

**Annex 4: List of indicators in the ENR sector and their sources**

SN	Indicator	SDG	AU 2063	EAC 2050	NST 2	SSP	Type of Sources	Data source	Frequency	Responsible Institution
1	Proportion of total adult population with secure tenure rights to land, with legally recognized documentation and who perceive their rights to land as secure, by sex and by type of tenure	1	0	0	0	0	Administrative	Land Administration Information System (LAIS)	Annual	RNRA
2	Proportion of bodies of water with good ambient water quality	1	0	0	0	0	Administrative	Water Quality Monitoring in Rwanda I, II & III	Annual	RWB
3	Change in water-use efficiency over time	1	0	0	0	0	Administrative	MININFRA Records	Annual	MININFRA
4	Level of water stress: freshwater withdrawal as a proportion of available freshwater resources	1	0	0	0	0	Administrative	MININFRA Records	Annual	MININFRA
5	Degree of integrated water resources management implementation (0-100)	1	0	0	0	0	Administrative	Records of MINIREMA: Consistency analysis for IWRM; pilot survey	Annual	RWB
6	Proportion of transboundary basin area with an operational arrangement for water cooperation	1	0	0	0	0	Administrative	Nile Basin Initiative; Congo Basin	Annual	MoE
7	Change in the extent of water-related ecosystems over time	1	0	0	0	0	Administrative	Rwanda State of the environment Report	Annual	RWFA
8	CO2 emission per unit of value added	1	0	0	1	0	Administrative	(TNC) report on Climate Change	Annual	MoE
9	Ratio of land consumption rate to population growth rate.	1	0	0	0	0	Administrative	Admin	Annual	RNRA
10	Annual mean levels of fine particulate matter in cities	1	0	0	0	0	Administrative	MoE Reports	Annual	MoE
11	Number of parties to international multilateral environmental agreements on hazardous waste, and other chemicals that meet their commitments and obligations in transmitting information as required by each relevant agreement	1	0	0	0	0	Administrative	MoE Reports	Annual	MoE
12	Progress by countries in the degree of implementation of international instruments aiming to combat illegal, unreported and unregulated fishing	1	0	0	0	0	Administrative	MINAGRI	Annual	MINAGRI
13	Progress by countries in the degree of application of a legal/regulatory/policy/institutional framework which recognizes and protects access rights for small-scale fisheries	1	0	0	0	0	Administrative	MINAGRI/RAB Records	Annual	MINAGRI, RAB
14	Forest coverage of total surface areas	1	0	0	1	1	Administrative	Records of MINRENA, Rwanda State of Environment and outlook Report	Annual	MoE
15	Proportion of important sites for terrestrial and freshwater biodiversity that are covered by protected areas, by ecosystem type	1	0	0	0	0	Administrative	National Biodiversity Strategies and Action Plans (NBSAPs)	Annual	MoE
16	Progress towards sustainable forest management	1	0	0	0	0	Administrative	District forest management plan; Forest management strata	Annual	RWFA
17	Proportion of land that is degraded over total land area	1	0	0	0	0	Administrative	RNRA Reports	Annual	RNRA
18	Coverage by protected areas of important sites for mountain biodiversity	1	0	0	0	0	Administrative	RNRA Reports	Annual	RNRA
19	Proportion of waste recycled	0	1	0	0	0	Administrative	Adm/Specific survey	Annual	REMA
20	% Of agricultural land placed under sustainable land management practice	0	1	0	0	0	Administrative	Admin	Annually	REMA
21	a) % of terrestrial and inland water areas preserved; b) % of coastal and marine areas preserved	0	1	0	0	0	Administrative	Admin	Annually	RLMU
22	Proportion of national parks and protected areas managed on the basis of master and national plan	0	1	0	0	0	Administrative	Admin	Annually	RDB
23	% Of water demand satisfaction	0	1	0	0	0	Administrative	Admin	Annually	RWB
24	% in water productivity used in rain-fed agriculture and irrigation	0	1	0	0	0	Administrative	Admin	Annually	RWB
25	% Of rainwater harvested for productive use	0	1	0	0	0	Administrative	Admin	Annually	RWB
26	% Of farmers, pastoralist and fisher folks practicing climate resilient production systems	0	1	0	0	0	Administrative	Admin	Annually	REMA

