



ATC UGANDA

Sustainable Digital Transformation



Introducing American Tower Corporation ⁽¹⁾

ATC is a globally diversified provider of mission-critical communications real estate

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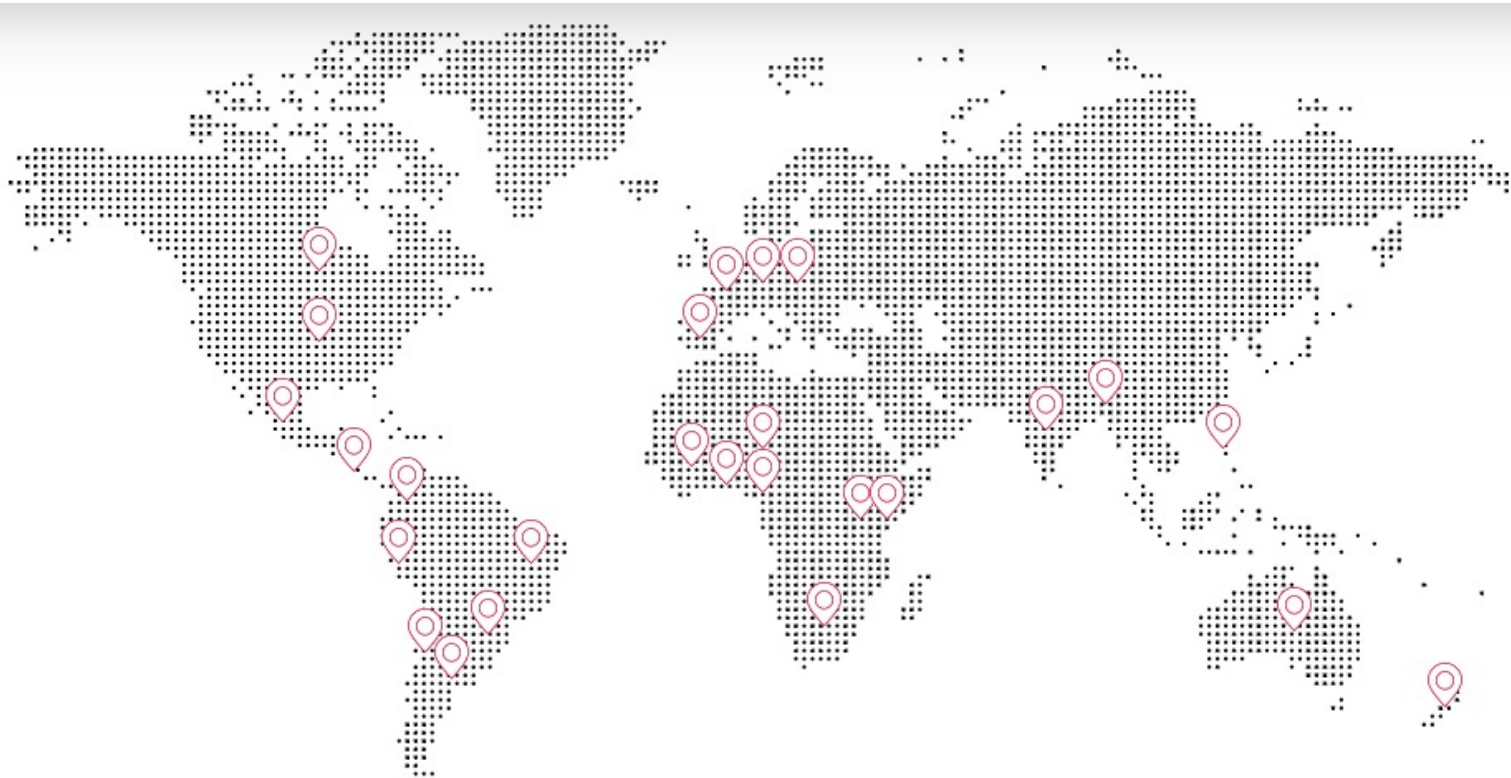
Countries

