Burundi

National Electrification Rate [1]

National: 9%Urban: 62%Rural: 2%

Population

Total: 11.2 million [2]Urban ratio: 13.0% [2]

Population growth

Medium population growth: 2.9% [2]High population growth: 3.1% [2]

Average household size, urban: 3.5 people [3] Average household size, rural: 4.1 people [3]

Average electricity consumption per

- Household: 400 kWh/year

- Capita: 105 kWh/year (Tier 3) [1], [4]

Low demand target: U3-R1 High demand target: U4-R3

Off-grid technology cost [5]–[9]:

- Expected PV mini-grid cost: ~2950 \$/kWp

- Expected Hydro mini-grid cost: ~3000 \$/kWp
- Expected Wind mini-grid cost: ~3750 \$/kWp
- Expected PV stand-alone (or SHS) costs:
 - \circ ~9620 \$/kWp if kW < 0.02
 - \circ ~8780 \$/kWp if 0.02< kW < 0.05
 - \circ ~6380 \$/kWp if 0.05< kW < 0.1
 - \circ ~4470 \$/kWp if 0.1< kW < 1
 - \circ ~6950 \$/kWp if kW > 1

Grid generating cost

- Expected on-grid cost: 0.033 \$/kWh [10], [11]

T&D costs [12], [13] [14], [15] [8], [16]–[21]:

- HV line (69-132 kV): ~53000 \$/km
- MV line (11-33 kV): ~7000 \$/km
- LV line (0.2 0.4 kV): ~4250 \$/km
- HV to MV substation (1000 kVA): ~25000 \$/unit
- MV to MV substation (400 kVA): ~10000 \$/unit
- Service transformer (50 kVA): ~4250 \$/unit

Grid generation capacity cap per year: ~8 MW/year

Grid connection limit: ~2.5% population/year

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¹ For additional information refer to GEP data & cost assumptions guide.