Power Common Indicators:

A focus on results is one of the core principles on which the Millennium Challenge Corporation (MCC) was founded. Within country-specific plans, MCC uses common indicators to aggregate results across countries within certain sectors. MCAs are not required to report on certain common indicators where collecting that data is too costly or infeasible given existing data collection plans.

		Process Indicators					Output Indicators							Outcome Indicators										
Country	Region	(P-1) Value of signed power infrastructure feasibility and design contracts	(P-2) Percent disbursed of power infrastructure feasibility and design contracts	(P-3) Value of signed power infrastructure construction contracts	(P-4) Percent disbursed of power infrastructure construction contracts	(P-5) Temporary employment generated in power infrastructure construction	(P-6) Generation capacity added	(P-7 and P-10) Km lines upgraded or built	(P-8) Transmission throughput capacity added	(P-9 and P-11) Substation capacity added	(P-12) Customers added by project	(P-13) Maintenance expenditure-asset value ratio	(P-14) Cost-reflective tariff regime	(P-15) Total electricity supply	(P-16) Power plant availability	(P-17) Installed generation capacity	(P-18) Transmission system technical losses (%)	(P-19) Distribution system losses	(P-20) Commercial losses	(P-21) System Average Interruption Duration Index (SAIDI)	(P-22) System Average Interruption Frequency Index (SAIFI)	(P-23) Total electricity sold	(P-24) Operating cost-recovery ratio	(P-25) Percentage of households connected to the national grid	(P-26) Share of renewable energy in the country
MCC Total		72,786,317	45.4%	490,790,289	75.1%	15,455	66	4,318	NA	84	35,412	NA	NA	6,842,288	NA	6,115	NA	NA	NA	NA	NA	2,559,631	NA	NA	NA
EAPLA Total		-	0.0%	0	0.0%	-	-	1,523	NA	-	35,412	NA	NA	0	NA	0	NA	NA	NA	NA	NA	0	NA	NA	NA
AFRICA total		72,786,317	45.4%	490,790,289	75.1%	15,455	66	2,796	NA	84	-	NA	NA	6,842,288	NA	6,115	NA	NA	NA	NA	NA	2,559,631	NA	NA	NA
El Salvador	**EAPLA**	-	-	-	-	-	-	1,523	-	-	35,412	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mongolia		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benin II	**AFRICA**	20,151,406	9%	-	-	-	-	-	-	-	-	-	-	1,218,508	-	-	-	-	-	-	-	-	-	-	-
Ghana		-	-	-	-	-	-	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ghana II		18,273,122	7.9%	-	-	-	-	-	-	-	-	1	-	3,689,491	78.1	4,659	-	25.46,25.7****	11	15.34; 26.50****	16.30; 30.00****	694,000	60	-	-
Liberia* **		-	-	120,907,287	100.0%	-	66	24	-	84	-	-	-	133,443	56	141.0	-	-	-	42	49	84,538	-	6	47
Malawi***		18,614,365	78.0%	216,330,449	54.0%	11,382	-	-	-	-	-	4.47	-	1,800,846	77	365	4.9	12.7	-	-	-	1,455,324	144.95	-	100
Tanzania		15,747,424	108.6%	153,552,553	85.3%	4,073	-	2,673	-	-	-	-	-	-	-	949	-	-	-	-	-	325,769	-	-	-
T&D																									
Transmission								24	-	-	-	-	-	-	-	-	-	-	-	-	-				
Distribution								4,294	-	-	-	-	-	-	-	-	-	-	-	-	-				
Gender*																									
Female						1,255																			
Male						10,127																			
Grid																									
On-grid							66									5,165									
Off-grid							-									-									
Tariff class																									
Residential											-											1,217,847			
Commercial											-											287,006			
Industrial											-											696,578			

All program data are as of March 10, 2018. Data are preliminary and subject to adjustment. Grey shading indicates closed-out Compacts; data revision is not expected for these Compacts.

*Gender totals may not match overall totals due to lack of gender counting in earlier compacts.

** This is a monitoring indicator and cannot be attributed solely to MCC investment.

*** Not all common indicator data for Liberia was included for this quarter as the data is still being verified.

****In Ghana II there are two utilities who report different number for Distribution System Losses, SAIDI, and SAIFI. P-19 -ECG: 25.46, NEDCo: 25.7 P-21 - ECG: 15.34, NEDCo: 26.5 P-22 - ECG: 16.3, NEDCo: 30

*****In Malawi P-4.1 and P-5 both decreased this quarter due to a correction of previous data; P-3 also decreased due to a revision in data after a DQR.