6,400+

Employees

~226,000

Total Communications Sites



Comprehensive Wirelesss Asset Portfolio

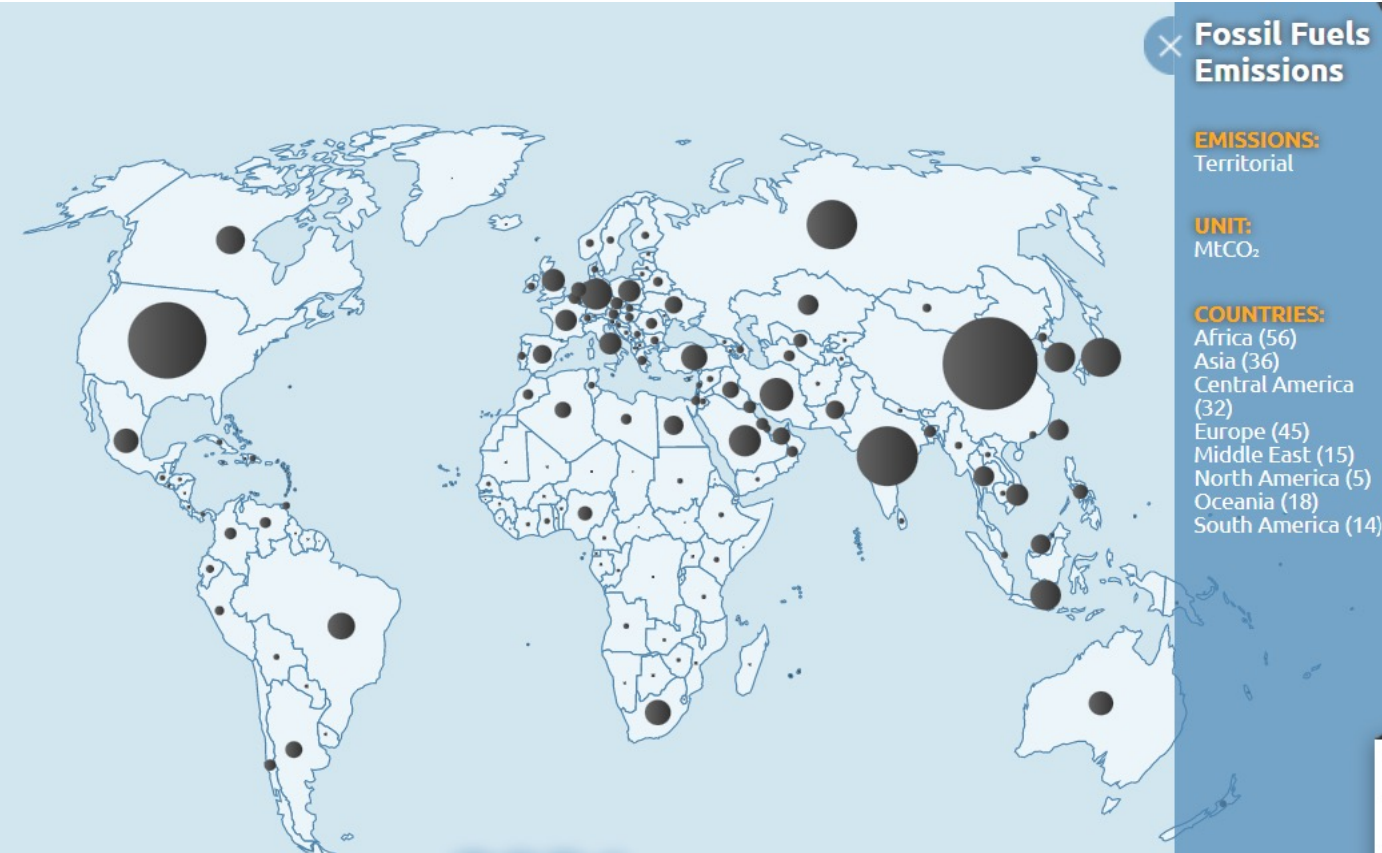
- Long-term Agreements with Leading Global Mobile Network Operators
- U.S. (~43,000 towers)
- International (142,000+ towers)
- Indoor Solutions (1,800 global sites)
- Data Centers (27 globally)
- Power and Energy Site Services
- Real Estate Connectivity Management

(1) Data as of March 31, 2021.

(2) In many international markets, we have non-tower, non-DAS communications infrastructure assets which are excluded from site counts.

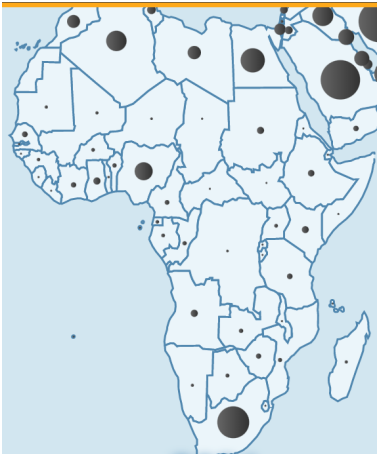
(3) In Australia, the Company does not own or operate communication sites but controls land under carrier or other third-party communications sites, which provides recurring cash flow through tenant leasing arrangements.

