

Energy Consumption

Implementing measures to improve energy efficiency and promote sustainable practices to mitigate environmental impact.

Impact & Financial Assessment

Monitoring and reducing energy consumption align with environmental goals and can result in cost savings. Failure to address energy efficiency may lead to increased operational costs and environmental impact.

According to GSMA Intelligence, energy consumption accounted for 15-40% of telcos operating expenditure. With 5G networks, this could be higher. CelcomDigi has implemented energy saving initiative such as Centralised Self-Organising Network (CSON) AI Initiative, which generates 5% energy savings per site and has committed to increasing its renewable energy use, currently 30 sites are run off renewable energy.

Overview

CelcomDigi is dedicated to optimising energy consumption across our operations to reduce our environmental impact and operational costs. We implement energy-efficient technologies and practices, monitor energy usage, and continuously seek opportunities to improve our energy performance.

Policies & Guidelines

- Sustainability Policy
- Enterprise Risk Management Policy & Manual

CelcomDigi Berhad

[Registration No. 199701009694(425190-X)]

CelcomDigi Tower, No. 6, Persiaran Barat,
Seksyen 52, 46200 Petaling Jaya, Selangor
www.celcomdigi.com

Our Response

- Implementing energy-efficient technologies and practices in our operations
- Implemented AI-driven tools to optimise energy consumption in networks and reduce idle energy use, embedded stringent e-waste disposal requirements as part of the ongoing network integration and modernisation exercise
- Transitioned to hybrid solutions and renewable energy for powering network infrastructure, including towers and data centres
- Promoting the use of renewable energy sources where feasible
- Monitoring and reporting on energy consumption to drive continuous improvement
- Engaging employees and stakeholders in energy conservation initiatives

How do we deploy a Greener Network?

Our network modernisation initiatives leveraged cutting-edge technologies to optimise energy use and minimise our carbon footprint. These innovations included:

- AI-powered network optimisation that reduced energy consumption
- Liquid cooling for network infrastructure
- AI-driven energy management systems
- Advanced battery storage solutions

Other technologies adopted include:

- Hybrid solar technology deployment
- Hybrid battery gensets installation
- Exploring grid-connected solar solutions

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