Common Indicator Definitions:

(P-1) Value of signed power infrastructure feasibility and design contracts: The value of all signed feasibility, design, and environmental impact assessment contracts, including resettlement action plans, for power infrastructure investments using 609(g) and compact funds.

(P-2) Percent disbursed of power infrastructure feasibility and design contracts: The total amount of all signed feasibility, design, and environmental impact assessment contracts, including resettlement action plans, for power infrastructure disbursed divided by the total current value of signed contracts.

(P-3) Value of signed power infrastructure construction contracts: The value of all signed construction contracts for power infrastructure investments using compact funds.

(P-4) Percent disbursed of power infrastructure construction contracts: The total amount of all signed construction contracts for power infrastructure investments disbursed divided by the total current value of all signed contracts.

(P-5) Temporary employment generated in power infrastructure construction: The number of people temporarily employed or contracted by MCA-contracted construction companies to work on construction of new power infrastructure or reconstruction, rehabilitation, or upgrading of existing power infrastructure.

(P-6) Generation capacity added: Generation capacity added, measured in megawatts, resulting from construction of new generating capacity or reconstruction, rehabilitation, or upgrading of existing generating capacity funded with MCC support.

(P-7) Kilometers of transmission lines upgraded or built: The sum of linear kilometers of new, reconstructed, rehabilitated, or upgraded transmission lines that have been energized, tested and commissioned with MCC support.

(P-8) Transmission throughput capacity added: The increase in throughput capacity, measured in megawatts, added by new, reconstructed, rehabilitated, or upgraded transmission lines that have been energized, tested and commissioned with MCC support.

(P-9) Transmission substation capacity added: The total added transmission substation capacity, measured in mega volt-amperes, that is energized, commissioned and accompanied by a test report and supervising engineer's certification resulting from new construction or refurbishment of existing substations that is due to MCC support.

(P-10) Kilometers of distribution lines upgraded or built: The sum of linear kilometers of new, reconstructed, rehabilitated, or upgraded distribution lines that have been energized, tested and commissioned with MCC support.

(P-11) Distribution substation capacity added: The total added substation capacity, measured in mega volt amperes, that is energized, commissioned and accompanied by a test report and supervising engineer's certification resulting from new construction or refurbishment of existing substations supported by MCC.

(P-12) Customers added by project: The number of new customers that have gained access to a legal connection to electricity service from an electrical utility or service provider as a direct output of an MCC-funded project or intervention.

(P-13) Maintenance expenditure-asset value ratio: Actual maintenance expenditures / Total value of fixed assets

(P-14) Cost-reflective tariff regime: Average Tariff per kilowatt-hour / Long-run marginal cost per kilowatt-hour of electricity supplied to customers.

(P-15) Total electricity supply: Total electricity, in megawatt hours, produced or imported in a year.

(P-16) Power plant availability: Unweighted average across all power plants of the following: total number of hours per month that a plant is able and available to produce electricity / Total number of hours in the same month.

(P-17) Installed generation capacity: Total generation capacity, in megawatts, installed plants can generate within the country.

(P-18) Transmission system technical losses: 1- [Total megawatt hours transmitted out from transmission substations / Total megawatt hours received from generation to transmission substations]

(P-19) Distribution system losses: 1 – [Total megawatt hours billed / Total megawatt hours received from transmission]

(P-20) Commercial losses: Total distribution system losses (P-19) minus distribution technical losses

(P-21) System Average Interruption Duration Index (SAIDI): Sum of durations, in customer-hours, of all customer interruptions in a quarter / Total number of customers connected to network in the same quarter.

(P-22) System Average Interruption Frequency Index (SAIFI): Sum of customer-interruptions in a quarter / Total number of customers connected to network in the same quarter.

(P-23) Total electricity sold: The total megawatt hours of electricity sales to all customer types.

(P-24) Operating cost-recovery ratio: Total revenue collected / Total operating cost. Total operating cost is defined as operating expenses plus depreciation.

(P-25) Percentage of households connected to the national grid: Number of households that have access to a legal connection to electricity service from an electrical utility or service provider / Total number of households in the country.

(P-26) Share of renewable energy in the country: Total installed generation capacity of on- or off-grid renewable energy, in megawatts / Total installed generation capacity (P-17).