

RAPID INTEGRATED ASSESSMENT – BHUTAN SDG PROFILE CARD (updated on 27 October 2015)

REGION	ASIA & PACIFIC
HDI/Rank	136 (2014)
Inequality adjusted HDI	0.465
Nationally established MPI	
Income Level	Lower middle income
GDP Per capita	US\$ 2,069.8 (2014)
Population size	765,000 (2014)

SDGs Goals/Targets		Thematic Area/Sector, as Identified in Key Government Planning Documents	National Development Plan Identify closest Goal/Target presented in Document addressing the issues in the corresponding SDG Goal/Target	Identify National Indicators for the Specific Targets	Institution Responsible for Target implementation (line ministries)	Any relevant comment related to this priority target area in the National Development Plan?
People	Goal 1. End poverty in all its forms everywhere					
	1.1 By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day	Emerging Social Challenges	<p>Basic amenities developed¹</p> <p>Increased Income²</p> <p>Skills developed³</p> <p>Enhance food and nutrition security⁴</p>	<p>✓ HHs with CGI Sheets for roofing (%)</p> <p>✓ HHs with access to piped drinking water (%)</p> <p>✓ HHs with access to sanitation (%)</p> <p>✓ HHs with access to Electricity (%)</p> <p>✓ HHs income greater than Nu. 46000 per year (%)</p> <p>✓ HHs with income generating skills (%)</p> <p>✓ Egg production (million Nos/annum)</p> <p>✓ Milk production (mt/annum)</p> <p>✓ Vegetable production (mt/annum)</p>	Gross National Happiness Commission	

1.2 By 2030, reduce at least by half the proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions	Renewable Natural Resources	Generate additional employment opportunities and increase mean annual rural household cash income ⁵	<ul style="list-style-type: none"> ✓ Annual cash income from sale of RNR products (Nu. in millions/ annum) ✓ Percent contribution of agriculture income to total HH income (%) 	Ministry of Agriculture and Forests	
	Education	Preventative, Promotive and Rehabilitative Healthcare services ⁶	<ul style="list-style-type: none"> ✓ Stunting (Height for age) 	Ministry of Education	
		MDGs+ Achieved ⁷	<ul style="list-style-type: none"> ✓ Adjusted Primary Net Enrollment Ratio ✓ Basic Net Enrolment Ratio(13-16yrs) ✓ Net Primary enrolment (6-12 yrs) 		
		Health and wellbeing of school children improved ⁸	<ul style="list-style-type: none"> ✓ Attendance rate ✓ Clean toilet initiatives in all schools ✓ Schools/Institutes with sporting calendar/sporting event 		
		Students performance outcome improved ⁹	<ul style="list-style-type: none"> ✓ Completion Rates (Secondary) ✓ Completion Rates (Primary) ✓ Learning outcome scores ✓ Survival Rates (to class VI) ✓ Survival Rates (to class X) 		
		MDGs+ Achieved ¹⁰	<ul style="list-style-type: none"> ✓ GER at tertiary level (19-21yrs) both within and outside Bhutan ✓ Ratio of females to males in tertiary education¹⁶ ✓ Adult literacy rate 15 yrs+¹⁷ 		
	Health	Teacher performance outcome improved ¹¹	<ul style="list-style-type: none"> ✓ % of teacher satisfied with teaching profession 	Ministry of Health	
		Curative and Rehabilitative Healthcare Services Provided ¹²	<ul style="list-style-type: none"> ✓ % of population within 3 hrs walking distance 		

			Preventative, Promotive and Rehabilitative Healthcare services ¹³	<ul style="list-style-type: none"> ✓ Average Nationwide OPD waiting time from 9 AM to 11 AM ✓ Independent Patient satisfaction rate ✓ Nurse to bed ratio ✓ Nurse to Doctor Ratio ✓ IMR per 1000 live births ✓ Malaria incidence per 10,000 population ✓ Percentage of rural pop with access to improved sanitation ✓ U5 MR per 1000 live birth ✓ TB Prevalence rate per 100,000 population ✓ Diabetes incidence per 10,000 population ✓ Hypertension incidence 10,000 population ✓ MMR per 100,000 live births ✓ Stunting (Height for age) 		
		Employment and Human Resource Development	Quality and Relevance of TVET improved ¹⁴	<ul style="list-style-type: none"> ✓ Competency based TVET curricula developed based on NOSS ✓ performance of the instructors ✓ Ratio to local worker to foreign worker ✓ TVET graduates employed in four months 	Ministry of Labour and Human Resources	
		Preservation and Promotion of Culture	Contribution to employment enhanced ¹⁵	<ul style="list-style-type: none"> ✓ No of jobs created by Cultural industries 	Ministry of Home and Cultural Affairs	

1.3 Implement nationally appropriate social protection systems and measures for all, including floors, and by 2030 achieve substantial coverage of the poor and the vulnerable	Emerging Social Challenges	Landless/ economically disadvantaged resettled and poverty reduced ¹⁸ Child's Right to Protection Enhanced ¹⁹	<ul style="list-style-type: none"> ✓ Area of land allocated for resettlement (acres) ✓ % of hhs with the required child care and house help services ✓ No of day-care centres/crèches ✓ No. of institutional mechanisms and support services in place 	National Land Commission National Commission for Women and Children	
1.4 By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance	Emerging Social Challenges Tourism Construction Human Settlement and Housing	Basic amenities developed ²⁰ Employment increased ²¹ Employment opportunities created ²² Poverty reduced ²³ Strategic Human Settlements developed for regionally balanced development and improved quality of life and socioeconomic status of both urban and rural residents ²⁴	<ul style="list-style-type: none"> ✓ HHs with CGI Sheets for roofing (%) ✓ HHs with access to piped drinking water (%) ✓ HHs with access to sanitation (%) ✓ HHs with access to Electricity (%) ✓ No. of Bhutanese employed ✓ No. Bhutanese employed in construction industry (CDB) ✓ Access to affordable housing enhanced ✓ Develop aesthetic, culturally and socially ambient houses/ housing complexes ✓ Regional hubs developed (Nos.) ✓ Population residing region wise (western Region) (%) ✓ Population residing region wise (Central Region) (%) ✓ Population residing region 	Gross National Happiness Commission Ministry of Economic Affairs Ministry of Works and Human Settlement Ministry of Works and Human Settlement	

		Trade, Industries and Mines	Geological mapping, mineral exploration and mineral development in sustainable and environment friendly manner carried out ²⁵	<p>wise (Central-eastern Region) (%)</p> <p>✓ Population residing region wise (Eastern Region) (%)</p> <p>✓ Contribution to community development by mining sector (Million Nu.)</p>	Ministry of Economic Affairs	
People	1.5 By 2030, build the resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters	Renewable Natural Resources	Enhanced capacity of the local communities to adapt to changing climate ²⁶	<p>✓ Resilient local crop varieties promoted in selected sites (Nos)</p> <p>✓ Functional community seed banks(Nos)</p> <p>✓ Farmers trained on local genetic resources(Nos)</p>	Ministry of Agriculture and Forests	
	Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture					
People	2.1 By 2030, end hunger and ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious and sufficient food all year round	Renewable Natural Resources	Enhanced self-sufficiency of livestock products ²⁷ ;	<p>✓ Milk Production(mt/year)</p> <p>✓ Egg production (Nos. in million/ year)</p> <p>✓ Chicken production(mt/year)</p> <p>✓ Pork production(mt/year)</p> <p>✓ Fish production (mt/year)</p> <p>✓ Chevon production (mt/year)</p> <p>✓ Beef production(mt/year)</p> <p>✓ Honey production(mt/year)</p>	Ministry of Agriculture and Forests	
		Education	Nutritional standards and sustainability of school feeding programme enhanced ²⁸ ;	<p>✓ Transition strategy for school feeding programme implemented</p>	Ministry of Education	

		Health	Nutritional status of general population improved ²⁹	<ul style="list-style-type: none"> ✓ % of schools (boarding and with day meal program) providing school meals as per the standard menu for balanced diet ✓ % of schools augmenting vegetables and livestock requirement met from SAP ✓ % of schools buying local farm products for school mess ✓ Weight for height ✓ Weight for age ✓ Exclusive breastfeeding for 6 months (%) ✓ Prevalence of anemia among 6-36 months children (%) ✓ Low birth weight infant (%) 	Ministry of Health	
People	2.2 By 2030, end all forms of malnutrition, including achieving, by 2025, the internationally agreed targets on stunting and wasting in children under 5 years of age, and address the nutritional needs of adolescent girls, pregnant and lactating women and older persons	Education	Nutritional standards and sustainability of school feeding programme enhanced ³⁰ ;	<ul style="list-style-type: none"> ✓ Transition strategy for school feeding programme implemented ✓ % of schools (boarding and with day meal program) providing school meals as per the standard menu for balanced diet ✓ % of schools augmenting vegetables and livestock requirement met from SAP ✓ % of schools buying local farm products for school mess 	Ministry of Education	
		Health	Nutritional status of general population improved ³¹	<ul style="list-style-type: none"> ✓ Weight for height ✓ Weight for age ✓ Exclusive breastfeeding for 6 months (%) ✓ Prevalence of anemia among 6-36 months children (%) ✓ Low birth weight infant (%) 	Ministry of Health	

	plant banks at the national, regional and international levels, and ensure access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed			<ul style="list-style-type: none"> ✓ Functional invitro and cryo bank facilities for plant genetic resources(Nos) ✓ Doses of animal germ-plasm (semen)at the animal gene bank (Nos) ✓ Animal germ-plasm (embryos)of domestic animal breeds in animal gene bank(Nos) ✓ Animal germ-plasm(DNA)of domestic animal breeds (Nos) ✓ Nucleus farms of selected local breeds(Nos) ✓ Living collection diversity in ex situ conservation at the botanical garden(Nos) ✓ Species of animal genetic resources characterized (Nos) 		
People	Goal 3. Ensure healthy lives and promote well-being for all at all ages					
	3.1 By 2030, reduce the global maternal mortality ratio to less than 70 per 100,000 live births	Health	Morbidity and Mortality due to Non-communicable diseases controlled ³⁸	✓ Maternal Mortality Rate per 100,000 live birth	Ministry of Health	
	3.2 By 2030, end preventable deaths of newborns and children under 5 years of age, with all countries aiming to reduce neonatal mortality to at least as low as 12 per 1,000 live births and under-5 mortality to at least as low as 25 per 1,000 live births	Health	Morbidity & mortality due to communicable diseases reduced ³⁹	<ul style="list-style-type: none"> ✓ Under 5 Mortality Rate ✓ Infant Mortality rate per 1000 live birth ✓ Immunization coverage (%) 	Ministry of Health	
	3.3 By 2030, end the epidemics of AIDS, tuberculosis, malaria and neglected tropical diseases	Health	Morbidity & mortality due to communicable diseases reduced ⁴⁰	<ul style="list-style-type: none"> ✓ HIV Prevalence (%) ✓ Malaria incidence per 10000 population at risk ✓ Tuberculosis prevalence 	Ministry of Health	

