



Sustainability and Circular Economy for Telecom

Kurt DE LANGE

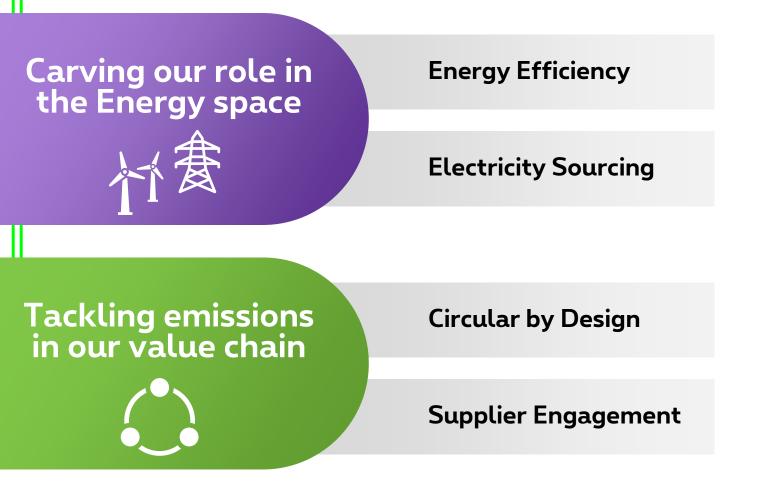
Lead of Transport & Data Networks

Network Sustainability Ambassador







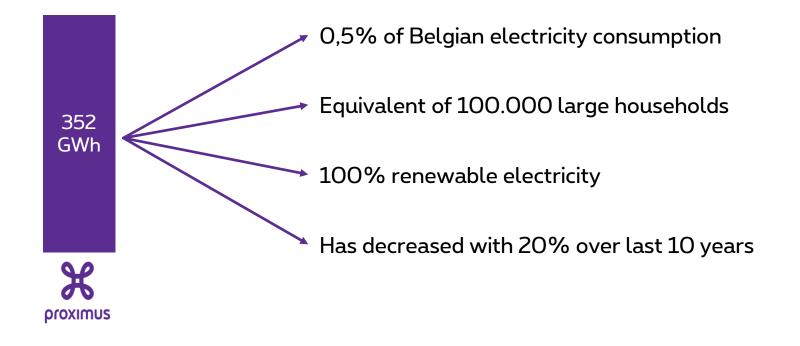






Energy Efficiency

Proximus total electricity consumption

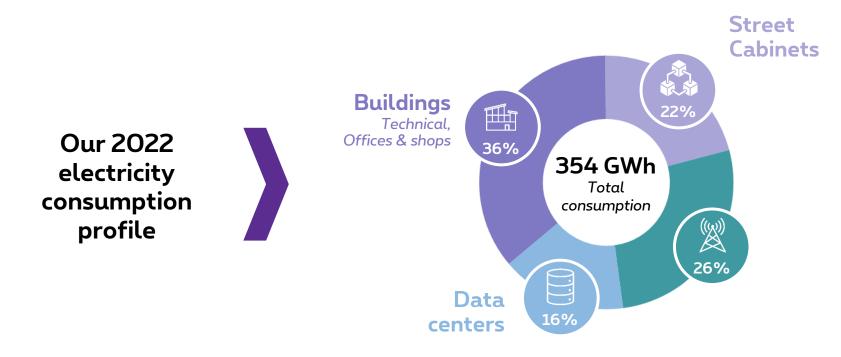






Energy Efficiency

Our activities have an intensive electricity consumption profile, spread between buildings, mobile, street cabinets & data centers







Energy Efficiency

Electricity consumption strategy is built on three principles

Invest in the future sustainable networks



23/3/2023

Out-phase legacy equipment and buildings



Optimize the existing assets



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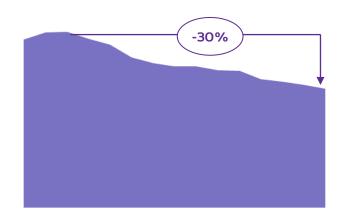


