

**From electricity grid to
broadband Internet:
Sustainable and innovative
power solutions for
rural connectivity**



 ITU Development and Int'l Telecommunication Union

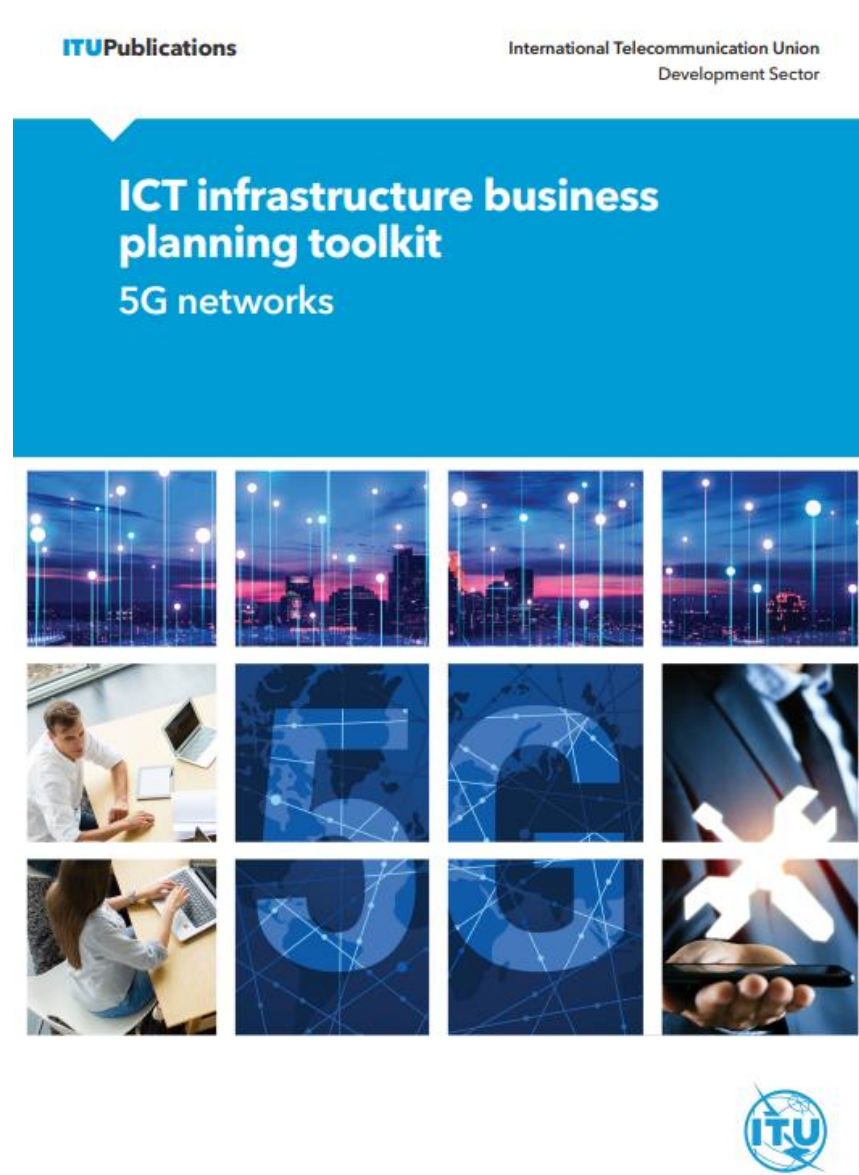
The report has been launched on ITU-D social media channels
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available at:

https://www.itu.int/dms_pub/itu-d/opb/tnd/D-TND-09-2023-01-PDF-E.pdf

1. We are observing the digital divide growing in rural areas that have slow, unreliable, or even no ICT access for Rural Communications, mainly because of the lack of electricity !!!
2. This publication on Sustainable and Innovative Power Solutions for Broadband Connectivity helps to assist Member States in upgrading their networks and integrating the relevant use of modern and more energy-efficient networks including Wireless Electricity (transport of electrical energy without wires) and Power Line Communications (PLC). They support countries to gear up towards developing greener ICTs by ensuring access to affordable, reliable, sustainable, and modern energy in Rural Areas.
3. The main objective is to overcome the energy challenge and to boost the Broadband Internet connectivity in rural areas. ***No Electricity Power, No Broadband Internet Connectivity !!!***
 - It provides, Innovative and sustainable energy technical solutions for cost effective power solutions in rural areas (Modern Solar, Wind and Micro-hydro plants ...including the Wireless Energy Transmissions etc...
 - Financial Mechanisms for Renewable Energy Investments
 - Financing Rural Renewable Energy Infrastructure
 - Energy Policy Mechanisms and Recommendations

- ICT Infrastructure Business Planning Toolkit – 5G networks



Broadband Interactive mapping systems

Choose a country × 🔍

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INDICATORS DASHBOARDS LAYERS

LAYERS

- TRANSMISSION NETWORKS
- OTHER INFRASTRUCTURE
 - Internet Exchange Point
 - Satellite earth station
- ITU INDEXES
 - ICT Regulatory Tracker
 - G5 Benchmark
 - Avg Reach to fiber <10 km
 - Global Cybersecurity Index
 - National Mapping Systems
 - Business Planning Activities

Other Domains

- Last mile connectivity toolkit
- ICT infrastructure mapping
- Satellite communications
- Digital Broadcasting & Spectrum Management