Energy Efficiency Global Initiative

Green Power for Mobile

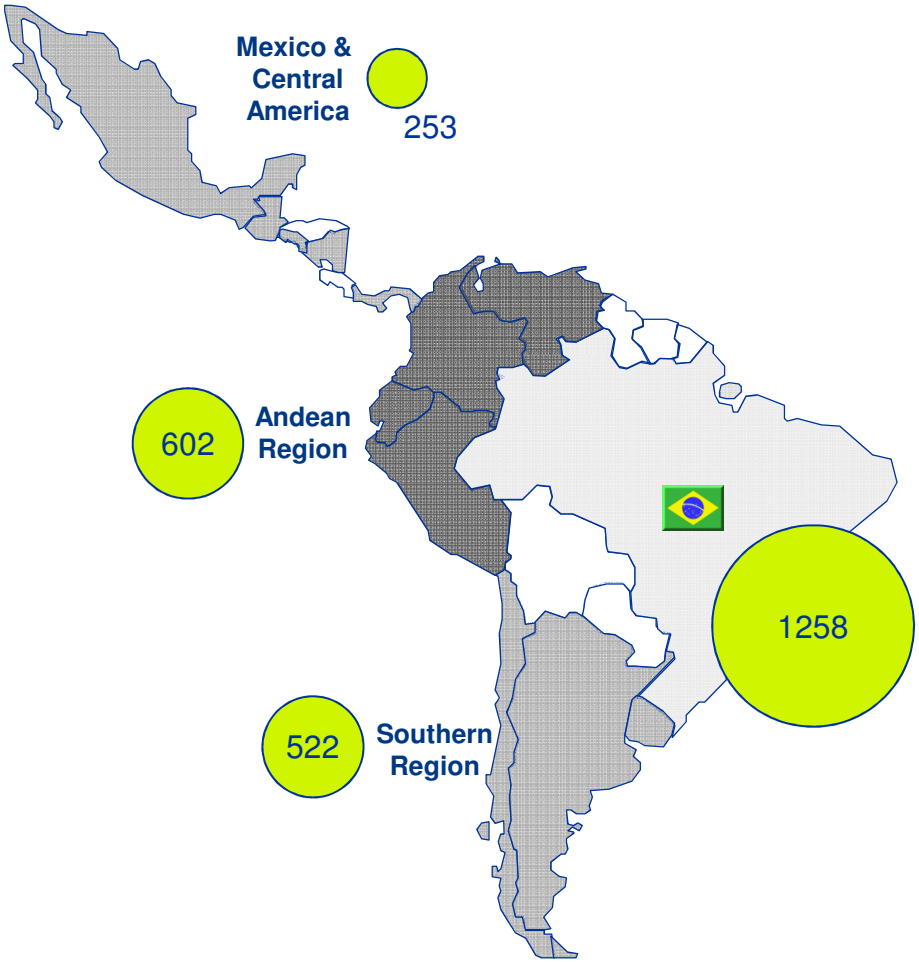
Gabriel.Bonilha@o2.com

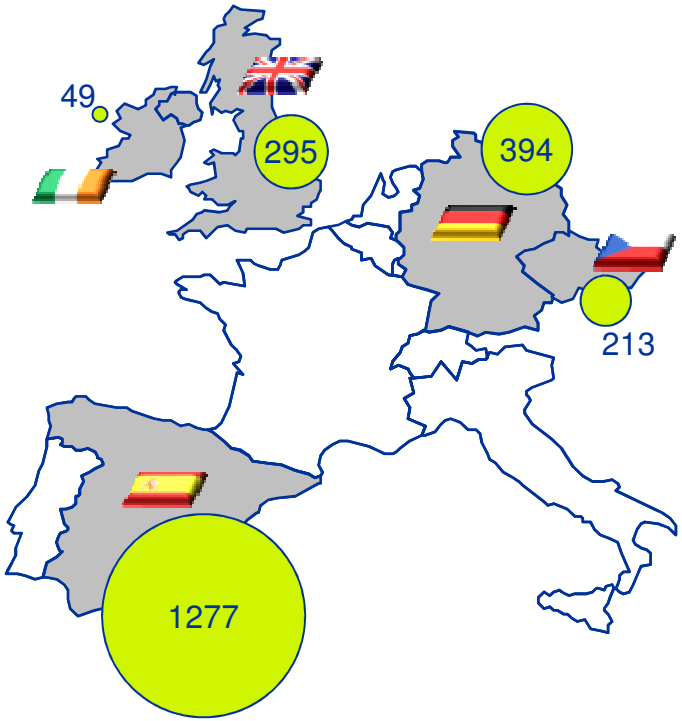
Telefónica SA
March 2010

Dow Jones Sustainability Indexes
Global Supersector Leader 2009-2010



Our Power Consumption in Networks (GWh, 2010 Forecast)...



