IFC International Finance Corporation World Bank Group

GSMA Green Power for Mobile

In partnership with the Netherlands

GREEN POWER STRATEGY: GOALS, INITIATIVES AND ROADMAP



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OVERALL NETWORK AND GROWTH PLANS (VS 2011)

	2011	2013	2017
Additional Sites	N/A	36 %	100 %
Network Modernization Progress	N/A	57 %	100 %
Sites Connected to the GRID	94,5%	96,2 %	98 %
Solar Sites	18	18	51

ENERGY AS A CHALLENGE
IN
NETWORK OPERATIONS AND EXPANSION

1. Power availability in the network 99,99%
2. Energy OPEX Control and Reduction
3. Reduce CARBON Footprint

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PAIN-POINTS IN ENERGY PROVISION AND MANAGEMENT

1. Accessibility to the GRID in some Area
2. GRID Power Availability and Cost
3. Generator Maintenance
4. Solar Site Maintenance

GREEN POWER STRATEGY FOR THE NETWORK

Reduce Overall Energy consumption

1. Be less dependent on GRID availability
2. Control the OPEX related to Energy
3. Utilize the opportunity of the country climate
4. Be less dependent on fuel availability and price fluctuation
5. CAPEX savings

Reduce CO2 Emission

1. Avoid population annoyances due to our sites
2. Reduce Generator related OPEX
3. Be the greenest MNO in SENEGAL

GOALS & ROADMAP

	2011	2013	2017
Sites with Shared Power	12	18	124
Indoor Sites	66%	31%	11%
Sites with GE	73%	44%	19%
Sites with Fuel Monitoring (% of GE)	0%	29%	97%
Solar Sites	18	18	51

Initiatives on greening the network

	IMPACTS
Network Modernization	• Reduction of Telecom Equipment Electricity consumption • Reduce the footprint of Telecom Equipment
Migration Indoor to Outdoor	• Reduction of Electricity consumption by removing Split (At least 1/3 of site consumption) • Reduction the footprint by removing shelter
Generator Dismantling	• Reduction of fuel consumption • Reduction of CO2 Emission • Reduction of Noise
Power Sharing on site	• Reduction of fuel consumption • Reduction of CO2 Emission
Deep Cycling Battery Installation	• Reduction of the dependency on Grid availability • Reduction of GE utilization (CO2 Emission and fuel)

Key Achievements (2013)



Approx 30% OPEX per site reduction from 2011

More than 45 % fuel saving every year compare to 2011 consumption





More than 700 000 Kg of CO2e emission reduction (since Q4 2012)

Load on Power source reduce from 90% to 60% on Datacenter and Switch Center



Expectation from Stakeholders to promote green power

- ARTP to put in place a Green Power fund or a Green Power Award
- Government to reduce customs duty and Taxes on green power equipement
- Government and ARTP to promote the infrastructure sharing between MNO

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Merci!
Gracias!
Thank you!
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