

The background features a vibrant, abstract composition of colors including deep blues, purples, and magentas. A central, spiky, thistle-like object is rendered in shades of pink and purple, appearing to glow against the darker background. The overall effect is dynamic and futuristic.

ICT Development Forum : The role of telecommunications in achieving sustainable development and environmental goals

EITC

09-Nov-2023





Paris Agreement aims to limit global warming to 1.5°C above pre-industrial levels and reach net-zero emissions by 2050

ITU: ICT industry must cut carbon emissions by 50% by 2030 to meet UN climate change goals

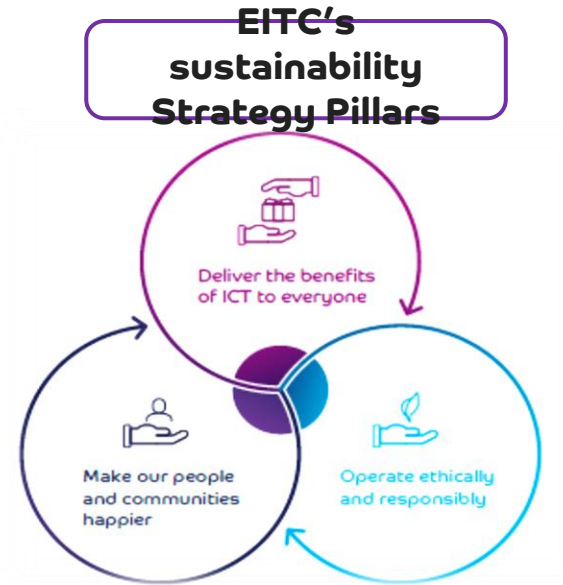
GeSI: ICT has the potential to enable a 20% reduction of global CO₂ emissions by 2030

EITC started Net-Zero Journey and announced its commitment to comply with Paris Agreement's 1.5deg target

EITC Net-Zero Journey



Objective

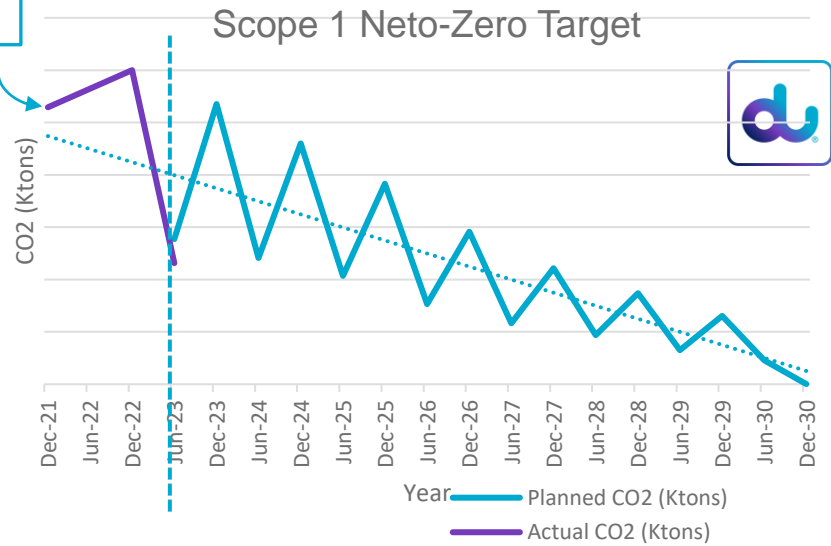


Actions

- **Baseline for Scope 1 & 2 has been established as Year 2021**
- **Inventory emissions for Scope 1 & 2 is in place from 2021 up to H1-2023**
- **Emissions reduction plan for Scope 1 & 2 is in the execution phase**
- **Scope 3 emissions calculation methodology is in progress**

EITC Net-Zero Journey

2021
Baseline



Scope 1 Emissions Reduction Plan

Scope 1



more Hybrid power system - **less # tons/ Annum CO2**

more Solar - **less # tons CO2**

Stop using new generators as main source to power up a site

Convert # sites to pure solar - **less # tons/ Annum CO2**

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Feasibility study for using green Refrigerants for the AC units

