

SDG Implementation Action Plan for Power Division upto 2030

SDG Action Plan through National Mid -Term and Long-Term Development Plans (Draft)

SDG Targets	Global Indicators for SDG Targets	Lead/Co-Lead Ministries /Divisions	Associate Ministries / Division	7th FYP Goals/Targets related to SDG Targets and Indicators	On-going Project/Programme to achieve 7th FYP Goals/Targets up to 2020		Requirement of New Project/Programme up to 2020		Actions/Projects beyond 7th FYP Period (2021-2030)	Policy/Strategy if needed (in)	Remarks			
					Project Title and Period	Estimated Cost in BDT (million)	Project Title and Period	Estimated Cost in BDT (million)						
1	2	3	4	5	6.1	6	7.1	7.2	8	9	10			
7.1 By 2030, ensure universal access to affordable, reliable and modern energy services	7.1.1 Proportion of population with access to electricity	PD	EMRD; MoST;	<ul style="list-style-type: none"> Government's target to ensure electricity reaches every household by FY2021. Power generation capacity targets of 23,000 MW by FY2020 (end of Seventh Plan); 24,000 MW by 2021; and 40,000 MW by 2030. Projected share of coal based power from only 3 percent (FY2015) to 21 percent by the end of the Seventh Plan and subsequently to 50 percent by FY2030 	Generation Public Sector (Under Construction)		Generation Public Sector (Under Planning)		Generation Public Sector (Under Construction)					
					1	Siddhirganj 335 MW CCPP [EGCB]; Oct 2017	41,120	1	Satkhira 25 MW PP [BPDB]; Dec 2019	2,200	1	Rampal 1320 MW Coal based PP [BIFPCL]; Mar 2021		
					2	Shikalbaha 225 MW CCPP (Dual Fuel) [BPDB]; Oct 2017	20,480	2	Syedpur 150 MW PP [BPDB]; Jan 2020	12,551	Generation Private Sector (Under Construction)			
					3	Bheramara 414 MW CCPP [NWPGL]; Jun 2017	41,920	3	Mirshorai, Chittagong 150 MW PP [BPDB-RPCL]; Jun 2020	13,680	1	Maowa, Munsiganj 522 MW Coal based PP Project [IPP]; Jun 2021		
					4	Ashuganj (North) CCPP, 381 MW [APSCL]; Jun 2017	34,400	4	Mymensingh 225 MW CCPP [RPCL]; Jun 2020	20,520	2	Dhaka 635 MW Coal based Project (Orion Group) [IPP]; Dec 2021		
					5	Chapainabagaj 104 MW PP [BPDB]; Jun 2017	11,280	5	Barisal 225 MW CCPP (D/F) [BPDB]; Dec 2020	20,520	Generation Public Sector (Under Tender Process)			
					6	Ghorashal 365 MW CCPP: SC GT Unit [BPDB]; Dec 2017	25,440				1	Ashuganj 400 MW CCPP (East) [APSCL]; Jan 2021		
					7	Bibiyana South 383 MW CCPP [BPDB]; Dec 2018	25,440				2	Matarbari 1200 MW USCPL [CPGCL]; Dec 2023		
					8	Sirajganj 225 MW CCPP (Unit-2) [NWPGL]; Jun 2018	20,480				3	Ruppur 1200 MW Nuclear Power Plant (Unit-1) [MoST]; Dec 2025		
					9	Sirajganj 225 MW CCPP (Unit-3) [NWPGL]; Dec 2018	20,480				4	Ruppur 1200 MW Nuclear Power Plant (Unit-2) [MoST];		
					10	Barapukuria 275 MW (Unit-3) [BPDB]; Jun 2018	27,200				Generation Private Sector (Under Tender Process)			
					11	Bibiyana 400 MW CCPP (Unit-3)	34,000				1	Barisal Coal Based 307 MW PP [IPP]; Dec		
					12	Khulna 330 MW D/F PP [BPDB]; Oct 2019	32,538							
					13	Ghorashal Unit-4 Re-powering [BPDB]; May 2019	20,800							
					14	Ghorashal Unit-3 Re-powering [BPDB]; Jun 2019	20,800							
15	Payra, Patuakhali 1320 MW Coal fired PP [BCPCL (NWPGL)]; Dec 2019	124,880												