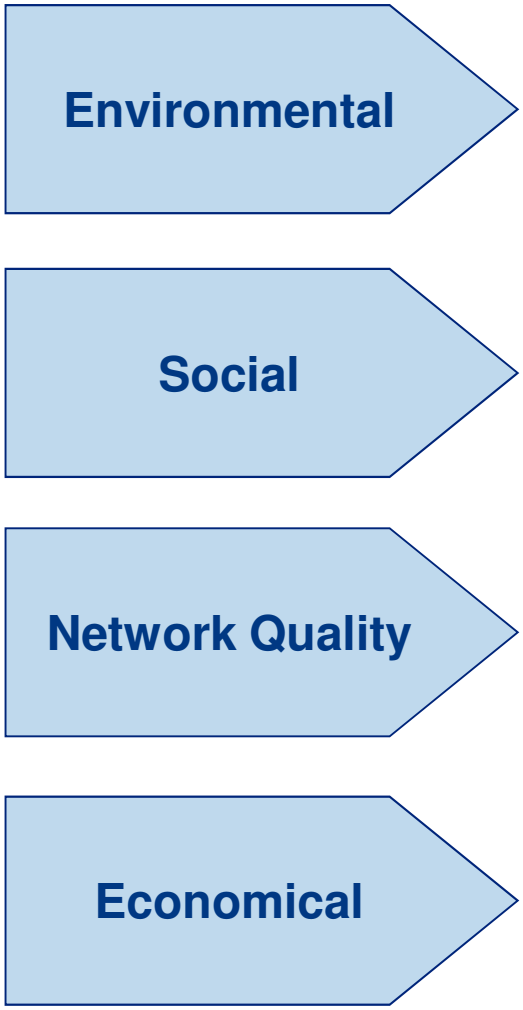


... and our Global Target: Reduce 30% from 2007 to 2015 (kWh/EA).

EA = Equivalent Access, a measure of connections to our networks (Fixed and Mobile Voice, Broadband and TV) weighted by their relative power consumption.

Telefónica

Why are we here today?
Our objectives from 4 perspectives:



Reduce diesel burning and increase renewables application
(CO_2 emissions reduction)
Achieve 20 GWh renewable self-generation by 2015 (1% of 30%)

Improve quality of life in the communities where we operate
Digital inclusion, specially in Latin America

Reduce network interventions (no need to refuel)

Ensure power supply, optimise OPEX

GSMA GPM deployments tracker

www.wirelessintelligence.com/green-power



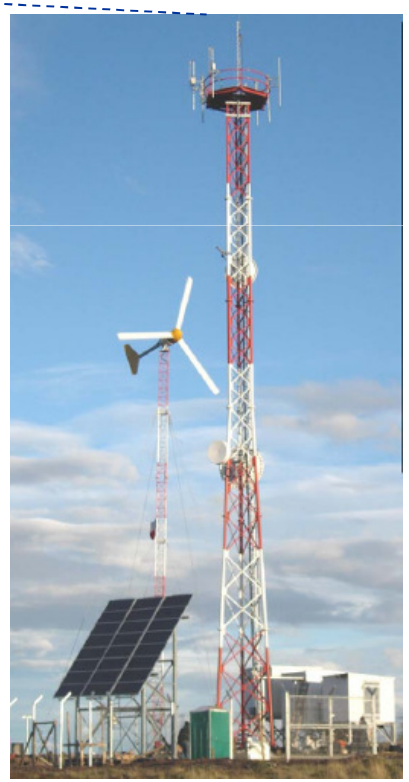
Telefonica in the GSMA GPM deployments tracker

Filters: Operator: Telefonica | Country: All | Technology: All | Download data

Number of renewable base stations

Region	Country	Operator	Renewable	Solar	Wind	Solar-Wind	Generator-Battery	Fuel Cell	Biofuel	Other
			225	197	1	17	0	10	0	0
Americas	Chile	Movistar (Telefonica)	19	16	1	2				
Americas	Ecuador	Movistar (Telefonica)	100	100						
Americas	Mexico	Movistar (Telefonica)	2	2						
Americas	Peru	Movistar (Telefonica)	65	65						
Americas	Venezuela	Movistar (Telefonica)	23	14				9		
Europe: Western	Germany	O2 (Telefonica)	1					1		
Europe: Western	Ireland	O2 (Telefonica)	1			1				
Europe: Western	Spain	Movistar (Telefonica)	14			14				





Chile: Hybrid System in Punta Arenas

Way forward: a structured multi-country project in Latin America with GSMA and IFC support



Scope:	**~100 sites in 5 countries** **existing and new sites** **up to 1.5 kW**
Paybacks:	**< 3 years**
Challenges:	**CAPEX (~€5m)** **Solution industrialisation** **Keep maintenance simple** **Theft mitigation**

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