETF state representatives/me mbers to discuss work of CMS ETF 	Arrange other activities as appropriate/when opportunities arise	Actively invests in renewable energy developments in CMS parties and representatives
			Europe		
KfW/ German Development Bank	Yes • Has collaborated with BLI on AVISTEP/provided funding for BLI work on AVISTEP • Has developments in priority countries for	Provided financing to the 'Africa Go Green' initiative aiming to promote renewable energy development in Africa 105 and is funding the expansion of AVISTEP into four	 Send invitation to join the CMS ETF Invite to webinars discussing work of CMS ETF Invite to workshops about 	 Q1 2024 Arrange other activities as appropriate/when opportunities arise 	Actively invests in renewable energy developments in CMS parties and representatives

 $^{^{105}\,}https://www.kfw-entwicklungsbank.de/ipfz/Projekt datenbank/Africa GoGreen-Fund-for-Renewable-Energy-and-Energy-Efficiency-44738.htm$

	CMS ETF expansion i.e., Uzbekistan and CMS ETF member countries i.e., Kenya	more countries during 2024.	implementation of CMS ETF Invite to public meetings with the CMS ETF coordinator and (as appropriate) CMS ETF state representatives/me mbers to discuss work of CMS ETF
FMO's 'Nederlandse Financierings- Maatschappij voor Ontwikkelingsla nden N.V.' Also known as the Netherlands Development Finance Company.	 Invested in Africa Renewable Energy Fund II – Access to Energy Fund and Building Prospects Fund – including biodiversity and ecosystem services Energy and Responsible investments as funding expertise 	 Invited to join the CMS ETF and currently paused due to internal restructuring but maintaining interest. Invests in Africa, the Americas, and Europe. 	 Send invitation to join the CMS ETF Invite to webinars discussing work of CMS ETF Invite to workshops about implementation of CMS ETF Invite to public meetings with the CMS ETF coordinator and (as appropriate) CMS ETF state representatives/me mbers to discuss work of CMS ETF

European Investment Bank (EIB)	EIB is the first financial institution to end financing for fossil fuel projects and focus support on projects fully aligned with the Paris Agreement	 Invited to join the CMS ETF. Projects invested in include solar energy projects in CMS COP14 host and priority state for geographic expansion - Uzbekistan 106 	 Send invitation to join the CMS ETF Invite to webinars discussing work of CMS ETF Invite to workshops about implementation of CMS ETF Invite to public meetings with the CMS ETF coordinator and (as appropriate) CMS ETF state representatives/me mbers to discuss work of CMS ETF
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¹⁰⁶ https://www.eib.org/en/projects/all/20210033

Latin America					
Brazilian Development Bank (BNDES)	Yes Has renewable energy developments in an CMS ETF represented state (Brazil) Brazil is in a priority region for the CMS ETF to expand its involvement	BNDES approved financing in 2021 for two wind farms in Rio Grande do Norte with a combined capacity of 121.8MW 107.		 Q1 2024 Arrange other activities as appropriate/when opportunities arise 	MEDIUM
Development Bank of Latin America	Yes • Have signed an MoU to collaborate with the Asian Infrastructure Investment Bank to collaborate in financing renewable energy projects in Latin America – which is a priority geographic region for	Are looking to develop more projects going forward in Latin America in partnership with the Asian Infrastructure Investment Bank.	 Send invitation to join the CMS ETF Invite to webinars discussing work of CMS ETF Invite to workshops about implementation of CMS ETF Invite to public meetings with the CMS ETF 	 Q1 2024 Arrange other activities as appropriate/when opportunities arise 	HIGH Actively invests in renewable energy developments in CMS parties and representatives.

ansion for the S ETF	coordinator and (as appropriate) CMS ETF state representatives/me	
	mbers to discuss work of CMS ETF	

Table 3: The table below provides an example of how stakeholders (observer NGOs or CMS parties) from three states (India, Uzbekistan and Afghanistan) could be engaged with over the course of 2024.

Stakeholder category	Stakeholder name	Methods of achieving stakeholder involvement	Schedule/date
CMS party – potential CMS ETF member	State Committee of the Republic of Uzbekistan for Ecology and Environmental Protection	 Invite to join the CMS ETF Send invitation to join the CMS ETF Invite to webinars discussing work of CMS ETF Invite to workshops about implementation of CMS ETF Invite to public meetings with the CMS ETF coordinator and (as appropriate) CMS ETF state representatives/members to discuss work of CMS ETF 	 Q1 2024 Arrange other activities as appropriate/when opportunities arise
NGO	Uzbekistan Society for the Protection of Birds	 Send invitation to become an observer of the CMS ETF Invite to webinars discussing work of CMS ETF Invite to workshops about implementation of CMS ETF Invite to public meetings with the CMS ETF coordinator and (as appropriate) CMS ETF state representatives/members to discuss work of CMS ETF 	 Q1 2024 Arrange other activities as appropriate/when opportunities arise

CMS party – potential CMS ETF member	Ministry of Environment, Forest and Climate Change of India	 Preliminary private discussions to discuss openness to join the CMS ETF at the 'Meeting of the Range States of the Central Asian Flyway' Send invitation to join the CMS ETF Invite to webinars discussing work of CMS ETF Invite to workshops about implementation of CMS ETF Invite to public meetings with the CMS ETF coordinator and CMS ETF representative focal points to discuss work of CMS ETF
NGO in priority expansion state – potential observer partner	Bombay Natural History Society	 Send invitation to become an observer of the CMS ETF Invite to webinars discussing work of CMS ETF Invite to workshops about implementation of CMS ETF Invite to public meetings with the CMS ETF coordinator and (as appropriate) CMS ETF state representatives/members to discuss work of CMS ETF
CMS party – potential CMS ETF member	Ministry of the Environment and Sustainable Development of Argentina	 Invite to join the CMS ETF Send invitation to join the CMS ETF Invite to webinars discussing work of CMS ETF Invite to workshops about implementation of CMS ETF Invite to public meetings with the CMS ETF coordinator and (as appropriate) CMS ETF state representatives/members to discuss work of CMS ETF

NGO in priority expansion state – potential observer partner	Aves Argentina	 Send invitation to become an observer of the CMS ETF Invite to webinars discussing work of CMS ETF Invite to workshops about implementation of CMS ETF Invite to public meetings with the CMS ETF coordinator and (as appropriate) CMS ETF state representatives/members to discuss work of CMS ETF 	 Prior to invitation to Argentine gov representative Arrange other activities as appropriate
NGO – potential observer partner	Bat Conservation International	 Send invitation to become an observer of the CMS ETF Invite to webinars discussing work of CMS ETF Invite to workshops about implementation of CMS ETF Invite to public meetings with the CMS ETF coordinator and (as appropriate) CMS ETF state representatives/members to discuss work of CMS ETF 	 Q1 2024 Arrange other activities as appropriate