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				<ul style="list-style-type: none"> • Expansion/up-gradation of 1,50,000 (km) electric distribution line • Construction/Up-gradation of 480 sub-station • New 70,00,000 consumer connection • 30,000 Village electrification • 40 Switching station construction • 40 (Set) River crossing tower construction • Replacement of 1,90,000 Overloaded Distribution transformer • Replacement of 75,00,000 electromechanical/digital meter by pre-paid meter 	Generation Private Sector (Under Construction)		Generation Private Sector (Under Planning)		Public Sector (Under Planning)			
					1	Kamolaghat, Munshiganj 50 MW Power Plant [IPP]; Jul 2017	4,400	1	Gazipur 150 MW (Summit) [IPP]; Dec 2018	13,200	1	Baghabari 100 MW PP Conversion [BPDB]; Jun 2021
					2	Kushiara 163 MW CCPP [IPP]; Jul 2017	11,280	2	LNG based 750 MW CCPP (Reliance) [IPP]; Jan 2020	42,000	2	Shajibazar 70 MW PP Conversion [BPDB]; Jun 2021
					3	Julda, Chittagong 100 MW, Unit-2 (Accorn Infrastructures Services Ltd.) [IPP]; Mar 2019	8,800	3	Chittagong 612 MW Coal Fired Power Projects (S.Alam Group)-1 [IPP]; Jun 2020	96,000	3	LNG based 800 MW CCPP [NWPGL]; Jun 2022
					4	Sirajganj 414 MW CCPP [IPP]; May 2019	32,960	4	Chittagong 612 MW Coal Fired Power Projects (S.Alam Group)-2 [IPP]; Jun 2020	96,000	4	Mymensingh 100 MW PP [BPDB]; Jun 2022
					5	Anowara, Chittagong 300 MW PP (United Enterprise) [IPP]; Mar 2019	26,400	5	LNG based 500 MW CCPP (Summit Group) (Meghnaghat) [IPP]; Dec 2020	28,000	5	Raozan 300-450 MW CCPP [BPDB]; Jun 2022
					6	Gabtoli 108 MW PP [IPP]; Mar 2019	9,504				6	Bheramara 225 MW CCPP (D/F) [BPDB]; Jun 2022
					Generation Public Sector (Under Tender Process)						7	Ghorashal 6th Unit Repowering (capacity Addition) [BPDB]; Jun 2022
					1	Shajibazar 100 MW Power Plant [BPDB]; Jan 2019	7,200				8	Matarbari 700 MW USCPP [JV of Symcorp & CPGCL]; Dec 2022
					2	Sylhet 150 MW PP Conversion [BPDB]; Jun 2019	6,000				9	Payra, Potuakhali 1320 MW Coal fired PP (2nd Phase) [BPCL(NWPGL)]; Dec 2023
					Generation Private Sector (Under Tender Process)						10	Moheshkhali 1200 MW USCPP (ECA) [BPDB]; Dec 2024
					1	Chandpur 100 MW Power Plant [IPP]; Dec 2018	8,800				11	LNG based 750 MW CCPP at Moheshkhali [BPDB]; Dec 2025
					2	Chowmuhoni, Noakhali 100 MW Power Plant [IPP]; Dec 2018	8,800				12	Pakua 1320 MW USCPP [EGCB]; 2026
					3	Feni 100 MW Power Plant [IPP]; Dec 2018	8,800				13	Moheshkhali 1200 MW USCPP [JV of BPDB & CHDHK, China]; 2026
					4	Meghnaghat 100 MW PP [IPP]; Dec 2018	8,800				14	Moheshkhali 1200 MW USCPP [JV of BPDB & TNB, Malaysia]; 2027