	and combat hepatitis, water-borne diseases and other communicable diseases			rate Per 10000 population		
People	3.4 By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being	Health	Morbidity and Mortality due to Non-communicable diseases controlled ⁴¹	<ul style="list-style-type: none"> ✓ Incidence of Diabetes per 10,000 population ✓ Elimination of Iodine Deficiency Disorder ✓ Hypertension Incidence per 10,000 population 	Ministry of Health	
		Sports	Health Education and Advocacy strengthened ⁴²	<ul style="list-style-type: none"> ✓ % of students with student health hand book (class PP-VII) ✓ % of schools with trained school health coordinators ✓ % of school implementing Life Skill Education (LSE) 	Ministry of Health	
	3.5 Strengthen the prevention and treatment of substance abuse, including narcotic drug abuse and harmful use of alcohol	Health	Increased access to improved adolescent health services ⁴³ ; Healthy lifestyle achieved through health promotion ⁴⁴	<ul style="list-style-type: none"> ✓ Reduce prevalence of alcohol use among adolescents and youth (10-24 yrs) (%) ✓ % reduction in the number of alcohol users among youth and adult 	Ministry of Health	
	3.6 By 2020, halve the number of global deaths and injuries from road traffic accidents	Health	Reduced disability and injuries ⁴⁵	<ul style="list-style-type: none"> ✓ Reduce deaths and injuries due to road traffic crashes per 100,000 population (%) 	Ministry of Health	
		Transport	Eco-friendly, safe, reliable and affordable surface/ air transport increased. ⁴⁶ Road Safety enhanced ⁴⁷	<ul style="list-style-type: none"> ✓ Reduction of annual of road fatalities per 10,000 vehicles ✓ Reduction in number of road crashes ✓ Annual reduction in road crashes (%) 	Ministry of Information and Communication	
	3.7 By 2030, ensure universal access to sexual and reproductive health-care services, including for	Health	Reproductive and child health services improved ⁴⁸	<ul style="list-style-type: none"> ✓ ANC coverage (at least 4 visits) (%) ✓ Contraceptive prevalence rate (%) 	Ministry of Health	

	family planning, information and education, and the integration of reproductive health into national strategies and programmes			<ul style="list-style-type: none"> ✓ % of mother attending 1st PNC visit (within 1 week) ✓ % Women aged 20–60 screened by pap smear for at least once for detecting cervical cancer 		
	3.8 Achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all	Health	Availability of adequate, reliable and cost effective medical supplies and functionality ensured ⁴⁹ ; Functionality of medical equipment ensured	<ul style="list-style-type: none"> ✓ Proportion of health facilities with 95% of essential medicines available at any point of time (%) ✓ Proportion of equipment uptime at all point of time (%) ✓ Proportion of equipment functional in all centers at all times (%) 	Ministry of Health	
	3.9 By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination	Industry	Reduction in industrial pollution ⁵⁰	<ul style="list-style-type: none"> ✓ Pollutant/discharge level within national level (Nos) 	Ministry of Economic Affairs	
People	Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all					
	4.1 By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes	Education	Enrollment in ECCD and school education enhanced ⁵¹ ; Relevance and quality of education improved ⁵²	<ul style="list-style-type: none"> ✓ Adjusted Primary Net Enrolment Ratio (%) m/f ✓ Net Primary Enrolment ratio (%)m/f ✓ Basic Net Enrolment Ratio (13- 16yrs old) -m/f ✓ No. of children with special needs enrolled in schools ✓ Survival rates in % (to class VI) (m- 96.2 & f- 99.2) ✓ Survival rates in % (to class X) (m-83.8 & f - 85.4) ✓ Completion rates in % (primary) ✓ Completion rates in % 	Ministry of Education	

		Preservation and Promotion of Culture	Quality of spiritual education enhanced ⁵³	(secondary) ✓ Learning outcome scores (average/% taken across Math, English, Science and Dzongkha) for class III ✓ Learning outcome scores (average taken across Math, English, Science and Dzongkha) for class VI ✓ Learning outcome scores (average/% taken across Math, English, Science and Dzongkha) for class X ✓ % of students scoring above 60% in Dzongkha ✓ % of schools achieving at least 60% in Academic learning scorecard(ALS) ✓ % of schools achieving at least 70% in Enabling Practices Scorecard(EPS) ✓ % of completion rates for primary and secondary level religious education	Ministry of Education	
4.2 By 2030, ensure that all girls and boys have access to quality early childhood development, care and pre-primary education so that they are ready for primary education	Education		Enrollment in ECCD and school education enhanced ⁵⁴ ; Increased access to Special Education and ECCD ⁵⁵	✓ ECCD Enrolment rate (%) m/f ✓ No. of ECCD centers in place	Ministry of Education	
4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university	Education		Opportunities for higher education enhanced including lateral entry into tertiary education ⁵⁶	✓ GER at tertiary level (%) ✓ % of tertiary students studying in Bhutan (%) ✓ Ratio of females to males in tertiary education (%) ✓ Extent to which National HR gap narrowed in critical sectors (% of scholarship slots matching HR requirement.)	Ministry of Education; Ministry of Labour and Human Resources	

				✓ % of TTI graduates availing tertiary education		
4.4 By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship	Education	Youth empowered with appropriate knowledge, skills, attitudes and values ⁵⁷ ; Basic vocational skills promoted ⁵⁸ ; Quality and relevance of tertiary education (learners' experience) enhanced ⁵⁹		<ul style="list-style-type: none"> ✓ % of youth engaged in productive activities (internship programs, temporary jobs) during holidays etc. ✓ % of secondary schools with vocational clubs ✓ % of graduates employed within 6 months after graduation ✓ No. of students recruited on campus annually ✓ % of students under professional programmes undergone field attachments ✓ % of students participated in mindfulness practices ✓ % of students participated in community services ✓ % of students taking GNH/value education modules 	Ministry of Education; Ministry of Labour and Human Resources	
	Tourism	Tourism and Hospitality professionals trained at international standards ⁶⁰		<ul style="list-style-type: none"> ✓ Tour guides trained (Nos) ✓ Institutional linkages formalized (Nos) ✓ In-service employees trained through BMMHP (Nos) ✓ People attended certificate course(Nos) 	Ministry of Economic Affairs	
	Good Governance	Ensured value provider for efficient, safe and humane correctional services ⁶¹		<ul style="list-style-type: none"> ✓ No. of skills development programs (eg. Vocational) initiated 	Ministry of Education	
4.5 By 2030, eliminate gender disparities in	Education	Opportunities for higher education enhanced including lateral entry into tertiary education ⁶² ;		✓ Ratio of females to males in tertiary education (%)	Ministry of Education	

	education and ensure equal access to all levels of education and vocational training for the vulnerable, including persons with disabilities, indigenous peoples and children in vulnerable situations		Enrollment in ECCD and school education enhanced ⁶³ ; Increased access to Special Education and ECCD ⁶⁴	<ul style="list-style-type: none"> ✓ No. of children with special needs enrolled in schools ✓ No. of special education centers 		
	4.6 By 2030, ensure that all youth and a substantial proportion of adults, both men and women, achieve literacy and numeracy	Education	Adult literacy improved ⁶⁵ ;	<ul style="list-style-type: none"> ✓ Adult literacy rate 15 years + (UNESCO Definition) (66m/45.2f) ✓ Drop out rate (%) ✓ Completion rate (%) 	Ministry of Education	
People	4.7 By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development	Education	Culture and values education programme expanded and strengthened ⁶⁶ ; GNH based education promoted ⁶⁷ ; Environmental education strengthened ⁶⁸ ;	<ul style="list-style-type: none"> ✓ No. of Youth Participating in exchange programmes (regional and international) ✓ % of students who can perform at least one traditional dance/songs ✓ No. of MSS and HSS availing choeshey programme ✓ Cultural guide line for schools in place ✓ No. of GNH related activities organized ✓ % of staff covered by critical pedagogy and contemplative education workshops ✓ GNH values and holistic education modules introduced as foundation in all courses ✓ No. of development activities consistent with green practices ✓ % of school practicing green initiatives 	Ministry of Education	
		Sports	School Sports Program Standardized across the schools ⁶⁹	<ul style="list-style-type: none"> ✓ National Strategy Framework for School 	Ministry of Education	

			<p>Mass participation of children and youth in sports and physical activities enhanced⁷⁰</p> <p>Capacity building in delivery of School Sports Program supported⁷¹</p> <p>A comprehensive sports in education policy developed⁷²</p> <p>Strengthened spiritual institutions⁷³</p>	<p>Sports and Physical Activities developed (No.)</p> <ul style="list-style-type: none"> ✓ No. of technical books and guidelines developed ✓ % of students participating in sports and physical activities ✓ School have Wellness Policy and sport calendars ✓ No. of Schools Sports Instructors Recruited and trained ✓ No of invitations/offers received to participate in educational sports forums/courses ✓ Policy enacted. ✓ No. of school implementing the Policy ✓ No. of spiritual education institutions consolidated and centralized. ✓ No. of students enrolled in formal monastic institutions 	<p>Ministry of Education</p> <p>Ministry of Home and Cultural Affairs</p>	
People	Goal 5. Achieve gender equality and empower all women and girls					
	5.1 End all forms of discrimination against all women and girls everywhere	Education	Opportunities for higher education enhanced including lateral entry into tertiary education ⁷⁴ ;	<ul style="list-style-type: none"> ✓ Ratio of females to males in tertiary education (%) 	Ministry of Education	
		Construction	Efficient and effective planning and coordination system ⁷⁵	<ul style="list-style-type: none"> ✓ Trainings/workshops on gender conducted (Nos.) 	Ministry of Works and Human Settlement	
		Emerging Social	Strengthened enabling environment for women and children	<ul style="list-style-type: none"> ✓ No. of agencies (Govt., 	National Commission	

		Challenges	participation in all spheres ⁷⁶	<div>NGOs and private) with gender/child sensitive policies</div> <div>✓ No. of agencies with gender mainstreaming strategies (NPAG/ Gender Action Plan)</div> <div>✓ No of legislations promoting women's participation (gender equality law/quota legislation/ Legislation for special temporary measures</div> <div>✓ % of children with the capacity to claim their right to protection</div> <div>✓ Proportion of people who take up messages and adopt gender/child sensitive attitudes (%)</div> <div>✓ Proportion of trained personnel who integrate knowledge and skills gained and implement plans (%)</div>	for Women and Children	
		Good Governance	<div>Gender responsive budgeting instituted in annual budget⁷⁷</div> <div>Strengthened security and safety of the inmates⁷⁸</div>	<div>✓ Number of Gender budgeting in annual budget report</div> <div>✓ No. of gender friendly prison constructed</div>	<div>Ministry of Finance</div> <div>Ministry of Home and Cultural Affairs</div>	
5.2 Eliminate all forms of violence against all women and girls in the public and private spheres, including trafficking and sexual and other types of exploitation	Emerging Social Challenges	Increased safety and security for women and children ⁷⁹	<div>✓ Reduction in acceptance of domestic violence (%)</div> <div>✓ Prevalence of domestic violence against women and girls (%)</div>	National Commission for Women and Children		

				✓ Proportion and type of women and child related cases resolved (%)		
	5.3 Eliminate all harmful practices, such as child, early and forced marriage and female genital mutilation	Emerging Social Challenges	Legislation, policies, Rules and Standard of procedures reviewed, disseminated, formulated and implemented ⁸⁰ Child's Right to Protection Enhanced ⁸¹	<ul style="list-style-type: none"> ✓ No. of policies responsive to gender needs ✓ No of legislations reviewed and formulated from gender and child responsive perspective ✓ No. of implementing rules and regulations for women empowerment and child protection (for the acts) ✓ % of girls who are married before 18 years of age 	National Commission for Women and Children	
People	5.4 Recognize and value unpaid care and domestic work through the provision of public services, infrastructure and social protection policies and the promotion of shared responsibility within the household and the family as nationally appropriate					
	5.5 Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision making in political, economic and public life	Education	Opportunities for higher education enhanced including lateral entry into tertiary education ⁸² ;	✓ Ratio of females to males in tertiary education (%)	Ministry of Education	
		Construction	Participation in democratic governance deepened and strengthened ⁸³	✓ Agencies implementing gender sensitive policies/strategies (NCWC)	Ministry of Works and Human Settlement	
		Emerging Social Challenges	Increased involvement of women and children in policy making, strategy development and governance ⁸⁴	✓ % participation of women and children in policy making and strategy	National Commission for Women and Children	

		Good Governance	Participation in Electoral and Political Processes Sustained/ Improved ⁸⁵	development ✓ Number of women candidates contesting in election	Election Commission of Bhutan	
	5.6 Ensure universal access to sexual and reproductive health and reproductive rights as agreed in accordance with the Programme of Action of the International Conference on Population and Development and the Beijing Platform for Action and the outcome documents of their review conferences	Health	Reproductive and child health services improved ⁸⁶	<ul style="list-style-type: none"> ✓ ANC coverage (at least 4 visits) (%) ✓ Contraceptive prevalence rate (%) ✓ % of mother attending 1st PNC visit (within 1 week) ✓ % Women aged 20–60 screened by pap smear for at least once for detecting cervical cancer 	Ministry of Health	
	Goal 6. Ensure availability and sustainable management of water and sanitation for all					
Planet	6.1 By 2030, achieve universal and equitable access to safe and affordable drinking water for all	Education	WASH facilities strengthened ⁸⁷	✓ % of schools with functional water taps	Ministry of Education	
		Health	Improved water, sanitation and hygienic facilities ⁸⁸	✓ % of rural population with access to improved and functional drinking water supply	Ministry of Health	
			Morbidity & mortality due to communicable diseases reduced ⁸⁹	✓ Percentage of rural population with access to improved drinking water supply(coverage)		
		Construction	Access to safe and adequate water supply increased ⁹⁰	✓ Functionality of RWSS (%)	Ministry of Works and Human Settlement	
			Eco-efficient, quality and sustainable urban infrastructure facilities developed ⁹¹	✓ Water supply infrastructure constructed (Nos.)		