Global Carbon Atlas

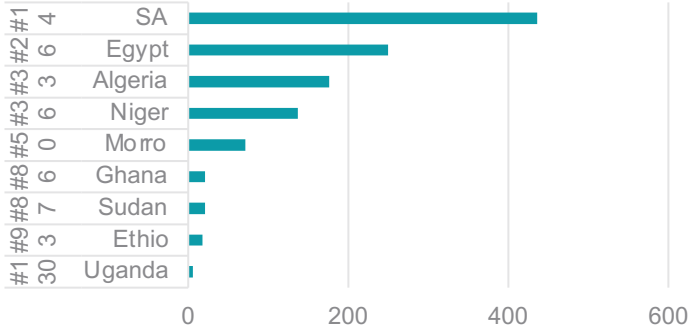


Territorial (MtCO₂)

Rank	Country	MtCO ₂
1	China	11472
2	United States of America	5007
3	India	2710
4	Russian Federation	1756
5	Japan	1067
6	Iran	749
7	Germany	675
8	Saudi Arabia	672
9	Indonesia	619
10	South Korea	616



Africa Country emissions (select)



Sustainable Digital Transformation

Uganda's ICT Sector- Journey
Assessing GHG Emissions



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Uganda's journey on ICT



East Africa and Uganda Protectorates 1912 five rupees stamp



A payphone is mounted on a bicycle in Uganda.

Uganda's journey on ICT



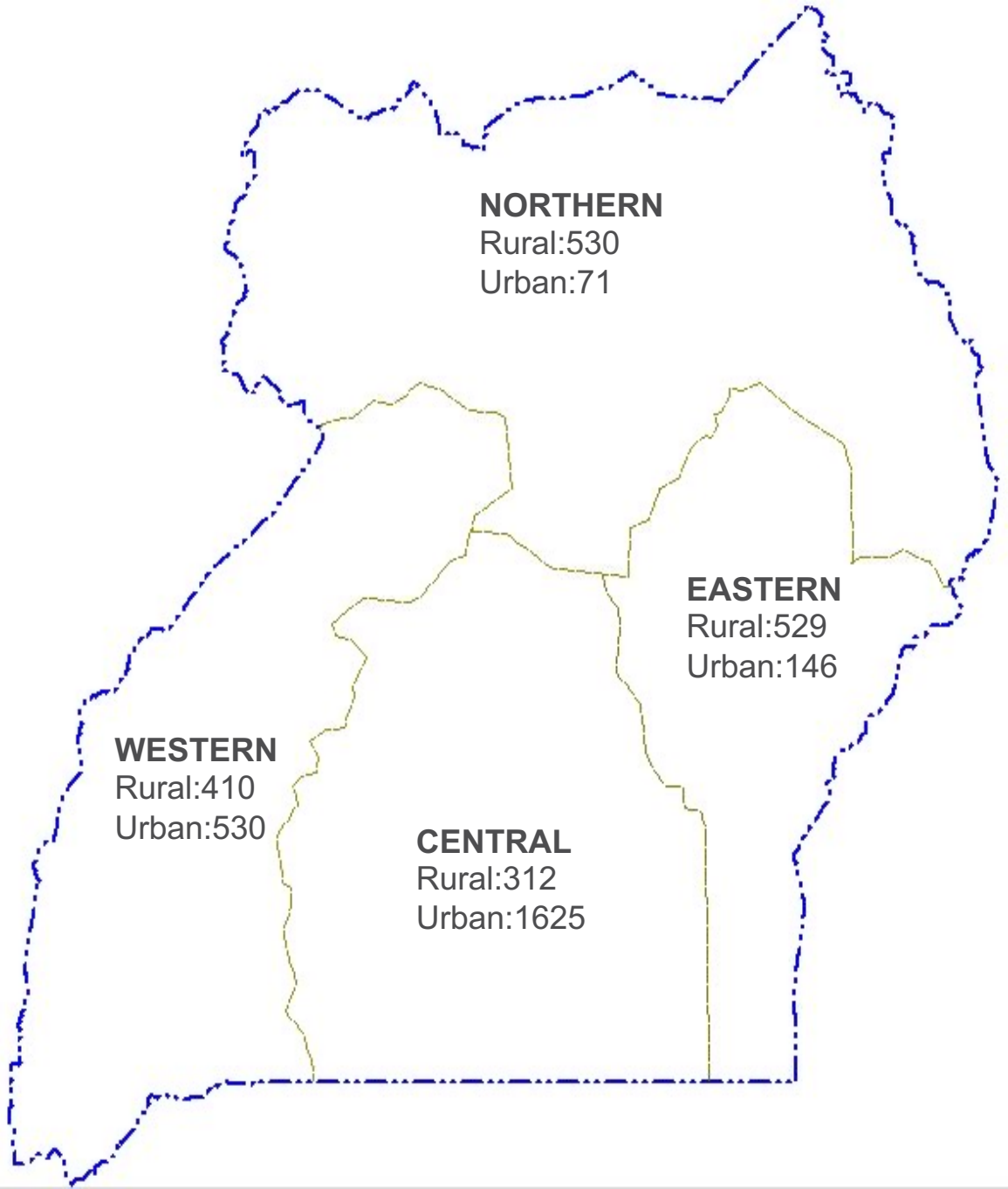
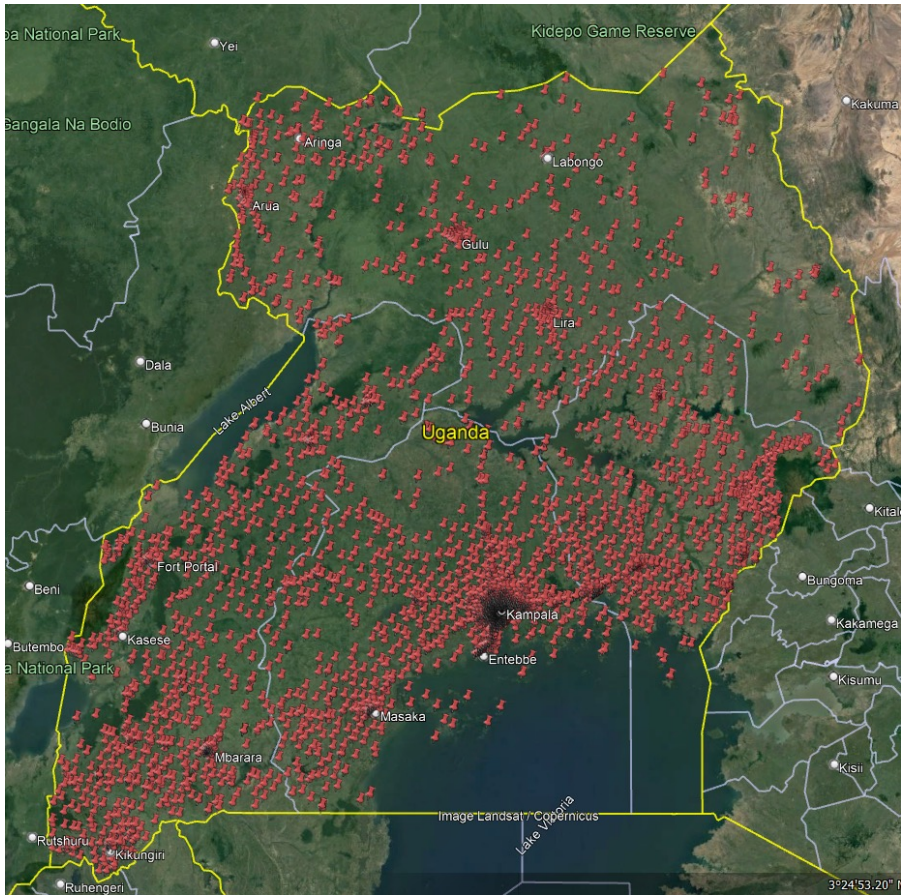
Sustainable Digital transformation