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PGCB Transmission Projects													
					1	Bibiyana-Kaliakoir 400 kV and Fenchuganj-Bibiyana 230 kV Transmission Line (NG2) Period: 01-07-2010 to 30-06-2017	20,106	1	Patuakhali – Gopalganj 400 kV Line & Gopalganj 400 kV Super Grid Sub-Station Project Period: 01-07-2017 to 31-12-2019	32,942	1	Expansion and Strengthening of Power System Network in DESCO & its Adjacent Area (Phase-1) Cost: 41318.50 million BDT	Present Electricity Act needs to be revised because the amount of compensation (payable under the existing Electricity Act) to the affected people during transmission line construction is not adequate/ commensurate to the existing market value, which
					2	National Power Transmission Network Development Project Period: 01-01-2013 to 30-06-2019	24,266	2	Construction of Bakerganj-Barguna Transmission Line and Barguna 132/33 kV Substation Period: 01-07-2017 to 31-12-2019	1,432	2	Infrastructure Development for Power Evacuation facilities of Ruppur Nuclear Power Plant Cost:112332.80 millionBDT	
					3	132 kV Grid Network Development Project in Eastern Region Period: 01-01-2013 to 30-06-2018	9,868	3	Bheramara (Bangladesh)-Baharampur (India) Second 400kV Interconnection Line (Bangladesh Part) Period: 01-07-2017 to 31-12-2018	1,877	3	Madunaghat - Moheskhal 765kV Transmission line Cost: 26766.860 million BDT	
					4	400/230/132 Network Development project Period: 01-07-2013 to 30-06-2019	32,271	4	Bangladesh Power System Reliability and Efficiency Improvement Project Period: 01-07-2017 to 30-06-2021	5,821	4	Grid Network Development Project at Southern Area Cost: 32887.984 million BDT	
					5	Enhancement of Capacity of Grid Substations and Transmission Line (Phase-I) Period: 01-07-2014 to 31-12-2017	13,327	5	Expansion and Strengthening of Power System Network Under DPDC Area Period: 01-01-2018 to 30-06-2023	100,360	5	Bogra-Rahanpur 400 kV Transmission Line Project	
					6	Ashuganj-Bhulta 400 kV Transmission line Period: 01-07-2014 to 30-06-2018	8,537	6	Enhancement & Strengthening of Power Network in Eastern Region Period: 01-01-2018 to 31-12-2021	34,020	6	Bornagar-Parbitipur-Katihari 765kV Bangladesh -India Grid Interconnection Project (Bangladesh Part) Cost: 32583.7 Million BDT	
										7	Madunaghat-Bhulta 765 kV Transmission Line Project		

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1	2	3	4	5	6.1	6	7.1	7.2	8	9	10
					7 Capacity Upgradation (500MW) of Existing Bheramara HVDC Station Project Period: 01-01-2015 to 31-12-2018	18,548	7 Baropukuria-Bogra-Kaliakoir 400 kV Transmission Line Project (NG-5) Period: 01-07-2017 to 31-12-2020	28,572	Cost: 55002.00 million BDT	involves enormous public chaos during transmission line construction.	
					8 Western Grid Network Development Project Period: 01-01-2016 to 30-06-2019	14,239	8 Expansion and Strengthening of Power System Network Under Chittagong Area Period: 01-01-2018 to 30-06-2021	22,362	8 Development of Transmission Infrastructure in Cox's Bazar Area		
					9 Dhaka-Chittagong Main Power Grid Strengthening Project Period: 01-07-2016 to 31-12-2020	45,675	9 230 & 132 kV Transmission Network Development Project in Western Zone Period: 01-01-2018 to 31-12-2021	11,860			
					10 Aminbazar-Maowa - Mongla 400 kV Transmission line Period: 01-07-2016 to 30-06-2020	13,566	10 Banshkhali-Madunaghat 400kV Transmission Line Project Period: 01-01-2018 to 31-06-2020	7,723			
					11 Energy Efficiency in Grid Based Power Supply Project Period: 01-01-2017 to 30-06-2021	29,824	11 Grid Connection Development Project for Mirsarai Economic Zone Period: 01-10-2017 to 31-12-2019	3,500			
					12 Power Grid Network Strengthening Project under PGCB Period: 01-10-2016 to 30-06-2021	137,033	12 HVDC Back-to-Back Station at Comilla for 500 MW Import from Tripura (India) Period: 01-01-2018 to 31-12-2019	18,779			
					13 Matarbari Ultra Super Critical Coal-Fired Power Project (II) (PGCB Part: "Matarbari-Madunaghat 400 kV Transmission Line") Period: 01-07-2017 to 31-12-2020	10,908					
					14 Patuakhali-Payra 230 kV Transmission Line Project Period: 01-01-2017 to 30-06-2019	3,360					