		Human Settlement and Housing	Improved quality of infrastructure facilities and services ⁹²	✓ % of population with access to safe, clean and reliable drinking water and sanitation	Ministry of Works and Human Settlement	
		Emerging Social Challenges	Preventative, Promotive and Rehabilitative Healthcare services ⁹³	✓ Percentage of rural pop with access to safe drinking water supply	Ministry of Works and Human Settlement	
		Sports	WASH facilities strengthened ⁹⁴	✓ % of schools with functional water taps	Ministry of Works and Human Settlement	
6.2 By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations	Education		WASH facilities strengthened ⁹⁵	✓ % of schools with functional toilet facilities	Ministry of Education	
	Health		Improved water, sanitation and hygienic facilities ⁹⁶	✓ Percentage of rural population with access to improved sanitation	Ministry of Health	
			Morbidity & mortality due to communicable diseases reduced ⁹⁷	✓ Percentage of rural population with access to improved sanitation		
	Human Settlement and Housing		Strategic and smart human settlements developed with high liveability index for balanced regional development ⁹⁸	✓ % of solid waste reduced, reused and recycled ✓ No. of waste management measures instituted	Ministry of Works and Human Settlement	
	Emerging Social Challenges		Preventative, Promotive and Rehabilitative Healthcare services ⁹⁹	✓ Percentage of rural pop with access to improved sanitation	Ministry of Works and Human Settlement	
	Sports		WASH facilities strengthened ¹⁰⁰	✓ % of schools with functional toilet facilities ✓ % of boarding schools with bathing facilities ✓ Proportion of schools promoting key health and	Ministry of Works and Human Settlement	

				hygiene behavior (%)		
6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally	Environment	Negative impact on environment from development activities minimized or avoided ¹⁰¹ Riverine ecosystem conserved and water resource management and coordination strengthened	✓ Ambient water quality ✓ Protect river system from all development activities ✓ Ambient Water Quality Standards (WQS) ✓ No. of water monitoring sampling stations ✓ National drinking water quality standards developed	National Environment Commission		
	Health	Strengthened capacity and services public health laboratory ¹⁰²	✓ Laboratory data available on water quality (%)	Ministry of Health		
	Industry	Reduction in industrial pollution ¹⁰³ ; Improved environmental compliance ¹⁰⁴	✓ Pollutant/discharge level within national level (Nos) ✓ Functional solid waste management facilities (Nos) ✓ Compliance of environmental rules and regulations by industries (Nos)	Ministry of Economic Affairs		
6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity						
6.5 By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate	Environment	Negative impact on environment from development activities minimized or avoided ¹⁰⁵ Water security and ecosystem services ensured through effective IWRM practices in selected watersheds ¹⁰⁶	✓ Integrated Water Resources Management Plan (IWRM) Developed ✓ Landscapes under Integrated Water Resource	National Environment Commission		

				✓ National drinking water quality standards developed		
Planet	Goal 12. Ensure sustainable consumption and production patterns					
	12.1 Implement the 10-year framework of programmes on sustainable consumption and production, all countries taking action, with developed countries taking the lead, taking into account the development and capabilities of developing countries	Renewable Natural Resources	<p>Promote organic production for sustainable agriculture growth and rural income¹⁰⁹;</p> <p>Increased organic agriculture production¹¹⁰;</p> <p>Increased organic livestock production¹¹¹;</p> <p>Promote sustainable management and production of organic NWFPs¹¹²;</p> <p>Increased trade of organic produce and products¹¹³</p>	<p>✓ Organic production (Livestock, Agriculture) (MT/annum)</p> <p>✓ Income from organic production(Nu. in million)</p> <p>✓ Employment from organic sector(Nos)</p> <p>✓ Area under organic cultivation (acres)</p> <p>✓ Average productivity of asparagus (kg/acres)</p> <p>✓ Average productivity buckwheat (kg/acres)</p> <p>✓ Organic honey production(MT)</p> <p>✓ Organic diary production- butter & cheese (MT)</p> <p>✓ Organic fish production(MT)</p> <p>✓ Collection of 5NWFPs under SFED compact (MT)</p> <p>✓ Area of common property resources under organic management practices (acres)</p> <p>✓ Organic regulation and certification system established and functional (Nos)</p> <p>✓ Products developed and marketed with organic brand(Nos)</p>	Ministry of Agriculture and Forests	

		Environment	Enhanced sustainable harvesting of timber and NWFP ¹¹⁴	<ul style="list-style-type: none"> ✓ Forest management units & working schemes (Nos) ✓ Forest areas managed outside FMU (Nos) ✓ Forest areas under scientific thinning plan (hac) 	Ministry of Agriculture and Forests	
			Negative impact on environment from development activities minimized or avoided ¹¹⁵	<ul style="list-style-type: none"> ✓ All activities undergo EA process as per the regulation for environmental clearance projects 2002 		
		Industry	Reduction in industrial pollution ¹¹⁶	<ul style="list-style-type: none"> ✓ Pollutant/discharge level within national level (Nos) 	Ministry of Economic Affairs	
			Improved environmental compliance ¹¹⁷	<ul style="list-style-type: none"> ✓ Compliance of environmental rules and regulations by industries (Nos) 		
		Energy	Social and Environmental integrated in HPP construction ¹¹⁸	<ul style="list-style-type: none"> ✓ Amount incurred towards environment management and development of social infrastructures (million Nu) 	Ministry of Economic Affairs	
			Natural resources utilized and managed sustainably ¹¹⁹	<ul style="list-style-type: none"> ✓ Contribution to environmental& social services (%) 		
			Alternate/ renewable energy diversified/promoted ¹²⁰	<ul style="list-style-type: none"> ✓ Wind power plant (Nos) ✓ Small hydro power plant (Nos) ✓ Biomass power project (Nos) ✓ Improved cook stoves (Nos) ✓ Biogas plant in place (Nos) ✓ Solar water heating system in place (Nos) ✓ RE Policy, rules and regulation (Nos) 		

			<p>Improved access to clean and affordable energy¹²¹</p> <p>Applied Research and Development on RE Technologies initiated¹²²</p>	<ul style="list-style-type: none">✓ Renewable Energy Development Fund management and operational frame work in place (Nos)✓ Solar power plant (Nos)✓ Energy efficiency policy and its rules& Regulation (Nos)✓ HHs electrified through solar (Nos)✓ Village entrepreneurs knowledge enhanced on O&M of Renewable Energy Technologies (Nos)✓ Research activities initiated and its reports/journal produced (Nos)✓ Appropriate standards and labels developed for import of energy consuming products and appliances (Nos)✓ Advocacy events on renewable energy and energy efficiency (Nos)		
12.2 By 2030, achieve the sustainable management and efficient use of natural resources	<p>Renewable Natural Resources</p> <p>Environment</p>	<p>Promote sustainable management and utilization of natural resources¹²³</p> <p>Promoted sustainable management and utilization of state forests¹²⁴</p>	<ul style="list-style-type: none">✓ Land area under organic/natural production (acres)✓ Forest area under sustainable management (ha)✓ Proportion of local communities and institutions participating in sustainable forest management (%)✓ Proportion of wood recovery increased by using upgraded technology	<p>Ministry of Agriculture & Forests</p> <p>National Environment Commission</p>		

				<ul style="list-style-type: none"> in forest based enterprises (%) ✓ Income from sale of forest products from CF & NWFP groups (Nu/HH/ Annum) ✓ Employment generated through NWFP based enterprises 		
		Energy	Natural resources utilized and managed sustainably ¹²⁵	<ul style="list-style-type: none"> ✓ Contribution to environmental & social services (%) 	Ministry of Economic Affairs	
		Industry	Carbon Neutral/ Green Climate resilient development ¹²⁶	<ul style="list-style-type: none"> ✓ Promote Green industries and eco-efficient Technologies 	Ministry of Economic Affairs	
			Reduction in industrial pollution ¹²⁷	<ul style="list-style-type: none"> ✓ Pollutant/discharge level within national level (Nos) 		
			Improved environmental compliance ¹²⁸	<ul style="list-style-type: none"> ✓ Functional solid waste management facilities (Nos) ✓ Compliance of environmental rules and regulations by industries (Nos) 		
		Mining	Geological mapping, mineral exploration and mineral development in sustainable and environment friendly manner carried out ¹²⁹	<ul style="list-style-type: none"> ✓ Laws amended/revised to promote scientific method, sustainable and environmental friendly mining (Nos) ✓ Mines receiving full tax credit for complying beyond environmental standards (Nos) 	Ministry of Economic Affairs	
			Enabled legal and regulatory framework for sustainable and environment friendly mineral development ¹³⁰	<ul style="list-style-type: none"> ✓ Laws/regulations amended (Nos) 		
		Tourism	Environment conservation promoted and well being of rural communities improved through eco-tourism ¹³¹	<ul style="list-style-type: none"> ✓ % of tourists on eco-tourism 	Ministry of Economic Affairs	

				✓ Rural communities benefitting from eco-tourism (project areas)		
	12.3 By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses					
	12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment	Industry	Reduction in industrial pollution ¹³² Improved environmental compliance ¹³³	✓ Pollutant/discharge level within national level (Nos) ✓ Functional solid waste management facilities (Nos) ✓ Compliance of environmental rules and regulations by industries (Nos)	Ministry of Economic Affairs	
		Health	Improved Infection Control and waste management practices in Health Facilities ¹³⁴	✓ No. of hospitals with waste treatment facility	Ministry of Health	
		Environment	Negative impact on environment from development activities minimized or avoided ¹³⁵ Waste management in GRF & PAs improved ¹³⁶	✓ Waste management strengthened ✓ Waste management plans implemented (Nos.)	National Environment Commission Ministry of Agriculture & Forests	
	12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse	Industry	Reduction in industrial pollution ¹³⁷ Improved environmental compliance ¹³⁸	✓ Pollutant/discharge level within national level (Nos) ✓ Compliance of environmental rules and regulations by industries (Nos)	Ministry of Economic Affairs	
		Information & Communication Technology & Media	E-Waste reduced ¹³⁹ E-Waste management plan operationalized ¹⁴⁰	✓ Amount of E-Waste managed ✓ No. of eWaste dealer registered	Ministry of Information & Communication	