Around
60%

of Uganda's Tower footprint in Urban areas

31%

in Kampala and Wakiso



ICT Sector key initiatives

Tower Co business model help reduce sector carbon footprint

- ❑ Reduced number of towers (infrastructure sharing)
- ❑ Energy Saving
- ❑ Reduction in visual pollution



Assuming each NTO licensed operator required 1000 towers over the next 4 years

Concrete **320,000** tons

Steel **24,000** tons

21%
reduction
annually



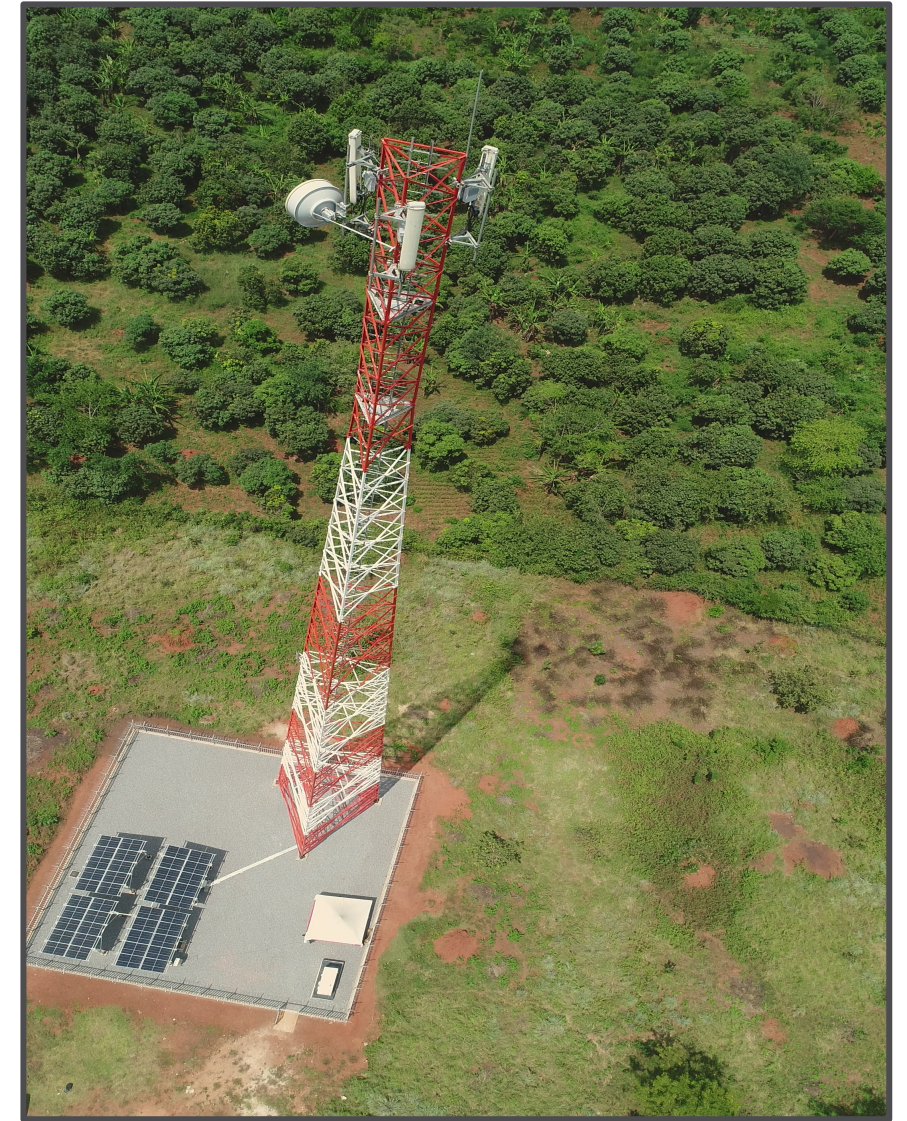
ATC_ Key Initiatives

Sustainable Digital Transformation