Energy Efficiency

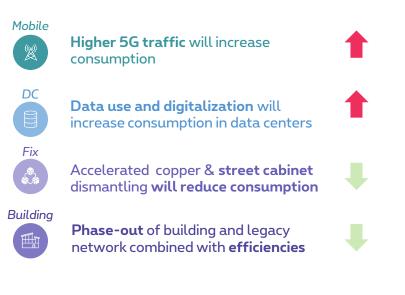
Electricity efficiency programs have generated tangible reductions, but even with additional savings, consumption will remain ~flat in coming years

Electricity efficiency programs have delivered tangible consumption savings of 30% in the past...

Proximus consumption profile 2007-2021 (in GWh)



...but forecasted consumption will remain flattish despite optimizations identified in prior years





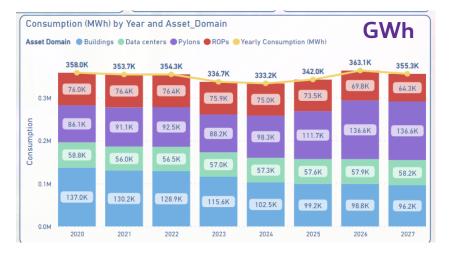


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Energy Efficiency

Coming years, consumption is to stay relatively flat (compared to 2022 consumption)

2) Roll-out of 5G causes large increase in mobile consumption, offset by efficiencies in buildings & ROPs



Expected evolution by 2030

- o Further decrease of ROP consumption
- o Further increase of mobile consumption
- o Data Center growth more or less steady
- o Further decrease of buildings consumption



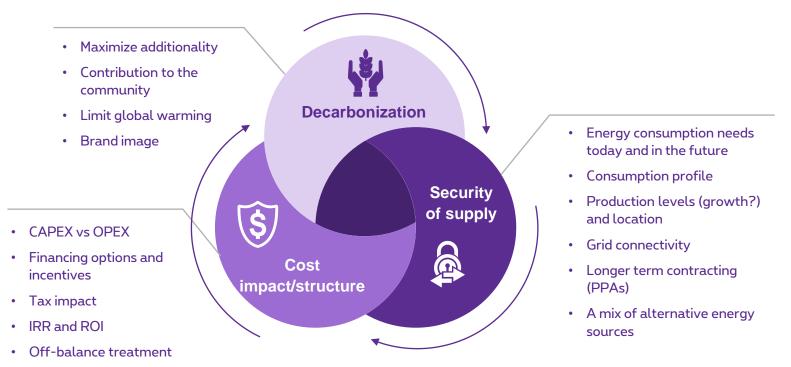
Will efficiencies compensate for mobile increase? Uncertain at this stage





Electricity Sourcing

Our energy strategy should define the right balance between decarbonization, costs and security of supply







Electricity Sourcing

Reaching our Green sourcing ambition translates into 4 key enabling domains to be developed in our roadmap







Electricity Sourcing



Increasing self-generation and transitioning to a portfolio of PPAs to ensure supply security

Renewables

Challenges

Green energy will become a scare resource that we need to proactively secure

Evaluating a PPA opportunity is complex (fit in the mix, contractual terms, price, etc.)

Supply contracts can be a barrier for cPPAs



Data is paramount to optimize and manage our electricity consumption

Insights

We need to **collect more electricity** data

We need a scalable centralized space to gather the massive amount of data

> Use data to realize savings/optimizations





Electricity Sourcing



Flexibility to reach 24/7 which can be achieved through storage and demand response

Flexibility

Challenges

24/7 will require to **develop** electricity storage options

Being able to **adapt its electricity demand based on the renewable production** is key for 24/7

Demonstrating/managing 24/7 matching requires specific tooling



Energy Efficiency Energy efficiency eases the 24/7 transformation and go hand in hand while data is key to reach this

We are **front runners in energy efficiencies** (no more quick wins)