		Education	Environmental education strengthened ¹⁴¹	✓ SOPs, manuals, guidelines, notifications, ToR drafted and implemented ✓ No. of agreements signed ✓ % of school practicing green initiatives	Ministry of Education	
		Construction	Strategic and smart human settlements developed with high livability index for balanced regional development ¹⁴²	✓ % of solid waste reduced, reused and recycled (DES) ✓ No. of waste management measures instituted (DES)	Ministry of Works and Human Settlement	
12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle	Mining	Geological mapping, mineral exploration and mineral development in sustainable and environment friendly manner carried out ¹⁴³	✓ Laws amended/revised to promote scientific method, sustainable and environmental friendly mining (Nos) ✓ Mines receiving full tax credit for complying beyond environmental standards (Nos)	Ministry of Economic Affairs		
12.7 Promote public procurement practices that are sustainable, in accordance with national policies and priorities	Good Governance	Environmental concerns integrated into procurement system ¹⁴⁴	✓ No. of clause inserted into PRR & SBDs regarding environmental concerns	Ministry of Finance		
12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature	Education	Environmental education strengthened Health Education and Advocacy strengthened ¹⁴⁵ GNH based education promoted	✓ % of school practicing green initiatives ✓ % of students with student health hand book (class PP-VII) ✓ % of schools with trained school health coordinators ✓ % of school implementing Life Skill Education (LSE) ✓ No. of GNH related activities organized ✓ % of staff covered by	Ministry of Education		

		Environment	<p>Quality and relevance of tertiary education (learners' experience) enhanced¹⁴⁶</p> <p>Institutional capacity in natural resources management strengthened¹⁴⁷</p> <p>Education and awareness activities on sustainable use of biological resources improved¹⁴⁸</p> <p>Strengthened environmental monitoring, information management and communication¹⁴⁹</p>	<p>critical pedagogy and contemplative education workshops</p> <p>✓ GNH values and holistic education modules introduced as foundation in all courses</p> <p>✓ No. of development activities consistent with green practices</p> <p>✓ % of students taking GNH/value education modules</p> <p>✓ Graduates with certificate in forestry and environmental studies (Nos)</p> <p>✓ Training on other ecological themes conducted (Nos)</p> <p>✓ EE Master plan for GRFs developed and implemented (Nos)</p> <p>✓ People made aware of conservation significance (%)</p> <p>✓ No. of environmental awareness conducted/ Global Environmental events observed</p> <p>✓ Bhutan Environment Outlook and State of Environment Report for Dzongkhags published</p>	<p>Ministry of Agriculture and Forests</p> <p>National Environment Commission</p>	
Planet	Goal 13. Take urgent action to combat climate change and its impacts					

13.1 Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries	Renewable Natural Resources	Enhanced capacity of the local communities to adapt to changing climate ¹⁵⁰	<ul style="list-style-type: none"> ✓ Resilient local crop varieties promoted in selected sites (Nos) ✓ Functional community seed banks(Nos) ✓ Farmers trained on local genetic resources(Nos) 	Ministry of Agriculture and Forests	
	Health	Response to Health impact due to environmental and climate change strengthened ¹⁵¹	<ul style="list-style-type: none"> ✓ Establishment of integrated surveillance system for monitoring climate sensitive health risk ✓ Climate change and health adaptation developed and implemented 	Ministry of Health	
	Construction	Eco-friendly/disaster resilient, innovative and good quality construction promoted ¹⁵²	<ul style="list-style-type: none"> ✓ No. of flood preventive infrastructures in place (DES) 	Ministry of Works and Human Settlement	
13.2 Integrate climate change measures into national policies, strategies and planning	Environment	National policies, plans and capacity strengthened to achieve carbon neutral and climate resilient development ¹⁵³	<ul style="list-style-type: none"> ✓ Nationally appropriate mitigations actions (NAMAs) Developed ✓ National Adaptation Plans (NAP) developed ✓ National Strategy for Climate Resilient and Carbon Neutral Development developed ✓ ECP mainstreamed in policies, plans and projects at the central and local level 	National Environment Commission	
		REDD+ Readiness activities initiated to implement climate change adaptation in watersheds ¹⁵⁴	<ul style="list-style-type: none"> ✓ Experimental or observatory plots in different ecological zones established (Nos.) ✓ National REDD+ strategy developed ✓ REDD+ scheme piloted 	Ministry of Agriculture and Forests	

		Construction	Enhanced disaster preparedness at all levels ¹⁵⁵ Eco-friendly/disaster resilient, innovative and good quality construction promoted ¹⁵⁶	<ul style="list-style-type: none">✓ Disaster risk reduction mainstreamed in key sectors✓ No. of Dzongkhags with Disaster Management and Contingency Plan✓ Functional National Disaster Management Authority✓ No. of Dzongkhag Disaster Management Committee ✓ % coverage of eco-efficient/ disaster resilient technologies (DES)	Ministry of Home and Cultural Affairs Ministry of Works and Human Settlement	
13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning	Hydromet	Improved flood/ GLOF early warning services to minimize the loss of live and property ¹⁵⁷ Delivery of hydrological and related environmental information & services to the public, government and other users enhanced ¹⁵⁸ Flood Warning Network and Infrastructure expanded ¹⁵⁹ GLOF Early Warning System installed and operational ¹⁶⁰	<ul style="list-style-type: none">✓ Daily river flow forecasting (Nos)✓ Basin wise Flood/GLOF early warning systems (Nos) ✓ Access to online hydrological information (%)✓ Climate and water resources studies (Nos) ✓ New real time flood warning station installed and operational (Nos)✓ Existing flood warning station upgraded to real time (Nos) ✓ GLOF EWS in river basin (Nos)✓ Flood forecasting and warning center established (Nos)	Ministry of Economic Affairs		

			Capacity in hydrological modeling and glacier mass balance monitoring enhanced ¹⁶¹	<ul style="list-style-type: none"> ✓ Data quality control (%) ✓ Hydrological models run and operated (Nos) ✓ Glacier monitoring field station established (Nos) 		
			Hydrological data book and research papers published ¹⁶²	<ul style="list-style-type: none"> ✓ Data book published (Nos) ✓ Pamphlets related to flood advisories printed and uploaded (Nos) 		
			Improved weather & climate monitoring services with good national coverage ¹⁶³	<ul style="list-style-type: none"> ✓ Modernised meteorological observing & monitoring network/infrastructure (Nos) ✓ Access to timely & accurate meteorological information (%) ✓ Daily Weather & climate forecasting (Days) 		
			Improved delivery of weather, climate & related environmental information & services to the public, government and other users ¹⁶⁴	<ul style="list-style-type: none"> ✓ Research, modeling, climate prediction products for climate change, disaster risks reduction & socio-economic benefits (Nos) ✓ Climate & weather and other meteorological studies (Nos) 		
			Weather, climate information & prediction products are improved ¹⁶⁵	<ul style="list-style-type: none"> ✓ Models installed and used (Nos) ✓ Operational access to NWP products including effective use & interpretations (Nos) ✓ Route and aviation advisories (Nos) ✓ Seasonal prediction for socioeconomic sector (Nos) 		
			Improved availability & access to reliable, high quality hydro-meteorological data ¹⁶⁶	<ul style="list-style-type: none"> ✓ Central Data base system with GIS (Nos) 		

		Environment	<p>Strengthened capacities for DRR at all levels¹⁶⁷</p> <p>Planning and disaster preparedness strategies strengthened¹⁶⁸</p> <p>Response and reporting mechanisms enhanced¹⁶⁹</p> <p>Strengthened capacity of DDM¹⁷⁰</p>	<ul style="list-style-type: none"> ✓ Availability of observational data to users (%) ✓ Real time delivery of collected observational data from remote station (%) ✓ Historical climate data (Nos) ✓ No. of disaster preparedness & response training/awareness for institutions conducted ✓ No. of agencies and focal persons trained on Mainstreaming DRR into plans and policies ✓ No. of Disaster Management and Contingency Planning Guidelines developed ✓ No. of institutions networked with functional DM information and reporting system at all level ✓ No. of Disaster rapid response team constituted and equipped with SAR equipments ✓ No. of functional Emergency Operation Centre established ✓ No. of infrastructure established 	Ministry of Home and Cultural Affairs	
Planet	Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt					

	and reverse land degradation and halt biodiversity loss					
	15.1 By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements	Environment	<p>Obligations under Multilateral Environment Agreements fulfilled¹⁷¹</p> <p>Commitment to international and regional conventions maintained¹⁷²</p> <p>Negative impact on environment from development activities minimized or avoided¹⁷³</p> <p>Environmental management services improved¹⁷⁴</p> <p>Legal framework and law enforcement strengthened¹⁷⁵</p> <p>Natural resources utilized and managed sustainably¹⁷⁶</p>	<p>✓ 35% reduction of HCFC use in Bhutan by 2018</p> <p>✓ Transboundary conservation initiatives (Nos.)</p> <p>✓ All activities undergo EA process as per the regulation for environmental clearance projects 2002</p> <p>✓ Anti-Corruption Strategy implemented</p> <p>✓ EA Act and regulation implemented and enforced</p> <p>✓ No. of environmental laws developed and revised</p> <p>✓ Sensitization on environmental laws conducted in all dzongkhags</p> <p>✓ Contribution to environmental & social services (%)</p>	<p>National Environment Commission</p> <p>Ministry of Economic Affairs</p>	
	15.2 By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally	Environment	<p>Enhanced biodiversity conservation to improve natural habitats and maintain species persistence¹⁷⁷</p> <p>Management plans for protected areas, biological corridors and recreational areas prepared¹⁷⁸</p>	<p>✓ Proportion of land area under effective protected area management (%)</p> <p>✓ Management plans for PAs developed/ revised (Nos)</p> <p>✓ Protected areas managed based on functional zones to integrate conservation and development (Nos)</p> <p>✓ Community Based</p>	Ministry of Agriculture and Forests	