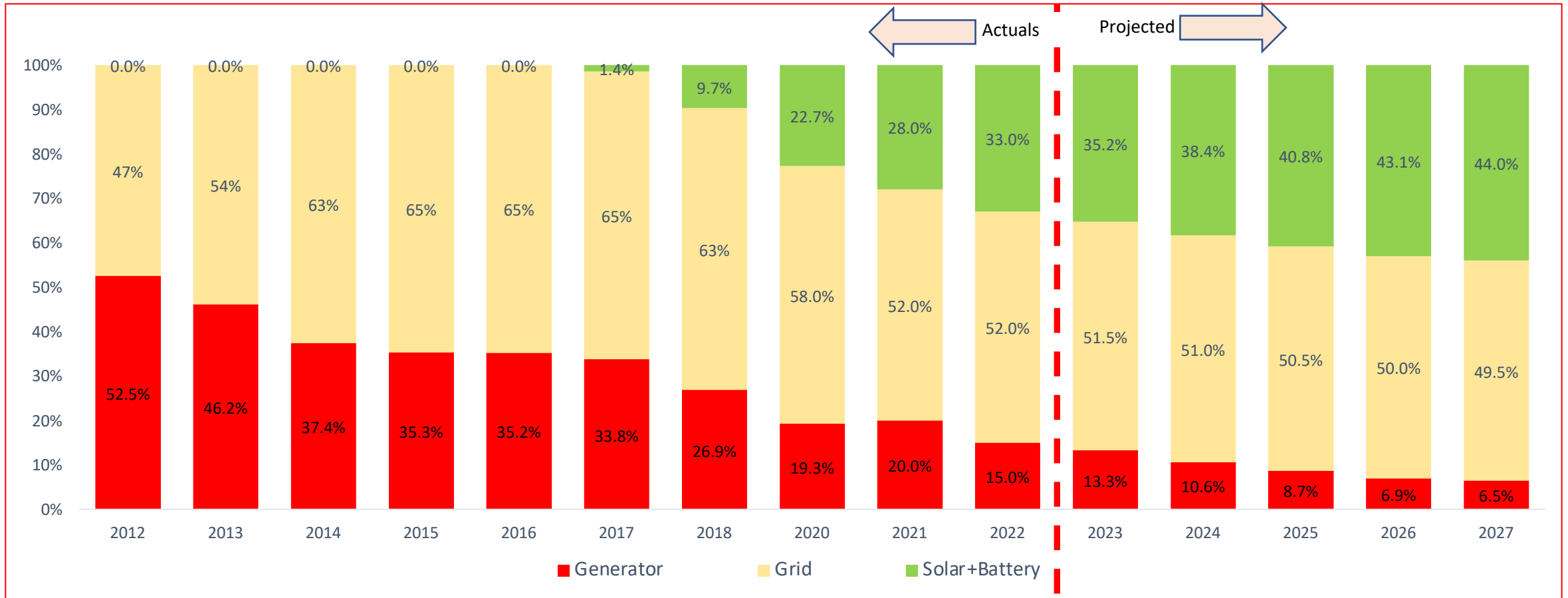


Uganda's landscape

- ❑ 13.8M/ 46M have access to electricity
- ❑ 30% of population
- ❑ Solutions- solar home systems, mini grids in rural areas, public private partnerships
- ❑ 1 LTR of diesel= 2.68 kg of carbon
- ❑ 1 hour of DG= 3 LTRs of diesel= 21 kg of CO2

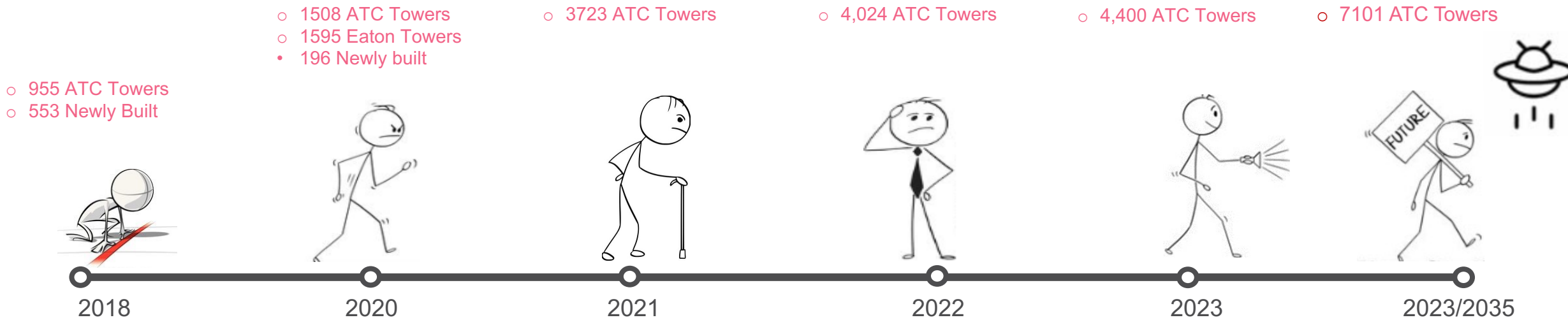


Energy Source Distribution Journey- 2012 >>2027

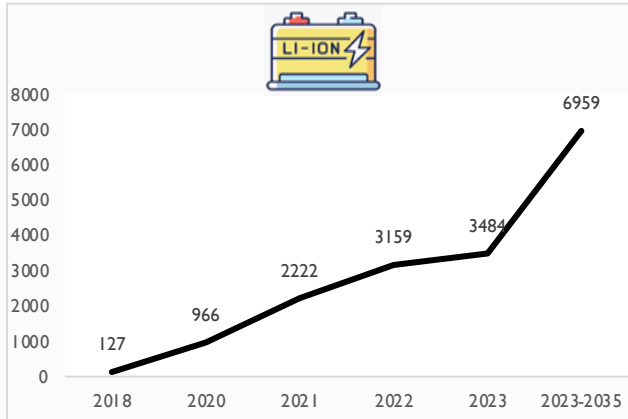
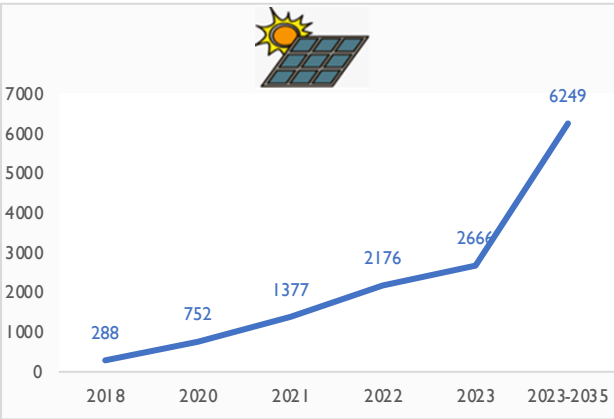
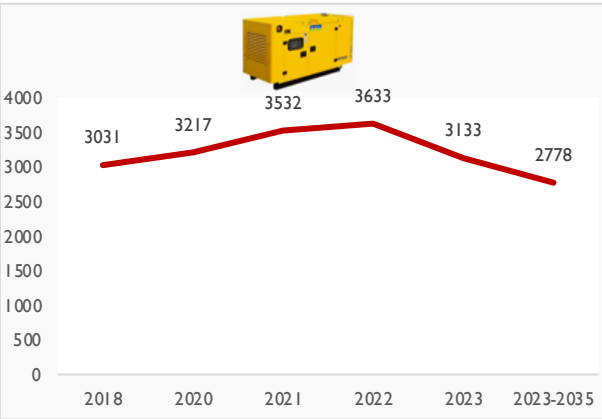
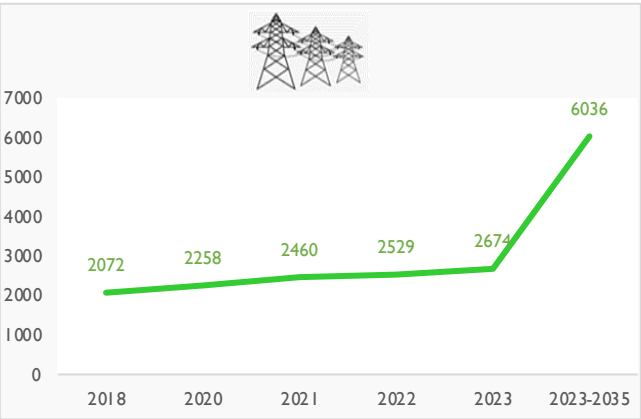