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					BPDB Distribution Projects								
					1	Power Distribution System Development Project, Comilla Zone, (June 2017)	11,681	1	Pre-Payment Metering Project for BPDB's Six Distribution Zones (June 2019)	15,199	1	Power Distribution System Development Project, Mymensingh Zone, (12577.00 Million BDT) (June 2021)	
					2	Greater Chittagong Power Distribution Project- SCADA Rehabilitation (Phase-II), (July 2017)	2,643	2	Power Distribution System Development Project of Bangladesh in Three Hilly Areas (Dec 2019)	5,657	2	Construction of 33 kV Underground Cable at Chittagong zone (156800 Million BDT) (June 2021)	
					3	Pre-paid Metering Project for Distribution Southern Zone Chittagong (phase-I), (Dec 2017)	1,374	3	Power Distribution System Development Project, Rangpur Zone (Dec 2019)	13,343	3	Power Distribution System Development Project, Comilla Zone (15468 Million BDT) (June 2021)	
					4	Solar Street Lighting in City Corporation (Dec 2017)	2,226	4	Power Distribution System Development Project, Sylhet Zone (Mar 2019)	18,908			
					5	Pre-paid Metering Project for Distribution Comilla and Mymensingh Zone (Dec 2017)	1,324						
					6	Power Distribution System Development Project, Chittagong Zone (June 2018)	10,997						
					7	Power Distribution System Development Project, Rajshahi Zone (June 2018)	9,150						
					BREB Distribution Projects								
					1	Rural Electrification Up-gradation Project (Rajshahi, Rangpur, Khulna & Barisal Division) (01/07/2010 to 30/06/2017)	13,998	1	Distribution Network Expansion for 100% Rural Electrification (Dhaka & Mymensingh, Chittagong & Sylhet Divisions) (01/01/2017 to 31/12/2019)	73,626	1	Rural Electrification Up-gradation Project (Rajshahi, Rangpur, Khulna & Barisal Division) (Phase-2)	
					2	1.8 Million Consumer Connection through Rural Electrification Expansion (01/01/2012 to 30/06/2017)	64,260	2	Distribution Network Expansion for 100% Rural Electrification (Rajshahi, Rangpur, Khulna & Barisal Divisions) (01/01/2017 to 31/12/2019)	69,925	2	Replacement of Overloaded Distribution Transformer Providing Reliable Electricity under Rural Electrification Program	

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					3	Rural Electrification Expansion Rajshahi -Rangpur Division program-II (01/07/2014 to 30/06/2018)	13,852	3	Solar Photovoltaic Pumping for Agricultural Irrigation (01/01/2017 to 31/12/2019)	3,693	3	System loss reduction by replacing 5 Million Electro-mechanical Energy meter with Electronic Energy Meter	
					4	Rural Electrification Expansion Chittagong - Sylhet Division program-II (01/07/2014 to 30/06/2018)	16,873	4	Translating Electricity Supply into Improvements of Rural Households (01/06/2017 to 30/06/2019)	229	4	5000 Nos. Solar Irrigation Pump installation Project.	
					5	Up-gradation of Rural Electricity Distribution System (Dhaka, Chittagong & Sylhet Division) (01/07/2014 to 30/06/2018)	51,983	5	Distribution Network Expansion for Electrical Connection in Economic Zone of Bangladesh (01/07/2017 to 30/06/2020)	4,019	5	Up gradation of 33/11 kV Substation with Bay-Breaker at Respective Project for Rural Electrification Program	
					6	Rural Electrification Expansion Dhaka Division program-II (01/07/2014 to 30/06/2018)	16,454				6	Modernization of BREB (Dhaka & Mymensingh, Division) Distribution System by Introducing Central SCADA, Smart Grid & Pre-Payment e-Metering System (Phase-1)	
					7	Rural Electrification Expansion Khulna Division program-II (01/07/2014 to 30/06/2018)	9,955				7	Capacity Development Project for Rural Electrification Program	
					8	Rural Electrification Expansion Barisal Division program-II (01/07/2014 to 30/06/2018)	8,389				8	Establishment of Lab Facility for Material and Equipment Testing	
					9	Technical Assistance Project for Institutional Strengthening of Rural Electrification Program (01/07/2015 to 30/06/2019)	579				9	Conversion of Overhead Distribution Systems into Underground Electric Distribution Network	
					10	Pre-payment e-metering in Dhaka Division under Rural Electrification Program (Phase-I) (01/07/2015 to 30/06/2018)	4,365				10	Distribution Network Expansion for Electrical Connection in Economic Zone of Bangladesh	
					11	1.5 Million Consumer Connection through Rural Electrification Expansion (01/01/2016 to 31/12/2018)	69,154						