			<p>Natural heritage, nature recreation, heritage forests and greening zones increased¹⁷⁹</p> <p>Promoted sustainable management and utilization of state forests¹⁸⁰</p> <p>Enhanced sustainable harvesting of timber and NWFP¹⁸¹</p>	<p>Conservation Program (CBCP) implemented in PAs (Nos)</p> <p>✓ Management plans for nature parks with Environment Education model developed (Nos)</p> <p>✓ New nature recreation, cultural sites, and heritage forests identified and operationalized (Nos)</p> <p>✓ Man and biosphere reserve established (Nos)</p> <p>✓ Forest area under sustainable management (ha)</p> <p>✓ Proportion of local communities and institutions participating in sustainable forest management (%)</p> <p>✓ Proportion of wood recovery increased by using upgraded technology in forest based enterprises (%)</p> <p>✓ Income from sale of forest products from CF & NWFP groups (Nu/HH/ Annum)</p> <p>✓ Employment generated through NWFP based enterprises</p> <p>✓ Forest management units & working schemes (Nos)</p> <p>✓ Forest areas managed outside FMU (Nos)</p> <p>✓ Forest areas under scientific thinning plan (hac)</p>		
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			<p>National forest inventory & carbon stock assessment conducted¹⁸²</p> <p>Community participation in forest management and conservation increased¹⁸³</p> <p>Income and employment generation through NWFP based enterprise supported¹⁸⁴</p> <p>Forest information system streamlined and strengthened¹⁸⁵</p> <p>Institutional capacity in natural resources management strengthened¹⁸⁶</p> <p>Water security and ecosystem services ensured through effective IWRM practices in selected watersheds¹⁸⁷</p> <p>REDD+ Readiness activities initiated to implement climate change adaptation in watersheds¹⁸⁸</p>	<ul style="list-style-type: none"> ✓ Carbon assessment report produced (Nos) ✓ Cluster plots surveyed (Nos) ✓ CFs established and functional (Nos) ✓ CFs & NWFP groups registered as Farmers Groups/Cooperatives ✓ New NWFP management groups formed and functioning ✓ New NWFP products developed (Nos) ✓ Functional forest information database (Nos) ✓ G2C services functional in all Dzongkhags (Nos) ✓ Graduates with certificate in forestry and environmental studies (Nos) ✓ Landscapes under Integrated Water Resource Management Plan (Nos.) ✓ Forest fire incidences per year (Nos.) ✓ Forestry offence cases per year (Nos) ✓ Areas under afforestation and reforestation in watersheds (ha) ✓ Experimental or observatory plots in different ecological zones established (Nos.) ✓ National REDD+ strategy 		
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			<p>Conservation and management of wetlands enhanced¹⁸⁹</p> <p>Payment for Environmental Services (PES) schemes in selected watersheds increased¹⁹⁰</p> <p>Plantation in barren and degraded forest areas increased¹⁹¹</p> <p>Education and awareness activities on sustainable use of biological resources improved¹⁹²</p> <p>Forest Legislations revised¹⁹³</p> <p>Forest Research on various theme conducted to generate knowledge, information and technology¹⁹⁴</p> <p>Community based ecotourism promoted¹⁹⁵</p>	<p>developed ✓ REDD+ scheme piloted</p> <p>✓ Wetland inventory conducted (Nos) ✓ Ramsar site declared (Nos) ✓ Wetland complex (Nos)</p> <p>✓ PES Framework in place (Nos) ✓ Functional PES scheme (Nos)</p> <p>✓ Plantation established and managed sustainably in GRF land ✓ Plantation in FMU</p> <p>✓ EE Master plan for GRFs developed and implemented (Nos) ✓ People made aware of conservation significance (%)</p> <p>✓ Forest Act, Rules and Strategies revised</p> <p>✓ Sustainable forest management researches conducted n(Nos)</p> <p>✓ Community based ecotourism sites in GRFs (Nos)</p>		
15.3 By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought and floods, and strive to achieve a land degradation-neutral world	Environment	<p>Management plans for watersheds within major river basins developed and implemented¹⁹⁶</p> <p>Plantation in barren and degraded forest areas increased¹⁹⁷</p>	<p>✓ Management plans for degraded watersheds developed (Mangdechhu, Kurichu, Punatsangchhu and Wangchhu) (Nos)</p> <p>✓ Plantation established and managed sustainably in</p>	Ministry of Agriculture and Forests		

				GRF land ✓ Plantation in FMU		
	15.4 By 2030, ensure the conservation of mountain ecosystems, including their biodiversity, in order to enhance their capacity to provide benefits that are essential for sustainable development					No explicit reference to 'mountain ecosystems' in the NDP. As Bhutan is a mountainous country, the work on ecosystems & biodiversity as reflected in the NDP most likely also relates to mountain ecosystems.
	15.5 Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity and, by 2020, protect and prevent the extinction of threatened species	Environment	<p>Management plans for protected areas, biological corridors and recreational areas prepared¹⁹⁸</p> <p>Conservation of endangered and endemic species enhanced¹⁹⁹</p> <p>Enhanced biodiversity conservation to improve natural habitats and maintain species persistence²⁰⁰</p>	<p>✓ Conservation programs for endangered and endemic species developed (Nos)</p> <p>✓ Faunal population status updated (Nos)</p> <p>✓ National Tiger population revalidated region-wise (Nos)</p> <p>✓ Endemic floral population status updated (Nos)</p> <p>✓ Predator -prey dynamics for species established (Nos)</p> <p>✓ Population status of selected endangered species [mammals] - (Nos)</p> <p>✓ Population status of selected endemic species-birds - (Nos)</p> <p>✓ Proportion of land area under effective protected area management (%)</p> <p>✓ Proportion of Nature Based Tourists increased through Nature Recreation and Community Based Ecotourism (%)</p>	Ministry of Agriculture and Forests	

			<p>Forest Research on various theme conducted to generate knowledge, information and technology²⁰¹</p> <p>Social and Environmental integrated in HPP construction</p> <p>Reduction in industrial pollution²⁰²</p> <p>Improved environmental compliance²⁰³</p>	<p>✓ Human Wildlife Conflict incidences reduced (number of cases in a year)</p> <p>✓ Species conservation researches conducted (Nos)</p> <p>✓ Amount incurred towards environment management and development of social infrastructures (million Nu)</p> <p>✓ Pollutant/discharge level within national level (Nos)</p> <p>✓ Compliance of environmental rules and regulations by industries (Nos)</p>	Ministry of Economic Affairs	
15.6 Ensure fair and equitable sharing of the benefits arising from the utilization of genetic resources and promote appropriate access to such resources	Renewable Natural Resources	<p>Enabling legal and policy environment for biodiversity conservation and sustainable use program developed²⁰⁴</p> <p>Sustainable utilization of biological resources promoted²⁰⁵</p>	<p>✓ Policies addressing agro-biodiversity and access and benefit-sharing in place(Nos)</p> <p>✓ National implementation mechanism for agro-biodiversity and access and benefit sharing in place(Nos)</p> <p>✓ Proportion of TK associated with biological resources available on the National TK database (%)</p> <p>✓ ABS agreements formalized (Nos)</p> <p>✓ Community based biological resources management groups supported through Bhutan access and benefit sharing funds(Nos)</p>	Ministry of Agriculture and Forests		

<p>15.7 Take urgent action to end poaching and trafficking of protected species of flora and fauna and address both demand and supply of illegal wildlife products</p>	<p>Environment</p>	<p>Management plans for protected areas, biological corridors and recreational areas prepared²⁰⁶</p> <p>Conservation of endangered and endemic species enhanced²⁰⁷</p> <p>Human Wildlife Conflict (HWC) mitigation measures enhanced²⁰⁸</p> <p>Incidences of forest fire, poaching and illegal trade of forests and wildlife products reduced²⁰⁹</p>	<ul style="list-style-type: none"> ✓ Conservation programs for endangered and endemic species developed (Nos) ✓ Faunal population status updated (Nos) ✓ National Tiger population revalidated region-wise (Nos) ✓ Endemic floral population status updated (Nos) ✓ Predator -prey dynamics for species established (Nos) ✓ HWC hotspots mapped for 9 parks and 10 TFDs (Nos.) ✓ Functional gewog HWC management committees (Nos) ✓ Pilot innovative biological measures initiatives (Nos.) ✓ Forest protection & service delivery improved (Rating) ✓ People made aware of watershed management significance (%) 	<p>Ministry of Agriculture and Forests</p>	
<p>15.8 By 2020, introduce measures to prevent the introduction and significantly reduce the impact of invasive alien species on land and water ecosystems and control or eradicate the priority species</p>	<p>Renewable Natural Resources</p>	<p>National Biosecurity and Biosafety Enhanced²¹⁰</p>	<ul style="list-style-type: none"> ✓ Proportion of known exotic pests and diseases of animals prevalent in neighboring countries/world prevented from entry into the country (%) ✓ Proportion of known exotic pests and diseases of plants prevalent in neighboring countries/world prevented from entry into the country (%) ✓ Percent of genetically modified plants and 	<p>Ministry of Agriculture and Forests</p>	

			<p>Regulatory and Quarantine System strengthened²¹¹</p> <p>Biosafety measures enhanced²¹²</p>	<p>animals prevented from introduction into the country (%)</p> <p>✓ Percent of unauthorized genetically modified products prevented from entry into the country (%)</p> <p>✓ Number of diagnostic labs established at the Quarantine Stations and Dzongkhags</p> <p>✓ Number of Plant & Animal Quarantine Stations equipped with decontamination facilities</p> <p>✓ Functional biosafety regulatory system in place (Nos)</p> <p>✓ Biosafety Technical Working Group (BTWG) established and functional (Nos)</p> <p>✓ Fully functional GMO laboratory (Nos)</p> <p>✓ Biosafety Act of Bhutan drafted (Nos)</p> <p>✓ Guidelines and protocols for regulation of GMOs/LMOs and GM products developed (Nos)</p>		
15.9 By 2020, integrate ecosystem and biodiversity values into national and local planning, development processes, poverty reduction strategies and accounts	Environment	National policies, plans and capacity strengthened to achieve carbon neutral and climate resilient development ²¹³	<p>✓ ECP mainstreamed in polices, plans and projects at the central and local level</p> <p>✓ Nationally appropriate mitigations actions (NAMAs) Developed</p> <p>✓ National Adaptation Plans (NAP) developed</p> <p>✓ National Strategy for</p>	National Environment Commission		

			<p>REDD+ Readiness activities initiated to implement climate change adaptation in watersheds²¹⁴</p> <p>Negative impact on environment from development activities minimized or avoided²¹⁵</p>	<p>Climate Resilient and Carbon Neutral Development developed</p> <p>✓ National REDD+ strategy developed</p> <p>✓ Integrated Water Resources Management Plan (IWRM) Developed</p>		
Prosperity	Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all					
	7.1 By 2030, ensure universal access to affordable, reliable and modern energy services	Energy	Improved access to clean and affordable energy ²¹⁶	<p>✓ HHs connected with grid electricity (Nos)</p> <p>✓ Village entrepreneurs knowledge enhanced on O&M of Renewable Energy Technologies (Nos)</p> <p>✓ HHs electrified through solar (Nos)</p>	Ministry of Economic Affairs	
		Roads and Bridges	Timely start of the Hydropower Projects facilitated ²¹⁷	<p>✓ New Hydro Power Project provided access (Nos.)</p>	Ministry of Works and Human Settlement	
	7.2 By 2030, increase substantially the share of renewable energy in the global energy mix	Energy	<p>Energy security enhanced through diversification and promotion of renewable energy technologies²¹⁸</p> <p>Alternate/ renewable energy diversified/promoted²¹⁹</p>	<p>✓ Electricity generation from Renewable Energy Technologies (kW)</p> <p>✓ Alternate form of energy systems (improved cook stoves, biogas, solar water heater) (Nos)</p> <p>✓ Policies and rules formulated and adopted (Nos)</p> <p>✓ Wind power plant (Nos)</p> <p>✓ Small hydro power plant (Nos)</p>	Ministry of Economic Affairs	

			<p>Improved access to clean and affordable energy²²⁰</p> <p>Applied Research and Development on RE Technologies initiated²²¹</p>	<ul style="list-style-type: none"> ✓ Biomass power project (Nos) ✓ Improved cook stoves (Nos) ✓ Biogas plant in place (Nos) ✓ Solar water heating system in place (Nos) ✓ RE Policy, rules and regulation (Nos) ✓ Renewable Energy Development Fund management and operational frame work in place (Nos) ✓ Solar power plant (Nos) ✓ Village entrepreneurs knowledge enhanced on O&M of Renewable Energy Technologies (Nos) ✓ HHs electrified through solar (Nos) ✓ Functional laboratory in place (Nos) ✓ Research activities initiated and its reports/journal produced (Nos) ✓ National energy data directory in place (Nos) ✓ Appropriate standards and labels developed for import of energy consuming products and appliances (Nos) ✓ Advocacy events on renewable energy and energy efficiency (Nos) 		
	7.3 By 2030, double the global rate of improvement in energy efficiency	Energy	Alternate/ renewable energy diversified/promoted ²²²	<ul style="list-style-type: none"> ✓ Energy efficiency policy and its rules& Regulation (Nos) 	Ministry of Economic Affairs	
Prospe	Goal 8. Promote sustained, inclusive and					