- ❑ 37.5% movement in the Energy mix from the diesel generator contribution to renewable energy sources by 2022 from 2012 baseline.
- ❑ Accelerated deployment of Solar and LIBs to 33% of energy contribution by end of 2022.

ATC Uganda Power Journey



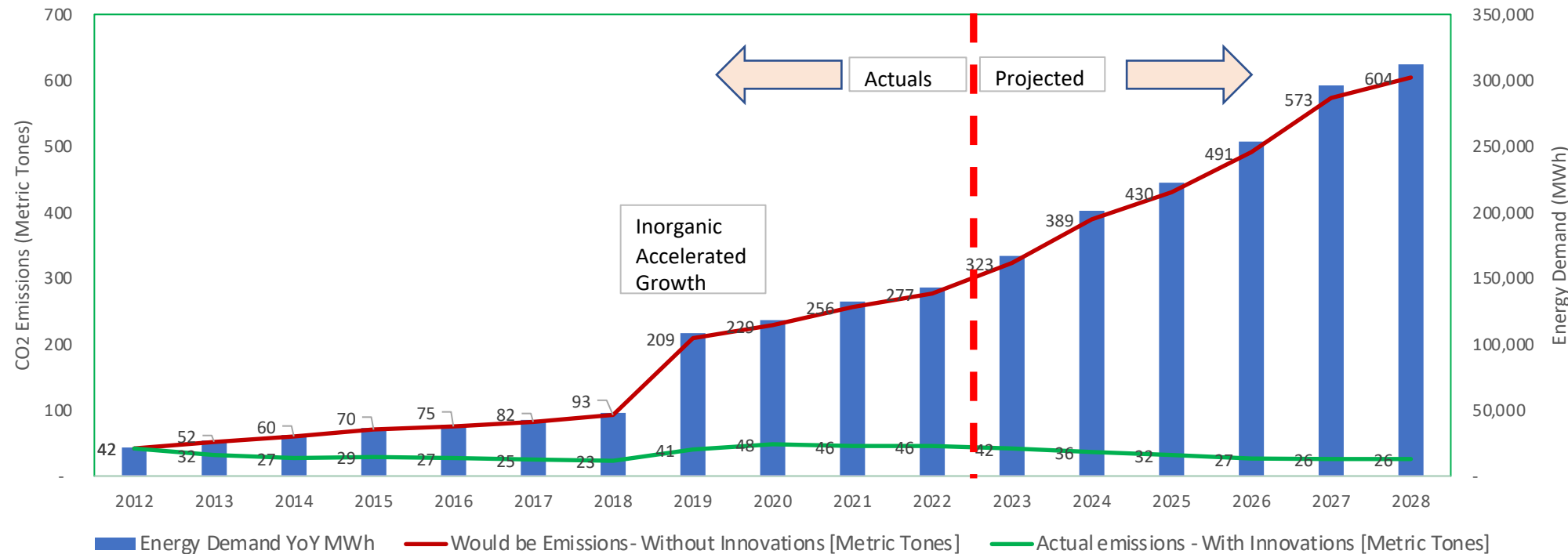
- 1508 Towers
- 3378 ATC Towers from MTN, Eaton + BTS
- 3723 ATC Towers
- 4,024 ATC Towers
- 4,400 ATC Towers
- 7101 ATC Towers



