

Delivering mobile connectivity and reducing carbon

Carbon Reduction Roadmap 2021





Helios Towers team today



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Agenda

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Executive summary

We are proud that by driving the growth of mobile communications, we are improving lives and livelihoods and contributing to economic growth in Africa.

To decouple our business growth – which we believe is paramount to enable connectivity for millions more people – from emissions is a major challenge in our markets. However, we are committed to reducing our carbon footprint, and in this roadmap we share our 2030 carbon target, strategy and ambition for net zero.



Helios Towers at a glance

Helios Towers at a glance

We promote infrastructure sharing by having multiple mobile network operators (MNOs) on tower sites, delivering cost benefits as well as reduced environmental impact.

What we do



For more information see our Results, reports and presentations

Executive HQ Dubai

Sustainable business strategy

Network access and sustainable development

• Growing our business and helping more people connect to a mobile network.

Business excellence and efficiency

 Maximising delivery of a continuous network service while minimising our environmental impact.

Empowered people and partnerships

 Promoting a safe, diverse, talented team and working to the highest ethical, social and environmental standards.



Sub-Saharan Africa: the opportunity and the challenge

The mobile market in Sub-Saharan Africa



Mobile supports all 17 SDGs

Mobile technology remains at the centre of how we address the SDGs (Sustainable Development Goals) – and its impact on all Goals is increasing every year¹.



As well as enabling mobile technology, we contribute to SDGs 8 and 9 and support a number of other Goals.²



1. <u>GSMA 2021 Mobile Industry Impact Report: Sustainable Development Goals</u>

2. Helios Towers: Supporting the UN Sustainable Development Goals

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Mobile technology drives emissions reductions

Mobile network-enabled technologies form an important part of the decarbonisation solution, enabling rapid emission reductions in other sectors while improving quality of life and supporting economic growth.



* <u>GSMA, The Enablement Effect</u>

There is a vast infrastructure gap in our markets



1: GSMA database, UN World Population Prospects, TowerXchange, Statista 2: GSMA database (accessed November 2021), UN World Population Prospects

3. <u>GSMA The Mobile Economy 2021</u>, <u>GSMA The Mobile Economy</u>, North America 2021

Sub-Saharan Africa: Low emissions and limited access to electricity



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Grid connectivity varies between our markets



Data on this slide reflects our 2020 position; the baseline for our carbon target.

Our 2030 target and roadmap



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Our carbon footprint

Our 2030 carbon target initially focuses on **scopes 1 and 2**, where we can make the most material impact



Scope 1 Includes generator diesel and vehicle petrol/diesel

98.8% of our scope 1 is fuel for our towers



Scope 2 Includes tower grid electricity and office electricity

99.6% of our scope 2 is tower electricity





Scope 3

Includes Well-to-tank/ Transport & Distribution; Purchased Goods and Services; Downstream Leased Assets; Freight and Business Travel

68.5%

of our scope 3 is from the production and processing of fuel for our towers

Total scope 1 and 2 emissions: $166,467_{1CO_2e}$

Our 2030 target



Annual target review

Our current target covers Tanzania, DRC, Ghana, Congo B and South Africa¹.

As we expand into new markets and collect operational data for a full year, we will review the baseline for our target.

We will also continually reassess our target as guided by the science to transition towards a low-carbon future.

* The five markets where we were operational for the full year of 2020. Our 2030 carbon target initially focuses on scope 1 and 2 emissions.

Our roadmap



Maintaining absolute emissions while growing our business

Absolute emissions (scope 1 and 2)



* This is the total of our 2020 scope 1 and 2 emissions.

The data on this page is based on five established markets which were fully operational in 2020. Baseline emissions forecast should not be construed as a financial forecast.

Our carbon reduction strategy

Carbon reduction pathway

Emissions per tenant tCO₂e



Increasing colocation at our towers

Colocation means that only one generator or power supply is needed to cater for multiple tenants, minimising maintenance visits and saving thousands of kilometres driven a month.

The more tenants per tower, the lower the emissions per tenant:



By reducing emissions from our towers, we are helping our customers to reduce their indirect emissions

58%

Four tenants

reduced average generator emissions per tenant





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Power solutions on our sites

Our dedicated Performance Engineering team continually reviews the most environmentally friendly and cost-effective solutions for each site – balancing site design and power needs.

We aim to maximise use of grid, hybrid and solar solutions wherever possible and reduce our fuel consumption.



Project 100: Carbon Reduction Programme (2022-2026)

Underpinned by our Business Excellence Programme



Optimising grid utilisation

Improving usage of the grid at our sites where the grid is unstable.



Increase battery usage

At off-grid and limited-grid sites, longer-life lithium-ion batteries reduce generator run time.

>70%

CO2



Connecting to the grid

Connecting off-grid sites to grid supply through national grid providers and private electricity companies.



Using solar solutions

Solar solutions are optimal for off-grid and limited-grid tower sites.

sites will have hybrid and solar solutions by 2026 (31% in 2020)

Project 100: \$100m investment in carbon reduction and innovation from 2022-2030

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Project 100: Carbon Reduction Innovation (2027–2030)



Hydrogen fuel cells



New technologies e.g. super capacitors



Alternative fuels



Large-scale solar farms

Wind techr

Wind technology



Mini-grid community projects Bloomberg forecasts that by 2030 the cost of lithium-ion batteries will decrease by **62%***

25

Project 100: \$100m investment in carbon reduction and innovation from 2022-2030

* S&P Global Market Intelligence

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Looking ahead to net zero by 2040

Key activities in 2022



Strategy and reporting

Rebaselining target to include Senegal footprint.

Build on our first response and use CDP as a framework for developing our strategy.



Stakeholder engagement

Engage with our customers and suppliers on their reduction strategies and targets.

Explore offsetting projects which support underserved tower communities.

Risk and climate scenario analysis

TCFD

Evaluate future opportunity and risk to our operations from climate change.



Renewable energy

Assess the options to decarbonise the electricity we consume and encourage more renewable energy production in our markets.



SBTi Net-Zero Standard

Assess requirements and feasibility for the SBTi's first global standard for net zero.

Looking ahead to net zero by 2040

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External enabling conditions in our markets 合 命例命 <u>「</u> ろ (+)+合 **Proliferation and** Supportive Innovation in 200k decarbonisation policy battery technology of national grids environment and solar and carbon solutions financing Building on our strategy OUR LONG-TERM °CO₂́́ AMBITION 0 $\mathcal{L}\mathcal{L}$ Net zero carbon emissions Colocation Carbon Carbon by 2040 growth Reduction Reduction Programme Innovation 0 2030 2040 2020



We look forward to sharing our progress and developments on our carbon reduction journey.

Thank you





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