

## ANNEX XVI: LIST OF INVESTMENT NEEDS PER TYPE OF TECHNOLOGY AND PER REGION AN COUNTY FOR THE PROPOSED PHASES

### 1 REGION 1 – MARYLAND, RIVER GEE, GRAND GEDEH, SINOE AND GRAND KRU COUNTIES

**Table 1.1 – Investment needs per type of technology in Region 1.**

County	Technology	Phase 1 (MUSD)	Phase 2 (MUSD)	Phase 3 (MUSD)	County Total (MUSD)	Region Total (MUSD)
Maryland	Grid				35.09	150.23
	Transitional Grid					
	Decentralized Grid	9.55	13.13	12.08		
	Micro-Biomass System					
	Micro-Hydro System					
	Off-Grid SHS	0.19	0.10	0.04		
River Gee	Grid				34.45	
	Transitional Grid	1.35	1.06	0.78		
	Decentralized Grid	23.61	2.79	3.65		
	Micro-Biomass System					
	Micro-Hydro System			0.93		
	Off-Grid SHS	0.14	0.09	0.05		
Grand Gedeh	Grid				24.69	
	Transitional Grid	3.43	0.87	1.35		
	Decentralized Grid	1.99	12.07	3.01		
	Micro-Biomass System					
	Micro-Hydro System			1.01		
	Off-Grid SHS	0.47	0.40	0.09		
Sinoe	Grid				27.94	
	Transitional Grid	8.75	1.66	1.12		
	Decentralized Grid			15.16		
	Micro-Biomass System					
	Micro-Hydro System					
	Off-Grid SHS	0.57	0.45	0.23		
Grand Kru	Grid				28.05	
	Transitional Grid	1.38	0.53	0.64		
	Decentralized Grid		23.34	1.29		
	Micro-Biomass System					
	Micro-Hydro System					
	Off-Grid SHS	0.38	0.38	0.11		

## 2 REGION 2 – BONG, LOFA AND NIMBA COUNTIES

**Table 2.1 – Investment needs per type of technology in Region 2.**

County	Technology	Phase 1 (MUSD)	Phase 2 (MUSD)	Phase 3 (MUSD)	County Total (MUSD)	Region Total (MUSD)
Bong	Grid	14.74	30.41	23.33	75.83	270.56
	Transitional Grid	5.54	0.57	0.53		
	Decentralized Grid					
	Micro-Biomass System					
	Micro-Hydro System					
	Off-Grid SHS	0.46	0.13	0.11		
Lofa	Grid				92.57	
	Transitional Grid	2.74	2.87			
	Decentralized Grid	31.69	9.00	42.29		
	Micro-Biomass System	0.13				
	Micro-Hydro System		2.83			
	Off-Grid SHS	0.81	0.14	0.08		
Nimba	Grid	9.33	26.13	57.17	102.16	
	Transitional Grid					
	Decentralized Grid	0.40	5.01	2.77		
	Micro-Biomass System	0.40				
	Micro-Hydro System					
	Off-Grid SHS	0.73	0.15	0.07		

### 3 REGION 3 – MONTSERRADO, GRAND BASSA, RIVERCESS AND MARGIBI COUNTIES

**Table 3.1 – Investment needs per type of technology in Region 3.**

Region	County	Technology	Phase 1 (MUSD)	Phase 2 (MUSD)	Phase 3 (MUSD)	County Total (MUSD)	Region Total (MUSD)
Region 3	Montserrado	Grid	14.21	12.46	7.77	34.70	138.55
		Transitional Grid					
		Decentralized Grid					
		Micro-Biomass System					
		Micro-Hydro System					
		Off-Grid SHS	0.15	0.05	0.05		
	Grand Bassa	Grid	5.35	7.48	16.93	34.93	
		Transitional Grid	3.41	0.40	0.70		
		Decentralized Grid					
		Micro-Biomass System					
		Micro-Hydro System					
		Off-Grid SHS	0.45	0.10	0.11		
	Rivercess	Grid				4.81	
		Transitional Grid	1.17	0.94	0.80		
		Decentralized Grid					
		Micro-Biomass System					
		Micro-Hydro System		1.24			
		Off-Grid SHS	0.42	0.15	0.10		
Margibi	Grid	19.13	24.89	19.42	64.12		
	Transitional Grid						
	Decentralized Grid						
	Micro-Biomass System						
	Micro-Hydro System						
	Off-Grid SHS	0.51	0.09	0.07			

## 4 REGION 3 – MONTERRADO, GRAND BASSA, RIVERCESS AND MARGIBI COUNTIES

**Table 4.1 – Investment needs per type of technology in Region 4.**

Region	County	Technology	Phase 1 (MUSD)	Phase 2 (MUSD)	Phase 3 (MUSD)	County Total (MUSD)	Region Total (MUSD)
Region 4	Bomi	Grid	7.36	8.58	6.74	23.60	51.92
		Transitional Grid		0.41	0.18		
		Decentralized Grid					
		Micro-Biomass System					
		Micro-Hydro System					
		Off-Grid SHS	0.21	0.08	0.05		
	Grand Cape Mount	Grid	5.27	1.45	7.64	16.56	
		Transitional Grid		0.34			
		Decentralized Grid					
		Micro-Biomass System					
		Micro-Hydro System		1.36			
		Off-Grid SHS	0.28	0.17	0.05		
	Gbarpolu	Grid		3.10	0.72	11.76	
		Transitional Grid	1.15	1.76	1.40		
		Decentralized Grid					
		Micro-Biomass System					
		Micro-Hydro System		2.58			
		Off-Grid SHS	0.48	0.38	0.19		