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1	2	3	4	5	6.1	6	7.1	7.2	8	9	10	
					12	Replacement of 70,000 nos. Overloaded Distribution Transformer under Rural Electrification Program (01/01/2016 to 31/12/2017)	7,999					
					13	Rural Electrification Expansion Program in Sylhet Division & Infrastructure Development of BREB Headquarters (01/01/2016 to 31/12/2018)	14,171					
					14	2.5 Million Consumer Connection through Rural Electrification Expansion (01/07/2016 to 30/06/2018)	12,283					
					15	Up-gradation Rehabilitation and Intensification of Distribution System (Dhaka, Mymensingh, Chittagong & Sylhet Division) (01/07/2016 to 30/06/2019)	34,038					
					16	Up-gradation Rehabilitation and Intensification of Distribution System (Rajshahi, Rangpur, Khulna & Barisal Division) (01/07/2016 to 30/06/2019)	30,775					
DESCO Distribution Projects												
					1	Augmentation and Rehabilitation of Distribution System in DESCO Area (July 13-June17)	19,892	1	Installation of pre-payment metering System - 650,000 nos.	5,850	1	Construction of 132/33/11 kV underground grid substation at Gulshan in Dhaka
					2	Construction of 132/33/11 KV Grid Substation in DESCO Area (July 13-June17)	9,461	2	Call Center - 01 no.	150	2	Expansion and Strengthening of Electrical Distribution System through Underground Network in DESCO area on Turnkey Basis.
					3	Installation of Supervisory Control and Data Acquisition (SCADA) System in DESCO areas (Jan 16-June19)	1,522					
					4	Installation, Up-gradation and Conversion of Existing 33kV Overhead Lines into Underground cables in DESCO areas. (July 16-June19)	5,688					

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1	2	3	4	5	6.1	6	7.1	7.2	8	9	10		
					5	Augmentation and Rehabilitation of 132/33/11 KV Grid Substations at Uttara and Bashundhara (July 16-Jun19)	2,514						
					6	Installation of 4,00,000 nos. pre payment meter. (July 16-June19)	3,040						
					7	Installation of Solar Charging Station in DESCO area	6						
					DPDC Distribution Projects								
					1	Construction of new 132/33 kV & 33/11 kV sub-station under DPDC. (July 2013-June 2018)	18,507	1	Expansion & Strengthening of Power System Network under DPDC Area (Jan'2017 - Dec'2021)	205,015	1	Replacement of Existing Overhead Distribution System By Underground Distribution System Under DPDC Area	
					2	Construction & Expansion of Distribution Network of North & South Zone under DPDC (July 2013-June 2018)	5,106	2	Dhaka Underground Substation Construction Project under DPDC (July' 2020-Sept'-2023)	11,316	2	Conversion of existing substations to underground substations under DPDC area	
					3	Construction of 11 kV Switching Station at Bangabhaban, Ganabhaban & Prime Minister's Office (Revised) (July 2014-June 2018)	308	3	Pre-payment Metering project for DPDC area	3,500	3	RRA of 132/33 kV & 33/11 kV sub-station under DPDC.	
					4	Pre-payment Metering Project for 6 NOCS Division under DPDC (Jul 2015-Dec 2017)	1,734	4	Consultancy Services for GIS (Geographical Information System) Based Distribution Network System and Preparation of a 20 Years Master Plan for DPDC (Feb' 2017-Feb' 2019)	385	4	Pre-payment Metering project for DPDC area.	
					5	Pre-payment Metering Project for 5 NOCS Division under DPDC (Jan' 2015-June 2018)	2,244				5	Installation of LED light on 55 nos. 132/33kv and 33/11kv substations under DPDC.	
					6	Implementation of 750 kWp grid tied roof top solar power project on BOO (build own operate) basis in 03 (three) lot at 44 no. DPDCown installation located at different NOCS zone under DPDC.	70						

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1	2	3	4	5	6.1	6	7.1	7.2	8	9	10	
					7	Implementation of 250 kWp grid tied roof top solar power project on BOO basis at Khadya bhaban, Shikkha bhaban, department of women & children affairs bhaban and shilpokola academy bhaban under DPDC.	23					
WZPDCL Distribution Projects												
					1	Pre-payment Metering project for Khulna city Phase-1 (July'2014 - Dec'2017)	421	1	Extension & Augmentation of Power Distribution System Project in West Zone Area. Period: July'17 – June'21	14,239	1	Distribution System Improvement Project up to '2030 (Phase-1) [Period: July'21 – June'25]
					2	Strengthening Power Distribution System project (July'14 – June'18)	421	2	Pre-payment Metering project for West Zone Area. Period: July'17 – June'21	13,820	2	Distribution System Improvement Project up to '2030 (Phase-2) [Period: July'26 – June'30]
					3	Expansion and Upgradation of Power Distribution System in West Zone Area (July'16 – June'19)	12,782	3	Assessment on System Planning, Project Design and Capacity Building in West Zone Area. Period: Jan'17-Dec'17	87		
								4	Sub-station Rehabilitation and Implementation of Supervisory Control and Data Acquisition (SCADA) System Project in West Zone Area. Period: Jul'17 – Jun'21	8,690		
								5	Upgradation of Power Distribution System Project in West Zone Area. Period: July'17 – June'21	9,334		