Sustainability	sustainable economic growth, full and productive employment and decent work for all					
	8.1 Sustain per capita economic growth in accordance with national circumstances and, in particular, at least 7 per cent gross domestic product growth per annum in the least developed countries	Energy	Energy security enhanced ²²³	<ul style="list-style-type: none">✓ Installed capacity of HPP✓ Total HV transmission lines constructed✓ Installed capacity of Biomass²³³✓ Installed small HPP capacity²³⁴✓ Installed solar power capacity²³⁵✓ Installed wind power capacity²³⁶	Ministry of Economic Affairs	
			National Capacity to Design, Build, Operate and Manage HPP developed ²²⁴	<ul style="list-style-type: none">✓ No. of Bhutanese contractors qualifying for bidding for HPP		
			Contribution to GDP, revenue and employment increased ²²⁵	<ul style="list-style-type: none">✓ Contribution to domestic revenue (in Mil. Nu)		
		Trade	Contribution to GDP and employment increased ²²⁶	<ul style="list-style-type: none">✓ Trade sector contribution to annual GDP growth✓ No. of Bhutanese employed over plan period	Ministry of Economic Affairs	
			Enabling environment created ²²⁷	<ul style="list-style-type: none">✓ Ease of Doing Business improved in targeted areas✓ Legal framework✓ No. of dry Ports✓ FDI inflow excluding Hydropower (in Nu.Mil)²³⁷		
			Export Promoted ²²⁸	<ul style="list-style-type: none">✓ No. of new export products✓ Value of exports of goods annually (without electricity) - Nu. Billion		
			Economic expansion and diversification enhanced ²²⁹	<ul style="list-style-type: none">✓ Industrial Estates/SEZ developed✓ No. of large and medium		

		Information & Communication Technology & Media	Access to reliable and affordable ICT and media services improved ²³⁰	industries ✓ Dzongkhag with access to high speed internet services ✓ Villages with reliable mobile network	Ministry of Information & Communications	
		Tourism	Contribution to GDP, Revenue and Employment increased ²³¹ Bhutan promoted as a high-end destination by ensuring improved service delivery, contribution to GDP and employment, and increased yield ²³²	✓ Contribution to GDP (US\$ m) ✓ Revenue generation mil. US \$ ✓ Annual tourist arrivals (Nos) ✓ % of tourist visiting East, south and central circuits ✓ Yield per tourist/night (US \$)	Ministry of Economic Affairs	
8.2 Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors	Energy		Energy security enhanced through diversification and promotion of renewable energy technologies ²³⁸ Alternate/ renewable energy diversified/promoted ²³⁹	✓ Electricity generation from Renewable Energy Technologies (kW) ✓ Alternate form of energy systems (improved cook stoves, biogas, solar water heater) (Nos) ✓ Policies and rules formulated and adopted (Nos) ✓ Wind power plant (Nos) ✓ Small hydro power plant (Nos) ✓ Biomass power project (Nos) ✓ Improved cook stoves (Nos) ✓ Biogas plant in place (Nos) ✓ Solar water heating system in place (Nos) ✓ RE Policy, rules and regulation (Nos)	Ministry of Economic Affairs	

		Information & Communication Technology & Media	<p>Applied Research and Development on RE Technologies initiated²⁴⁰</p> <p>Bhutan Tech Village established²⁴¹</p>	<ul style="list-style-type: none"> ✓ Renewable Energy Development Fund management and operational frame work in place (Nos) ✓ Solar power plant (Nos) ✓ Functional laboratory in place (Nos) ✓ Research activities initiated and its reports/journal produced (Nos) ✓ National energy data directory in place (Nos) ✓ Appropriate standards and labels developed for import of energy consuming products and appliances (Nos) ✓ No. of business incubates successfully incubated ✓ No. of Bhutanese employed 	Ministry of Information & Communications	
8.3 Promote development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalization and growth of micro-, small- and medium-sized enterprises, including through access to financial services	Employment and Human Resource Development		<p>Enhanced employability of registered jobseekers²⁴²</p> <p>Youth undertake entrepreneurship as a preferred career option²⁴³</p> <p>Social protection for private sector employees enhanced²⁴⁴</p>	<ul style="list-style-type: none"> ✓ Implementation of National Employment Policy (NEP) ✓ No of National Entrepreneurship Strategy developed ✓ Social Protection Policy developed 	Ministry of Labour and Human Resources	
	Energy		Improved access to clean and affordable energy ²⁴⁵	<ul style="list-style-type: none"> ✓ Village entrepreneurs knowledge enhanced on O&M of Renewable Energy Technologies (Nos) 	Ministry of Economic Affairs	
	Information &		ICT literacy enhanced ²⁴⁶	<ul style="list-style-type: none"> ✓ % increase in ICT literacy 	Ministry of	

		Communication Technology & Media		as a percentage of literate population ✓ No. of National/Regional Level ICT promotion programmes/activities conducted	Information and Communications	
		Environment	Community based ecotourism promoted ²⁴⁷	✓ Community based ecotourism sites in GRFs (Nos)	Ministry of Agriculture and Forests	
		Preservation and Promotion of Culture	Contribution to employment enhanced ²⁴⁸	✓ No of jobs created by Cultural industries	Ministry of Home and Cultural Affairs	
	8.4 Improve progressively, through 2030, global resource efficiency in consumption and production and endeavor to decouple economic growth from environmental degradation, in accordance with the 10-year framework of programmes on sustainable consumption and production, with developed countries taking the lead	Mining	Geological mapping, mineral exploration and mineral development in sustainable and environment friendly manner carried out ²⁴⁹	✓ Laws amended/revised to promote scientific method, sustainable and environmental friendly mining (Nos) ✓ Mines receiving full tax credit for complying beyond environmental standards (Nos)	Ministry of Economic Affairs	
		Energy	Energy security enhanced through diversification and promotion of renewable energy technologies ²⁵⁰	✓ Wind power plant (Nos) ✓ Small hydro power plant (Nos) ✓ Biomass power project (Nos) ✓ Improved cook stoves (Nos) ✓ Biogas plant in place (Nos) ✓ Solar water heating system in place (Nos) ✓ RE Policy, rules and regulation (Nos) ✓ Renewable Energy Development Fund management and operational frame work in place (Nos) ✓ Solar power plant (Nos)		

		Environment	Sustainable production and efficient utilization of timber enhanced	<ul style="list-style-type: none"> ✓ Percent recovery rate of wood from upgraded technology (RNR Stats. 2012) ✓ Forest area brought under sustainable forest management (RNR stats. 2012) 	Ministry of Agriculture and Forests	
		Industry	Reduction in industrial pollution ²⁵¹	<ul style="list-style-type: none"> ✓ Pollutant/discharge level within national level (Nos) 	Ministry of Economic Affairs	
	8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value	Employment and Human Resource Development	<p>Full employment achieved (97.5%)</p> <p>Enhanced employability of registered jobseekers²⁵²</p>	<ul style="list-style-type: none"> ✓ Youth unemployment ✓ % of employee with education level of higher secondary and above ✓ % of job seeking graduates employed within 6 months of graduation ✓ % of regular paid employee ✓ Chronic/long term unemployment ✓ Female youth unemployment ✓ Rural unemployment maintained ✓ % of jobseekers employed in various agencies ✓ % of Job seekers placed directly by Employment Service Centres (ESC) ✓ % of youth placed through Apprenticeship Training Program (ATP) ✓ % of youth placed through Pre-employment Engagement Program (PEEP) ✓ % of youth placed through University Graduate 	Ministry of Labour and Human Resources	

		Renewable Natural Resources	Generate additional employment opportunities and increase mean annual rural household cash income ²⁵³	<ul style="list-style-type: none"> ✓ Internship Program (UGIP) ✓ No. of educated youth engaged in home based tourism activities in rural areas ✓ Implementation of National Employment Policy (NEP) 		
		Geology and Mines	GDP Contribution and employment increased ²⁵⁴	<ul style="list-style-type: none"> ✓ Annual cash income from sale of RNR products (Nu. in millions/annum) ✓ Percent contribution of agriculture income to total hh income (%) 	Ministry of Agriculture and Forests	
		Energy	Contribution to GDP, revenue and employment increased ²⁵⁵	<ul style="list-style-type: none"> ✓ No. of Bhutanese employed by gender 	Ministry of Economic Affairs	
		Trade	Contribution to GDP and employment increased ²⁵⁶	<ul style="list-style-type: none"> ✓ No. of bhutanese employed 		
			Contribution to GDP, revenue and employment increased ²⁵⁷	<ul style="list-style-type: none"> ✓ No. of Bhutanese employed over plan period 		
		Industry	Contribution of GDP and employment increased ²⁵⁸	<ul style="list-style-type: none"> ✓ Contribution to employment through promotion of creative industries (%) 		
			CSIs contribute to National Employment and Alleviation of Poverty ²⁵⁹	<ul style="list-style-type: none"> ✓ No. of Bhutanese employed over plan period 		
			Enhanced human capital & develop culture of entrepreneurship ²⁶⁰	<ul style="list-style-type: none"> ✓ Operational CSIs (Nos) ✓ Additional People employed by CSIs (Nos) ✓ Entrepreneurs trained on business management (Nos) ✓ Entrepreneurs trained on advance hard skills (Nos) ✓ Business advocacy workshops to potential entrepreneurs (Nos) 		

		Education	Enhanced capacity of institutions (DCSI, NGO or private) supporting CSIs ²⁶¹ Full employment achieved (97.5%) ²⁶²	<ul style="list-style-type: none"> ✓ Officials trained in strategic CSI development methodologies (nos) ✓ CSI entrepreneurs learning exchange tour to regional countries (Nos) ✓ Youth unemployment ✓ % of job seeking graduates employed within 6 months of graduation 	Ministry of Education/ Royal Institute of Management	
		Information and Communication Technology & Media	Contribution to GDP and number of job created ²⁶³	<ul style="list-style-type: none"> ✓ No. of Bhutanese employed (IT/ ITES) by gender 	Ministry of Information and Communications	
		Construction	Contribution to GDP and employment opportunities created ²⁶⁴	<ul style="list-style-type: none"> ✓ No. Bhutanese employed in construction industry by gender 	Ministry of Works and Human Settlement	
	8.6 By 2020, substantially reduce the proportion of youth not in employment, education or training	Employment and Human Resource Development	<p>Maintain full employment²⁶⁵</p> <p>Youth undertake entrepreneurship as a preferred career option²⁶⁶</p>	<ul style="list-style-type: none"> ✓ Youth unemployment rate(%) ✓ Female youth unemployment rate(%) ✓ % of job seeking graduates employed within 6 months of graduation ✓ No. of youth trained in entrepreneurship (BEC, CEC and AEC) ✓ No. of new business start-ups ✓ No of Entrepreneurship course integrated in all TTIs & IZCs ✓ No of National Entrepreneurship Strategy developed 	Ministry of Labour and Human Resources	

