

# How can the telecommunications industry achieve carbon reduction goals through site energy consumption



## Overview

Energy efficiency: Companies can achieve up to 30 percent energy cost savings by combining technology solutions, site and equipment optimization, energy storage, pricing, and operational levers. These same practices can also make significant contributions to. For telecom companies to make more significant progress toward sustainability, they need an in-depth understanding of both their carbon footprint and the specific decarbonization levers available to the business. AI + clean Energy = a telco transformation AI is emerging as one of the most powerful tools in helping telcos reduce their carbon. Collaboration between the digital and energy sectors can cut ICT emissions and encourage sustainable energy use. Recent energy price hikes have hit the telecommunications sector hard, compounding the increased energy use involved with building out. 5G and renewables are cutting telecom energy use and emissions fast, with major progress by major operators. Sustainability in telecom is no longer a side promise. With 5G expected to cut energy use per connection by 50% versus 4G, the GSMA projects up to a 20% reduction in global telecom carbon.



## Article Content

Telecom emissions: Tackling the big challenges | McKinsey

To help decarbonize their ecosystem, telecom companies should focus on the major sources of Scope 3 emissions, such as handsets, network equipment, and construction materials, as

Sustainable Telecommunications: Pioneering Energy

Sustainable Telecommunications: Pioneering Energy-Efficient Mobile Networks for a Net Zero Future 5G Americas' latest white paper explores

Building Sustainable Telecommunications Companies | BCG

As noted earlier, for example, 5G can reduce energy consumption on mobile networks. In addition, telcos can significantly reduce the carbon intensity of data centers they own by

The Paris Agreement | UNFCCC

What have we achieved so far? Although climate change action needs to be massively increased to achieve the goals of the Paris Agreement, the years

The growing imperative of energy optimization for telco

Our research shows that companies can achieve 15 to 30 percent savings in energy cost by using a holistic approach that combines technology

The key to lowering telecom costs: Energy | McKinsey

Telecom costs from energy are rising, but new efficiency measures and technology can help reduce them by 15 to 20 percent in just one year.

(PDF) TELECOMMUNICATIONS ENERGY EFFICIENCY:

By implementing these strategies, the telecommunications industry can contribute significantly to global environmental goals while securing enduring economic benefits.

Sustainable telecommunications in the energy transition

Discover how the telecoms industry is navigating the energy transition by balancing sustainability and growth while driving global decarbonisation.

Telcos' Modest Emission Reduction Progress | BCG

As a result, telecom operators are actively seeking ways to meet their sustainability goals, to future-proof their business against the rising costs of energy and of carbon abatement, and

Energy Efficiency and Sustainability in Mobile Communications Networks

Innovation is required for the telecommunications industry to address sustainability and energy efficiency challenges. Many network operators are aiming for Net Zero emissions through energy-efficient

Measuring the Emissions & Energy Footprint of the ICT Sector ...

Tech companies are among the top consumers of electricity globally, indicating their potential to influence emission reduction and promote sustainability. Collaboration between the digital and

Telecom and Net Zero: Roadmap for the Future

Discover how the telecom industry can achieve net zero emissions through energy efficiency, renewables, and sustainable practices. Read the blog to know the roadmap.

Sustainability In The Telecom Industry Statistics 2026

Sustainability in telecom is no longer a side promise. With 5G expected to cut energy use per connection by 50% versus 4G, the GSMA projects up to a 20% reduction in global telecom carbon emissions by

Our power, our planet: renewable energy in the telco industry

The telecom industry has a unique responsibility—and an incredible opportunity—to lead the way to a sustainable future. With renewable energy, AI, and bold commitments, telcos can do

Sustainability In The Telecom Industry Statistics 2026

5G technology is estimated to reduce energy consumption per connection by 50% compared to 4G, leading to a potential 20% reduction in global telecom carbon emissions by 2030, according to the

5 sustainability initiatives in the telecommunications industry

5 sustainability initiatives in the telecommunications industry Telecom operators have committed to sustainability plans to reduce carbon emissions and energy use. But they also face

Ambitious corporate climate action

View businesses taking ambitious climate action Businesses setting science-based targets demonstrate the level of ambition possible when it comes to

The Financial Express | First Financial Daily of Bangladesh

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Making technology work for business – United Kingdom

Computerworld covers a range of technology topics, with a focus on these core areas of IT: generative AI, Windows, mobile, Apple/enterprise, office

Global Co-Packaged Optics (CPO) Technology Market Size, Share,

Regulatory frameworks aimed at reducing energy consumption and carbon emissions are incentivizing data center operators to adopt more efficient solutions. For example, initiatives by

Have your say

European Commission - Have your say Citizens and businesses can share their views on new EU policies and existing laws.

Telco sustainability | Deloitte Insights

Telecommunications companies can reduce their carbon footprint by shutting down copper wire and 3G wireless networks, changing their field service fleets to EVs, and switching to 5G

Prioritizing Telecom Sustainability and Reduce Carbon

Why Is Telecom Sustainability Important? The urgency for sustainability in the telecommunications sector has steadily increased over the

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Telecom emissions: Tackling the big challenges

Tackling the first quarter of a telecom operator's carbon footprint is often a relatively straightforward mix of reducing direct emissions and achieving

## Contact Us

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