Convert # sites to pure solar - **less # tons/ Annum CO2**

Change # of vehicles to EV **Less # tons/ Annum CO2**

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Replace diesel fuel with bio fuel for all standby generators # **less CO2**

Carbon offset for the remaining 5-10% of emissions that can't be eliminated

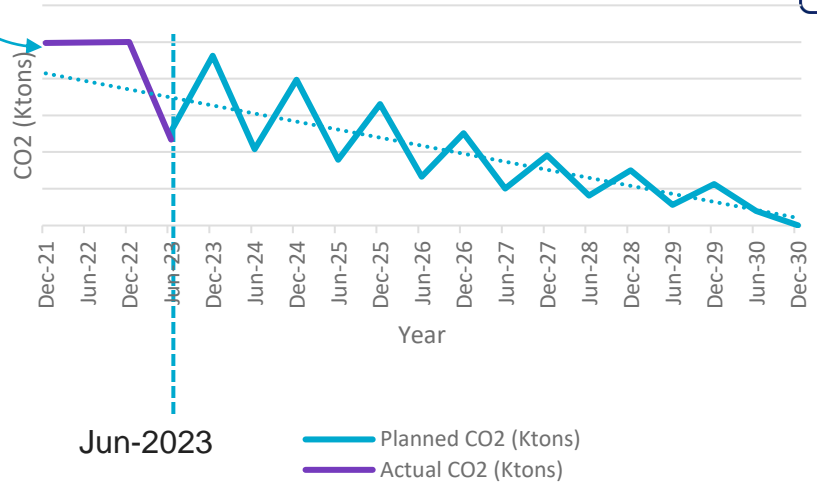
Operate Responsibly

EITC Net-Zero Journey



2021 Baseline

Scope 2 Net-Zero Target



Scope 2 Emissions Reduction Plan

Scope 2

2023	2024	2025	2026	2027	2028	2029	2030
<p>Solar on tower ## CO2 reduction</p> <p>Cooling efficiency: Isle containment, air management in all facilities ##CO2</p>	<p>Solar on tower</p> <p>Equipment modernization with higher efficiency</p> <p>##less CO2</p>	<p>Solar on tower</p> <p>Equipment modernization with higher efficiency</p> <p>Renewable Source from utilities</p> <p>Less ## CO2</p>	<p>Solar On tower</p> <p>AI based energy saving solutions in DCs&TFs</p> <p>## Less CO2</p>	<p>Renewable Source from the utilities</p> <p>Cess ## CO2</p>	<p>migrating POPs to DC and MiniCore to POPs</p> <p>Renewable source from utilities less ## CO2</p>	<p>deploying a free cooling systems</p> <p>Less ## CO2</p>	<p>Carbon offset for the remaining 5-10% of emissions that can't be eliminated</p>

Operate Responsibly

Bi-Directional Strategy



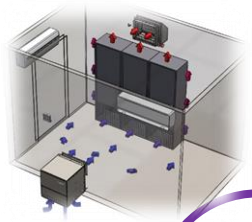
What role are we playing to support Paris Agreement's 1.5deg. Target?