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1	2	3	4	5	6.1	6	7.1	7.2	8	9	10
							6	0			
							Underground Power Distribution System Project in West Zone Area (Phase-1). Period: July'17 – June'21				
							7	0			
							Prepayment Meter Manufacturing Plant, WZPDCL Period: July'17 – June'18				
							8	0			
							GIS Mapping of WZPDCL area. Period: July'17- June'19				

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					Project Title and Period	Estimated Cost in BDT (million)	Project Title and Period	Estimated Cost in BDT (million)						
1	2	3	4	5	6.1	6	7.1	7.2	8	9	10			
					6	Solar Mini-grid 12 MW	1,800	6	Solar Home System-44 MW	5,280	6	Madargonj 100MW Solar PV Power Project, Jamalpur	Biomass to energy Regulation	
					7	Solar Irrigation-60 MW	4,800	7	Solar Mini Grid-32 MW	4,800	7	30 MW Solar Park, Panchagarh	Policy for smart Grid and grid integration.	
					8	Solar Roof Top System-8 MW	640	8	Solar Irrigation-162 MW	12,960	8	EE&C Master plan for transport sector	Policy framework for creation of Sustainable Energy Fund	
7.3 By 2030, double the global rate of improvement in energy efficiency	7.3.1 Energy intensity measured in terms of primary energy and GDP.	PD	ERD; MoFA;	<ul style="list-style-type: none"> Energy Efficiency and Conservation Programme Financial Incentive Mechanism for Improved Cooking Stove 	9	Energy Efficiency and Conservation Promotion financing project	1,092.65	9	Solar Roof Top System-10 MW	800	9	Establishment of EE&C Testing lab	Appliance wise Energy Standard Regulation	
					10	LED Street light project (through EESL grant)	Grant	10	Grid tied Solar and Wind power plant from private sector (Total 1200 MW)		10	Enforcement of EE&C standardization and labeling		
					11	MoU sign with EESL, India		11	Development of certified and Designated Energy Auditor	100	11	Development of Green Building Rating system for Bangladesh		

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1	2	3	4	5	6.1	6	7.1	7.2	8	9	10	
							12	Awareness program on EE&C in School, College and University	3,000	12	Establishing a model Green Building and EE&C center (SREDA office Building)Research on EE&C improvement	
							13	Energy Audit in different Government Establishments of Bangladesh	200	13	MoU sign with Sri Lanka Sustainable Energy Authority	
							14	MoU sign with Korea Energy Management Corporation (KEMCO), Korea		14	MoU sign with Nepal Academy of Science and Technology, Nepal	
							15	MoU sign with Bureau of Energy Efficiency (BEE), India		15	MoU sign with Sustainable Energy Development Authority, Malaysia	
7.a	7.a.1 Mobilized amount of United States dollars per year starting in 2020 accountable towards the \$100 billion commitment	Lead: ERD	EMRD; MoEF; MoFA; PD; MoST; Prgm. Div.; BB		Bangladesh Energy & Power Research Council (BEPRC)							
					1	(a) "Sustainable Solar Irrigation, introduce smart grid with remote access and payment gateway" Named project Financial agreement sign on dated: 14.02.2017 with IDCOL & Rahimafrooz	2.80	1	"Capacity Building and Enhancing the Activities of Bangladesh Energy and Power Research Council" named project	15.21		
						(b) "Design and optimization of parabolic reflector type solar cooker for indoor application" Type project will be implemented by BCSIR.	2.40					
						(1) Responsible Energy Conservation (2) Energy Efficiency and Demand Mngement (3) Renewable Energy (4) Conventional Energy (5) Transmission and Distribution - Integration and Infrastructure (6) Energy, Environmental and Socio-economic Impact Analysis						