			Enhanced employability of registered jobseekers ²⁶⁷	<ul style="list-style-type: none">✓ No of National Appreciation award system instituted✓ % of youth placed through Apprenticeship Training Program (ATP)✓ % of youth placed through Pre-employment Engagement Program (PEEP)✓ % of youth placed through University Graduate Internship Program (UGIP)✓ No. of educated youth engaged in home based tourism activities in rural areas		
8.7 Take immediate and effective measures to eradicate forced labour, end modern slavery and human trafficking and secure the prohibition and elimination of the worst forms of child labour, including recruitment and use of child soldiers, and by 2025 end child labour in all its forms	Emerging Social Challenges	Child's Right to Protection Enhanced ²⁶⁸	<ul style="list-style-type: none">✓ % of children engaged in harmful child labour✓ % of children with the capacity to claim their right to protection✓ Child Care and Protection Act (CCPA) Operational Plan implemented✓ No. of institutional mechanisms and support services in place✓ No. of programmes developed to promote children's right to protection (by gender by sector)✓ No. of vulnerable children/orphans reduced (by gender)	National Commission for Women and Children		
8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those	Employment and Human Resource Development	Working environment in private sector improved ²⁶⁹	<ul style="list-style-type: none">✓ Improved working conditions✓ Social protection for private sector employees promoted	Ministry of Labour and Human Resources	No mention of promoting safe and secure working environments for migrants and those in precarious employment. Focus	

	in precarious employment					is on private sector workers.
	8.9 By 2030, devise and implement policies to promote sustainable tourism that creates jobs and promotes local culture and products	Tourism Renewable Natural Resources Employment and Human Resource Development Environment	Environment conservation promoted and wellbeing of rural communities improved through eco-tourism ²⁷⁰ Increased alternate income generation sources ²⁷¹ Enhanced employability of registered jobseekers ²⁷² Enhanced efficiency and effectiveness of RNR service delivery ²⁷³ Enhanced biodiversity conservation to improve natural habitats and maintain species persistence ²⁷⁴ Community based ecotourism promoted ²⁷⁵	✓ % of tourists on eco-tourism ✓ Rural communities benefitting from eco-tourism (project areas) ✓ Livestock based ecotourism initiatives (Nos) ✓ No. of educated youth engaged in home based tourism activities in rural areas ✓ Role of Park & Forest Services in protecting and promoting ecotourism developed ✓ Proportion of Nature Based Tourists increased through Nature Recreation and Community Based Ecotourism (%) ✓ Community based ecotourism sites in GRFs (Nos)	Tourism Council of Bhutan Ministry of Agriculture and Forests Ministry of Labour and Human Resources Ministry of Agriculture and Forests	
	8.10 Strengthen the capacity of domestic financial institutions to encourage and expand access to banking, insurance and financial services for all					
Prospe	Goal 9. Build resilient infrastructure, promote					

rity	inclusive and sustainable industrialization and foster innovation					
	9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all	Tourism	<p>Infrastructures and facilities built²⁷⁶</p> <p>Integrated Tourism infrastructures developed²⁷⁷</p>	<ul style="list-style-type: none"> ✓ New and functional infrastructure in place (Nos) ✓ New trekking routes operationalized (Nos) ✓ Road side amenities (Nos) ✓ Special interest tour (eg. bird watching, mountain biking, river rafting, butterfly tours etc.) related infrastructure developed (Nos) 	Ministry of Works and Human Settlement	
		Transport	Access to adequate, sustainable and inclusive public transport increased. ²⁷⁸	<ul style="list-style-type: none"> ✓ % of motorable roads provided with public transport services ✓ % of public transport services provided with facilities for differently-abled persons ✓ % of buses plying as per schedule ✓ Percentage of urban Public Transport Services (buses) with separate seats/sections for differently-abled and senior citizens. 	Ministry of Works and Human Settlement	
		Roads and Bridges	<p>Improved access to socio-economic facilities for beneficiaries²⁷⁹</p> <p>Roads connecting Hydropower Projects constructed and upgraded²⁸⁰</p>	<ul style="list-style-type: none"> ✓ Travel time in trucking hours along the Southern East West highway (Hrs) ✓ New roads connecting hydropower projects constructed (Km) 	Ministry of Works and Human Settlement	

	Construction	Safe, high quality and sustainable disaster resilient infrastructures in place ²⁸¹	<ul style="list-style-type: none">✓ Roads connecting Hydropower projects upgraded/Improved (km)✓ Sustainable infrastructure development technology introduced (%)	Ministry of Works and Human Settlement	
9.2 Promote inclusive and sustainable industrialization and, by 2030, significantly raise industry's share of employment and gross domestic product, in line with national circumstances, and double its share in least developed countries	Industry	<p>Contribution of GDP and employment increased²⁸²</p> <p>Promote Green industries and eco-efficient Technologies²⁸³</p>	<ul style="list-style-type: none">✓ Contribution to GDP Annually (in Nu. Mil.)✓ No. of Bhutanese employed over plan period✓ Industries using low polluting and emission technology	Ministry of Economic Affairs	
9.3 Increase the access of small-scale industrial and other enterprises, in particular in developing countries, to financial services, including affordable credit, and their integration into value chains and markets	Industry	Enhanced growth and development of CSIs ²⁸⁴	<ul style="list-style-type: none">✓ Region specific resource inventory for business opportunity (Nos)✓ Financial package developed and marketed by FIs (Nos)	Ministry of Economic Affairs	Challenges reported: limited access to finance by the CSIs, difficulty to access viable markets, limited industrial infrastructure, limited entrepreneurial talent/skills, use of outmoded technology, high transportation costs, low economy of scale and, poor R&D and innovation culture among enterprises.
9.4 By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound	Industry	<p>Promote Green industries and eco-efficient Technologies²⁸⁵</p> <p>Improved environmental compliance²⁸⁶</p>	<ul style="list-style-type: none">✓ Industries using low polluting and emission technology✓ Compliance of environmental rules and regulations by industries	Ministry of Economic Affairs	

	technologies and industrial processes, with all countries taking action in accordance with their respective capabilities	Transport	Alternative modes of transport explored/ introduced ²⁸⁷	(Nos) ✓ Number of feasibility studies on alternative modes of transport carried out by type ✓ Number of alternative modes introduced	Ministry of Works and Human Settlement	
	9.5 Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1 million people and public and private research and development spending	Industry Energy Education	Assessments/ studies carried out ²⁸⁸ Applied Research and Development on RE Technologies initiated ²⁸⁹ Research and innovations developed and promoted ²⁹⁰	✓ Study on enhancement of productivity in existing industries (Nos) ✓ Research activities initiated and its reports/journal produced (Nos) ✓ Functional laboratory in place (Nos) ✓ No. of research projects/studies carried out annually ✓ No. of grants generated annually through research, innovation and services beside govt. allocation ✓ No. of papers presented and/or published annually ✓ No. of papers published in peer reviewed journal annually	Ministry of Economic Affairs Ministry of Education/ Royal University of Bhutan	
Prosperity	Goal 10. Reduce inequality within and among countries					
	10.1 By 2030, progressively achieve and sustain income growth of the bottom 40 per cent of the population at a rate higher than the national average	Employment and Human Resource Development	Maintain full employment ²⁹¹	✓ Unemployment rate(%) ✓ Youth unemployment rate(%) ✓ Female youth unemployment rate(%) ✓ % of job seeking graduates employed within 6 months	Ministry of Labour and Human Resources	

		Emerging Social Challenges	Increased Income ²⁹²	<ul style="list-style-type: none"> of graduation ✓ Chronic unemployment reduced ✓ HHs income greater than Nu. 46000 per year (%) 	Gross National Happiness Commission	
10.2 By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status	Emerging Social Challenges	Strengthened enabling environment for women and children participation in all spheres ²⁹³	<ul style="list-style-type: none"> ✓ No. of agencies (Govt., NGOs and private) with gender/child sensitive policies ✓ No. of agencies with gender mainstreaming strategies (NPAG/ Gender Action Plan) ✓ No of legislations promoting women's participation (gender equality law/quota legislation/ Legislation for special temporary measures 	National Commission for Women and Children		
	Transport	Increased involvement of women and children in policy making, strategy development and governance ²⁹⁴	<ul style="list-style-type: none"> ✓ % participation of women and children in policy making and strategy development 			
		Facilities for senior citizens and those with special needs incorporated ²⁹⁵	<ul style="list-style-type: none"> ✓ Number of wheel chair ramps constructed ✓ Number of urban Public Transport Services (buses) with separate seats/sections for differently-abled and senior citizens 	Ministry of Works and Human Settlement		
		Rural accessibility enhanced ²⁹⁶	<ul style="list-style-type: none"> ✓ % of geogs with public transport 			
	Construction	Improved quality of infrastructure facilities and services ²⁹⁷	<ul style="list-style-type: none"> ✓ Standards developed 	Ministry of Works and		

		Good Governance	Enhanced safe and reliable access to rural communities ²⁹⁸ Participation in democratic governance deepened and strengthened ²⁹⁹	and incorporated in government infrastructures for differently abled people (%) (DES) ✓ Technical backstopping provided for the construction of trail bridges (Nos.) ✓ Bazams constructed (Nos.) ✓ Existing bridges maintained/ rehabilitated (Nos.) ✓ Agencies implementing gender sensitive policies/strategies	Human Settlement Ministry of Works and Human Settlement	
10.3 Ensure equal opportunity and reduce inequalities of outcome, including by eliminating discriminatory laws, policies and practices and promoting appropriate legislation, policies and action in this regard	Emerging Social Challenges	Legislation, policies, Rules and Standard of procedures reviewed, disseminated, formulated and implemented ³⁰⁰ Strengthened enabling environment for women and children participation in all spheres ³⁰¹	✓ No. of policies responsive to gender needs ✓ No of legislations reviewed and formulated from gender and child responsive perspective ✓ No. of implementing rules and regulations for women empowerment and child protection (for the acts) ✓ No of legislations promoting women's participation (gender equality law/quota legislation/ Legislation for special temporary measures ✓ No. of agencies with gender mainstreaming	National Commission for Women and Children		

		Good Governance	Gender responsive budgeting instituted in annual budget ³⁰²	strategies (NPAG/ Gender Action Plan) ✓ Number of Gender budgeting in annual budget report	Ministry of Finance	
		Education	Opportunities for higher education enhanced including lateral entry into tertiary education ³⁰³	✓ Ratio of females to males in tertiary education (%)	Ministry of Education	
	10.4 Adopt policies, especially fiscal, wage and social protection policies, and progressively achieve greater equality	Emerging Social Challenges	Landless/ economically disadvantaged resettled and poverty reduced ³⁰⁴	✓ Area of land allocated for resettlement (acres)	National Land Commission	
		Employment and Human Resource Development	Working environment in private sector improved ³⁰⁵	✓ Social protection for private sector employees promoted	Ministry of labour and human resources	
	10.5 Improve the regulation and monitoring of global financial markets and institutions and strengthen the implementation of such regulations					
	10.6 Ensure enhanced representation and voice for developing countries in decision-making in global international economic and financial institutions in order to deliver more effective, credible, accountable and legitimate institutions					
Prosperity	10.7 Facilitate orderly, safe, regular and responsible migration and mobility of people, including through the implementation of planned and well-managed migration policies					
	Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable					

11.1 By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums	Human Settlement and Housing	Access to affordable housing enhanced ³⁰⁶	<ul style="list-style-type: none"> ✓ No. (units) of affordable and quality housing constructed (through PPP) ✓ No. of housing units constructed in all Dzongkhags 	Ministry of Works and Human Settlement	
11.2 By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons	Transport	Access to adequate, sustainable and inclusive public transport increased. ³⁰⁷	<ul style="list-style-type: none"> ✓ % of motorable roads provided with public transport services ✓ % of public transport services provided with facilities for differently-abled persons ✓ % of buses plying as per schedule ✓ Percentage of urban Public Transport Services (buses) with separate seats/sections for differently-abled and senior citizens. 	Ministry of Information and Communications	
11.3 By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries	Human Settlement and Housing	Strategic and smart human settlements developed with high liveability index for balanced regional development ³⁰⁸	<ul style="list-style-type: none"> ✓ No. of development plans/ structural plans developed/Local Area Plans ✓ No. of growth centers developed 	Ministry of Works and Human Settlement	
11.4 Strengthen efforts to protect and safeguard the world's cultural and natural heritage	Tourism	Sustainability standards developed and implemented with effective monitoring mechanisms ³⁰⁹	<ul style="list-style-type: none"> ✓ Sustainability standards reviewed (Nos) ✓ Implementation of green growth proposal (Nos) 	Ministry of Home and Cultural Affairs	
11.5 By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the	Human Settlement and Housing	Innovative, affordable and eco efficient/disaster resilient housing construction technology adopted ³¹⁰	<ul style="list-style-type: none"> ✓ No. of houses constructed using innovative and affordable construction technology ✓ No. of eco- 	Ministry of Works and Human Settlement	

direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations	Environment	<p>Enhanced disaster preparedness at all levels³¹¹</p> <p>Strengthened capacity of disaster response and recovery coordination³¹²</p> <p>Strengthened capacities for DRR at all levels³¹³</p>	<p>efficient/disaster resilient buildings constructed</p> <ul style="list-style-type: none"> ✓ Disaster risk reduction mainstreamed in key sectors ✓ Functional National Disaster Management Authority ✓ No. of Dzongkhags with Disaster Management and Contingency Plan ✓ No. of trained response team formed ✓ Response time (No. of hours within which emergency team reaches site of disaster) ✓ No. of disaster preparedness & response training/awareness for institutions conducted ✓ No. of agencies and focal persons trained on Mainstreaming DRR into plans and policies 	Ministry of Home and Cultural Affairs	
11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management	Human Settlement and Housing	Innovative, affordable and eco efficient/disaster resilient housing construction technology adopted ³¹⁴	<ul style="list-style-type: none"> ✓ No. of houses constructed using innovative and affordable construction technology ✓ No. of eco-efficient/disaster resilient buildings constructed ✓ No. of housing complexes with waste management practices instituted 	Ministry of Works and Human Settlement	
11.7 By 2030, provide universal access to safe, inclusive and accessible,					

	green and public spaces, in particular for women and children, older persons and persons with disabilities					
Peace	Goal 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels					
	16.1 Significantly reduce all forms of violence and related death rates everywhere	Good Governance	Security and safety of society enhanced ³¹⁵	<ul style="list-style-type: none"> ✓ % of people who felt safe(GNH survey, 2010) ✓ No. of nationwide crime reported annually (RBP) 	Ministry of Home and Cultural Affairs	
	16.2 End abuse, exploitation, trafficking and all forms of violence against and torture of children	Emerging Social Challenges	Child's Right to Protection Enhanced ³¹⁶	<ul style="list-style-type: none"> ✓ % of children engaged in harmful child labour ✓ % of children with the capacity to claim their right to protection ✓ % of girls who are married before 18 years of age ✓ Child Care and Protection Act (CCPA) Operational Plan implemented ✓ No. of institutional mechanisms and support services in place ✓ No. of programmes developed to promote children's right to protection (by gender by sector) ✓ No. of vulnerable children/orphans reduced (by gender) 	National Commission for Women and Children	
	16.3 Promote the rule of law at the national and international levels and ensure equal access to justice for all	Good Governance	Strengthened Accountability Transparency, Efficiency and Effectiveness in Governance ³¹⁷	<ul style="list-style-type: none"> ✓ Litigants satisfaction with judicial services ✓ National Integrity Score 	Ministry of Home and Cultural Affairs	

	16.4 By 2030, significantly reduce illicit financial and arms flows, strengthen the recovery and return of stolen assets and combat all forms of organized crime	Good Governance	Strengthened Accountability Transparency, Efficiency and Effectiveness in Governance ³¹⁸	✓ Public satisfaction on OAG's efforts in combating corruption cases	Ministry of Home and Cultural Affairs	
	16.5 Substantially reduce corruption and bribery in all their forms	Tourism	Enhance effectiveness and efficiency in delivery of public service ³¹⁹	✓ Anticorruption Strategy implemented	Ministry of Home and Cultural Affairs	
		Roads and Bridges	Enhanced efficiency and Effectiveness of in Public service delivery ³²⁰	✓ Anti-corruption Strategy implemented	Ministry of Works and Human Settlement	
		Construction	Strengthened Accountability Transparency, Efficiency and Effectiveness in Governance ³²¹	✓ Implementation of National Anticorruption Strategy (ACC)	Ministry of Works and Human Settlement	
		Human Settlement and Housing	Effective and efficient public service delivery ³²²	✓ National Anti-corruption strategy implemented	Ministry of Works and Human Settlement	
		Good Governance	Strengthened Accountability Transparency, Efficiency and Effectiveness in Governance ³²³	✓ Implementation of National Anticorruption Strategy	Ministry of Home and Cultural Affairs	
		Environment	Environmental management services improved ³²⁴	✓ Anti-Corruption Strategy implemented	National Environment Commission	
		Education	Enhanced efficiency and effectiveness in public service delivery ³²⁵	✓ Anti-corruption strategy implemented	Ministry of Education	
		Trade, Industries and Mines	Enhanced efficiency and effectiveness in public service delivery ³²⁶	✓ Anti-corruption strategy implemented	Ministry of Economic Affairs	
		Hydropower, Renewable Energy and Hydromet	Enhance effectiveness and efficiency in delivery of public service ³²⁷	✓ Anti-corruption strategy implemented		
		ICT and Media	Effective and efficient public service delivery ³²⁸	✓ Anti-corruption strategy implemented	Ministry of Information and Communications	

	16.6 Develop effective, accountable and transparent institutions at all levels	Transport	Public service delivery improved ³²⁹	✓ Carry out transport sector reorganization and restructuring exercise	Ministry of Information and Communications	
	16.7 Ensure responsive, inclusive, participatory and representative decision-making at all levels	Good Governance	Participation in democratic governance deepened and strengthened ³³⁰	✓ % of female candidates in the elections sustained (ECB) ✓ % Voters turnout in Elections(ECB)	Election Commission of Bhutan	
		Emerging Social Challenges	Strengthened enabling environment for women and children participation in all spheres ³³¹	✓ No of legislations promoting women's participation (gender equality law/quota legislation/ Legislation for special temporary measures ✓ No. of agencies with gender mainstreaming strategies (NPAG/ Gender Action Plan) ✓ No. of agencies (Govt., NGOs and private) with gender/child sensitive policies	National Commission for Women and Children	
			Increased involvement of women and children in policy making, strategy development and governance ³³²	✓ % participation of women and children in policy making and strategy development		
			Legislation, policies, Rules and Standard of procedures reviewed, disseminated, formulated and implemented ³³³	✓ No. of policies responsive to gender needs ✓ No. of implementing rules and regulations for women empowerment and child protection (for the acts) ✓ No of legislations reviewed and formulated from gender and child responsive perspective		

	16.8 Broaden and strengthen the participation of developing countries in the institutions of global governance					
	16.9 By 2030, provide legal identity for all, including birth registration	Good Governance	Effective and efficient Civil Registration and Census Services ³³⁴	✓ % of civil registration and census application/requests processed within the same day.	Ministry of Home and Cultural Affairs	
	16.10 Ensure public access to information and protect fundamental freedoms, in accordance with national legislation and international agreements	Good Governance	Bhutan Civil Registration System (BCRS) Database made fully web based application (Online system) ³³⁵	✓ No. of DCRC services provided effectively and efficiently through online system ✓ % of 3rd Generation (3G) Citizenship Identity Card issued to eligible Bhutanese citizen who had applied. ✓ % of Special Residence Permit (SRP) cards issued to eligible persons who had applied.	Ministry of Home and Cultural Affairs	
Partner ship	Goal 17. Strengthen the means of implementation and revitalize the global partnership for sustainable development					
	<u>Finance</u> 17.1 Strengthen domestic resource mobilization, including through international support to developing countries, to improve domestic capacity for tax and other revenue collection					
	<u>Finance</u> 17.2 Developed countries to implement fully their official development					

assistance commitments, including the commitment by many developed countries to achieve the target of 0.7 per cent of ODA/GNI to developing countries and 0.15 to 0.20 per cent of ODA/GNI to least developed countries; ODA providers are encouraged to consider setting a target to provide at least 0.20 per cent of ODA/GNI to least developed countries					
<u>Finance</u> 17.3 Mobilize additional financial resources for developing countries from multiple sources					
<u>Finance</u> 17.4 Assist developing countries in attaining long-term debt sustainability through coordinated policies aimed at fostering debt financing, debt relief and debt restructuring, as appropriate, and address the external debt of highly indebted poor countries to reduce debt distress					
<u>Finance</u> 17.5 Adopt and implement investment promotion regimes for least developed countries					
<u>Technology</u> 17.6 Enhance North-South, South-South and triangular regional and international cooperation on and access to science, technology and					

	innovation and enhance knowledge sharing on mutually agreed terms, including through improved coordination among existing mechanisms, in particular at the United Nations level, and through a global technology facilitation mechanism					
	<u>Technology</u> 17.7 Promote the development, transfer, dissemination and diffusion of environmentally sound technologies to developing countries on favourable terms, including on concessional and preferential terms, as mutually agreed					
	<u>Technology</u> 17.8 Fully operationalize the technology bank and science, technology and innovation capacity-building mechanism for least developed countries by 2017 and enhance the use of enabling technology, in particular information and communications technology					
	<u>Capacity-building</u> 17.9 Enhance international support for implementing effective and targeted capacity-building in developing countries to support national plans to implement all the sustainable development goals, including through					

North-South, South-South and triangular cooperation						
<u>Trade</u> 17.10 Promote a universal, rules-based, open, non-discriminatory and equitable multilateral trading system under the World Trade Organization, including through the conclusion of negotiations under its Doha Development Agenda						
<u>Trade</u> 17.11 Significantly increase the exports of developing countries, in particular with a view to doubling the least developed countries' share of global exports by 2020	Trade	Export enhanced ³³⁶ Export Promoted ³³⁷ Capacity and understanding on trade mainstreaming enhanced ³³⁸ Legal and institutional framework developed ³³⁹ Market Modernization ³⁴⁰ Ease of doing business improved ³⁴¹	✓ Annual value of exports ✓ Export products (Nos) ✓ New export market (Nos) ✓ Exporters (Nos) ✓ Functional dry ports (Nos) ✓ Projects implemented under EIF (Nos) ✓ Competition Law/Policy and Trade Development Act in place (Nos) ✓ Awareness programs on consumer products (Nos) ✓ Skill of women entrepreneur (Nos) ✓ Trading firms (Nos) ✓ Wholesale centers in the border towns (Nos) ✓ Trade services automated (Nos) ✓ Simplified trade rules and procedures in place (Nos)	Ministry of Economic Affairs		
<u>Trade</u> 17.12 Realize timely implementation of duty-free and quota-free market	Trade	Improved market access ³⁴²	✓ Bilateral, regional and multilateral agreements negotiated/renewed and concluded (Nos)	Ministry of Economic Affairs		

<p>access on a lasting basis for all least developed countries, consistent with World Trade Organization decisions, including by ensuring that preferential rules of origin applicable to imports from least developed countries are transparent and simple, and contribute to facilitating market access</p> <p>Systemic issues</p> <p>Policy and institutional coherence</p> <p><u>Policy and institutional coherence</u></p> <p>17.13 Enhance global macroeconomic stability, including through policy coordination and policy coherence</p>					
<p><u>Policy and institutional coherence</u></p> <p>17.14 Enhance policy coherence for sustainable development</p>					
<p><u>Policy and institutional coherence</u></p> <p>17.15 Respect each country's policy space and leadership to establish and implement policies for poverty eradication and sustainable development</p>					
<p><u>Multi-stakeholder partnership</u></p> <p>17.16 Enhance the global partnership for sustainable development, complemented by multi-stakeholder partnerships that mobilize and share knowledge, expertise,</p>					

technology and financial resources, to support the achievement of the sustainable development goals in all countries, in particular developing countries					
<u>Multi-stakeholder partnership</u> 17.17 Encourage and promote effective public, public-private and civil society partnerships, building on the experience and resourcing strategies of partnerships					
<u>Data, monitoring and accountability</u> 17.18 By 2020, enhance capacity-building support to developing countries, including for least developed countries and small island developing States, to increase significantly the availability of high-quality, timely and reliable data disaggregated by income, gender, age, race, ethnicity, migratory status, disability, geographic location and other characteristics relevant in national contexts					
<u>Data, monitoring and accountability</u> 17.19 By 2030, build on existing initiatives to develop measurements of progress on sustainable development that					

	complement gross domestic product, and support statistical capacity-building in developing countries					
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