Greening of own Network

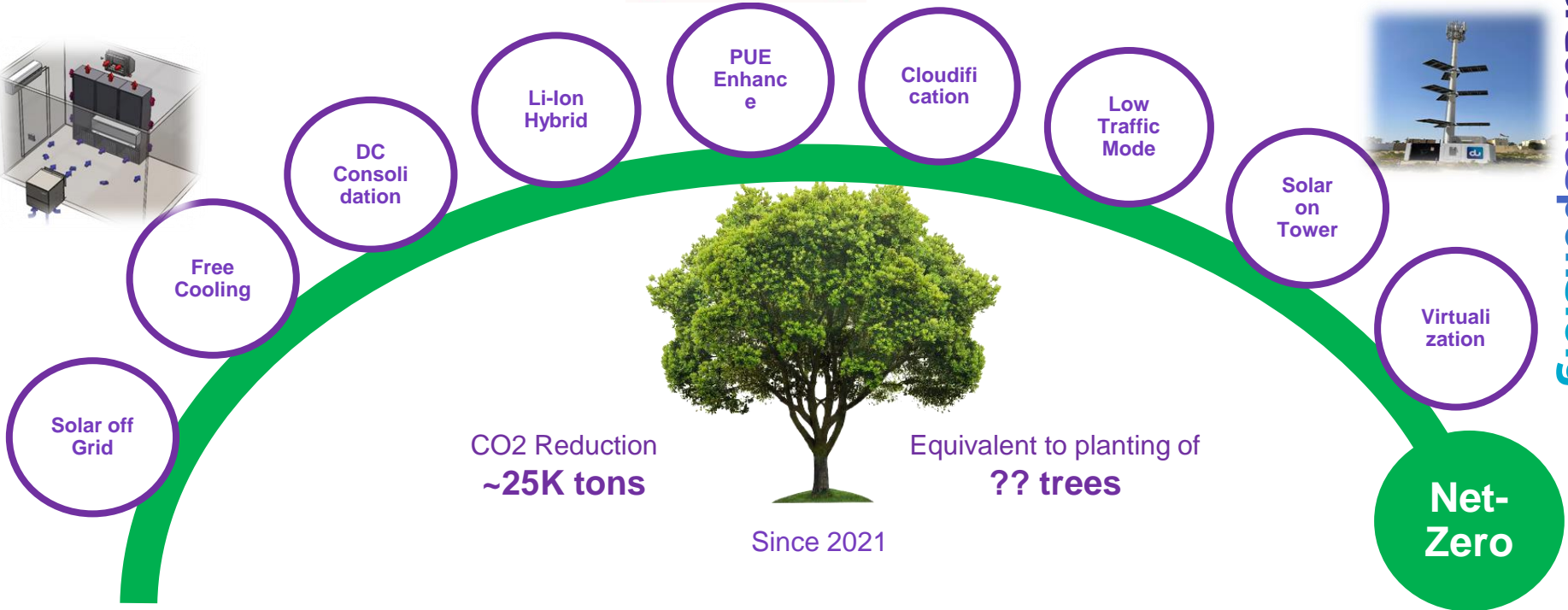
Greening of Other Sectors



EITC Net-Zero Journey – Greening Our Network



Operate Responsibly



CO2 Reduction
~25K tons

Equivalent to planting of
?? trees

Since 2021

Net-Zero

EITC Net-Zero Journey – Solar On Tower



In-House Innovative Developed Solution and first-of-its-kind Globally

Solar On Tower



Produces around **26.6 MWH** of electricity per site annually



Reduces energy bill by around **75%** per site annually



Reduces CO2 emissions by around **12.5 TONs** per site annually



Realizes Solar deployment at extreme confined footprints



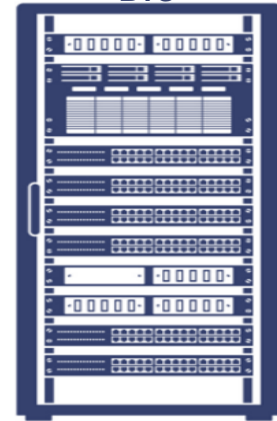
Solar controller

DC Power LOAD Distribution

Inverter

Air Cond.

BTS



Digital Solutions provided by EITC – Greening Other Sectors



Command & Insight Project

- ❑ Sustainability KPI real time tracking
 - Energy Management
 - Waste management
 - Water consumption
 - Air quality
 - CO2 Emissions



Ghaf tree protection

- ❑ AI based solution – using GIS satellite images
 - Identifies Ghaf tree
 - Count of trees
 - Tree canopy and its health
 - alerts the municipality's concerned section in case of any issue



Environmental outreach application

- ❑ Consolidation of multiple initiatives into a single cohesive interactive system
 - To increase environmental awareness
 - To reach a wider audience and to effect participation from the community

Thank you

Add life to life.