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27	Levels of emissions arising from agriculture bio-diversity loss, land use and deforestation	0	1	0	0	0	Administrative	Admin	Annually	RAB
28	Number of Cities meeting the WHO's Ambient Air Quality Standards (AAQS)	0	1	0	0	0	Administrative	Admin	Annually	REMA
29	The level of satisfaction of local authorities on the share of the exploitation of natural resources for the benefit of all.	0	1	0	0	0	Administrative	Admin	Annually	RGB
	The proportion of revenue generated from exploitation of natural resources retained in the local communities.	0	1	0	0	0	Administrative	Admin	Annually	RGB
30	Value of mineral exports per annum	0	0	0	1	0	Administrative	RMB Reports	Annually	RMPGB
31	% Of public forest plantation allocated to private operators	0	0	0	1	0	Administrative	RWFA reports	Annually	RWFA
32	Number of ha of land under agro forestry	0	0	0	0	1	Administrative	RWFA report /Ground survey	Annually	RWFA
33	% of public forest plantations allocated to private women and men operators	0	0	0	0	1	Administrative	RWFA report/Contracts/ MoU	Annually	RWFA
34	Number of ha of small natural forests under participatory management	0	0	0	0	1	Administrative	RWFA reports /MoUs	Annually	RWFA
35	% Of improved seeds provided to women and men farmers	0	0	0	0	1	Administrative	RWFA reports	Annually	RWFA
36	% Of charcoal produced by certified "green charcoal" of women and men's companies and cooperatives	0	0	0	0	1	Administrative	MINILAF and RWFA reports	Annually	MoE
37	Number of Ha of degraded forests rehabilitated	0	0	0	0	1	Administrative	RWFA reports	Annually	RWFA
38	Renewable water resources availability per capita per annum (m3/capita/annum	0	0	0	0	1	Administrative	WRM reports	Annually	RWB
39	% Of catchments with management committees Task Forces of women and men	0	0	0	0	1	Administrative	WRM reports	Annually	WRM
40	Number of shared basins/catchments with cooperation frameworks	0	0	0	0	1	Administrative	WRM reports	Annually	WRM
41	Percentage of implementation of approved catchment management plans	0	0	0	0	1	Administrative	WRM reports	Annually	WRM
42	Percentage of degraded areas in 4 priority catchments rehabilitated	0	0	0	0	1	Administrative	Reports from WRMD/REMA/ MINAGRI/ FONERWA and Districts	Annually	REMA, MINAGRI, FONERWA
43	Percentage of water bodies with ambient water quality	0	0	0	0	1	Administrative	WRM/ REMA/ WASAC reports	Annually	RWB
44	Percentage of Floods control investment measures implemented	0	0	0	0	1	Administrative	WRM reports	Annually	RWB
45	% Of women and men water users with water permits	0	0	0	0	1	Administrative	WRM reports	Annually	RWB
46	Artificial water storage per capita	0	0	0	0	1	Administrative	WRM reports	Annually	RWB
48	Number of Sector and district land plans (Cumulatively) integrated into a paperless Land register	0	0	0	0	1	Administrative	LAIS	Annually	RNRA
49	% Of Land use plan harmonized with NLUDMP	0	0	0	0	1	Administrative	DLUP, LUDP, CoK harmonized	Annually	DLUP
50	Number of administrative entities with annual reference prices and market value integrated	0	0	0	0	1	Administrative	LAIS	Annually	RNRA
51	% Of compliance of land use development plans to the NLUDMP	0	0	0	0	1	Administrative	Assessment report on district land use master plan	Annually	RNRA
52	% Of agriculture and premium land protected	0	0	0	0	1	Administrative	Assessment report on district land use master plan	Annually	RNRA, Districts
53	% Of increased coverage in surveying and mapping	0	0	0	0	1	Administrative	CORS Rwanda geo net platform	Annually	CORS Rwanda
54	% Of National Spatial Data Infrastructure established and operational	0	0	0	0	1	Administrative	NSDI platform in place	Annually	NSDI

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SN	Indicator	SDG	AU 2063	EAC 2050	NST 2	SSP	Type of Sources	Data source	Frequency	Responsible Institution
55	Number of weather and climate products and services produced and disseminated by type of channel	0	0	0	0	1	Administrative	QMS Audit report	Annually	QMS
56	% Of occurred extreme weather events for which advance warning was provided at least 30 min in advance	0	0	0	0	1	Administrative	Feedback for various platforms and internal forecast verification	Annually	METEO RWANDA, RNRA
57	% Of polled women and men users of weather & climate information from Mateo Rwanda who are satisfied or very satisfied with the service	0	0	0	0	1	Administrative		Annual sector Satisfaction report	METEO RWANDA, RNRA
58	% Of demand of Mateo Rwanda weather data by channels	0	0	0	0	1	Administrative	Climate Data requests served	Annually	METEO RWANDA, RNRA
59	% Of forecasts by level of accuracy	0	0	0	0	1	Administrative	Forecast verification report	Annually	METEO RWANDA, RNRA
60	Number of sectors with approved SEA monitored	0	0	0	0	1	Administrative	Annual monitoring reports	Annually	MoE
61	% Of approved EIA and EA certified projects in compliance (75% or above) with EIAs, EAs Studies and Conditions of approval	0	0	0	0	1	Administrative	REMA reports	Annually	REMA
62	% Of hazardous/toxic waste safely managed	0	0	0	0	1	Administrative	REMA reports	Annually	REMA
63	Number of circular economy initiatives supported	0	0	0	0	1	Administrative	REMA, FONERWA, MoE Reports	Annually	REMA
64	% Of air quality monitoring stations with Good, Moderate, Unhealthy Air Quality Index	0	0	0	0	1	Administrative	Station readings; REMA reports	Annually	REMA
65	Number of degraded wetlands ecosystems rehabilitated (fully protected wetlands and complex wetlands)	0	0	0	0	1	Administrative	REMA and RWFA reports	Annually	REMA
66	% Of Nationally Determined Contributions (NDC) programmatic targets achieved	0	0	0	0	1	Administrative	NDC monitoring report	Annually	NDC
67	Volume of Finance Mobilized (in USD Millions)	0	0	0	0	1	Administrative	Financing agreements	Annually	MoE
68	Increased knowledge of the available minerals, petroleum and gas in the country	0	0	0	0	1	Administrative	RMPGB reports	Annually	RMPGB
69	Value of Annual contributions of mining sector to export revenues in USD (\$).	0	0	0	0	1	Administrative	RMPGB Reports	Annually	RMPGB
70	Level of grade for exported Minerals.	0	0	0	0	1	Administrative	RMPGB Reports and grade reports of exported minerals	Annually	RMPGB
71	Number of mines complying with environmental and modernized practices	0	0	0	0	1	Administrative	RMPGB and REMA Reports	Annually	RMPGB