Decarbonization Journey: CO₂ Emissions Vs Energy Demand

Positioned to reduce carbon footprint through renewable Energy investments and operational best practices

Uganda CO₂ trends analysis 2012 to 2028



~1,061

Metric tones of CO₂ avoided since 2012 due to fuel saving solutions

~0.319

Tones of CO₂ per MWh of energy down from 1.936 in 2012

~18.1

MWp installed since 2012 targeting areas with poor or no grid

~126

MWh of high-capacity Lithium-Ion Batteries installed

~62%

Grid connection rate in 2022, targeting 86% by 2028

~2

New energy solutions targeted in 2024

Hindsight:

- CO₂ emission on a consistent downward trend since 2020 despite increasing number of sites and related power demand. Attributed to grid, solar, LIB deployments coupled with AI assisted network optimization.

Foresight:

- Power demand is projected to have an exponential growth with ever increasing demand for digital solutions. This will be matched with more innovation to sustain CO₂ reduction trends.
- All new sites installed with high capacity Solar and LIBs as a priority targeting a carbon neutral network.

ATC Story



Remote
telemetry
system for
energy/service
level
management



Electronic
access and
security
solution
systems



Workforce
management
tools to drive
efficient
resourcing.



AI analytics



Systems, tools
and
automation to
drive
operational
efficiencies



Telecoms
Infrastructure
sharing

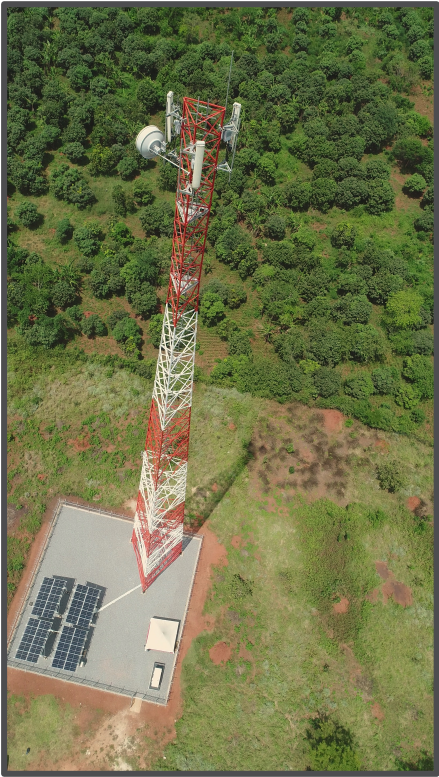


Green Energy
focus to
reduce Co2
emissions

Sustainability focus

ATC Product Portfolio

Macro towers



Mini-macro: Street macro



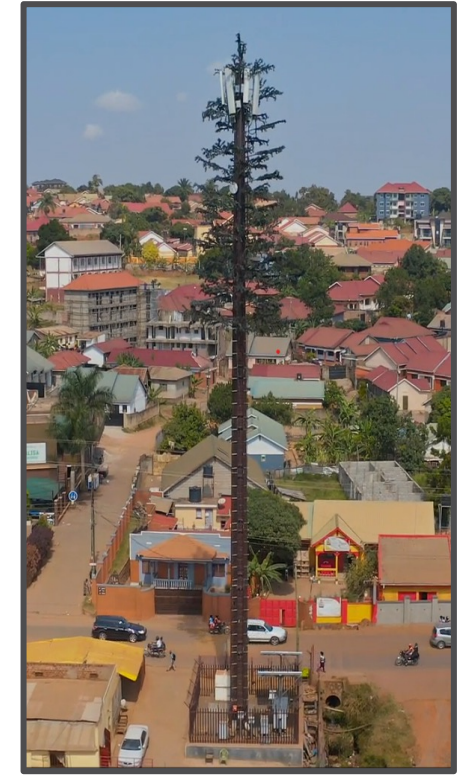
Mini-macro: City macro



Monopole



Pine tree



ATC has continued to transform from the traditional towers of early 2000s into to more innovative tower solutions in support digital services densification

ICT _The enabler for other sectors

ICT_ Enabler for other sectors

Support to Cities

- ☐ Provide technology as backbone for smart cities
- ☐ Conducted a study to inform infrastructure requirement for Kampala

Health Care

- ☐ Tele medicine (mobile health services)
- ☐ Tele consultations,

Education

- ☐ ICT centres to provide digital learning
- ☐ E Learning

Oil and Gas

- ☐ Provide Tower infrastructure and mobile operator services in Oil fields



Thank You!



AMERICAN TOWER®

Chief Executive Officer

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