25/9/2023

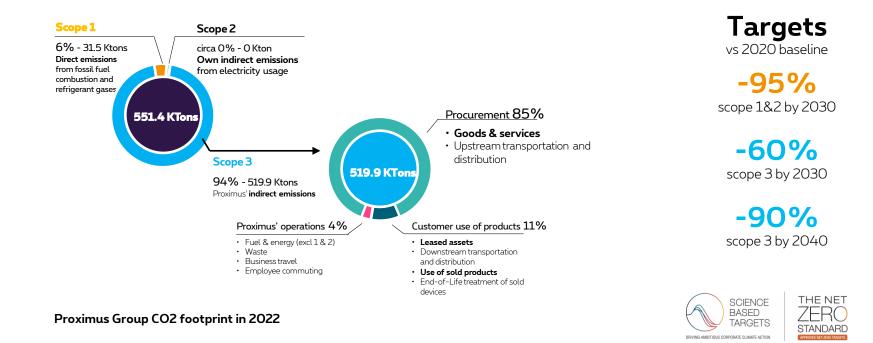
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Tackling emissions in our value chain

Acting with an SBTi approved Net Zero target for 2040

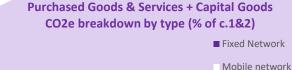


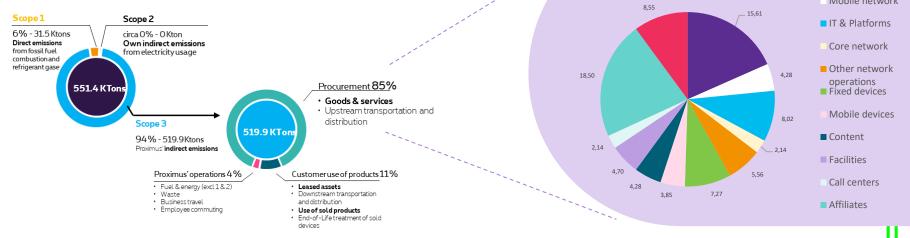




Tackling emissions in our value chain

Zooming in on Proximus it becomes clear that more will be needed with Scope 3 as main challenge, mainly linked to what we buy and the usage of our products





Proximus Group CO2 footprint in 2022





Tackling emissions in our value chain

Champion Change Internally

Transform the way we operate from a business perspective to steer for carbon avoidance enacting circularity by design

Accelerate Change Externally

Engage with suppliers to enable the transformation by setting targets, reducing their own footprint and providing accurate data

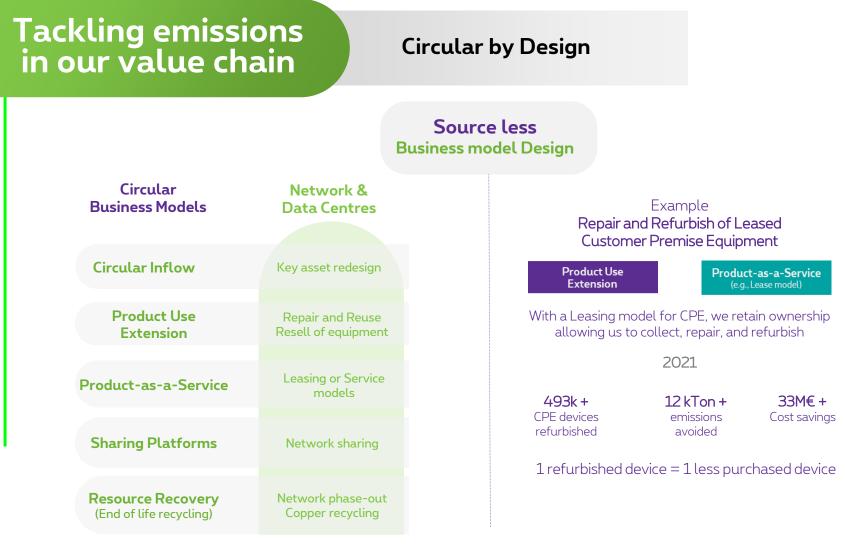
Source less Business model Design

Source right Product & Service Design









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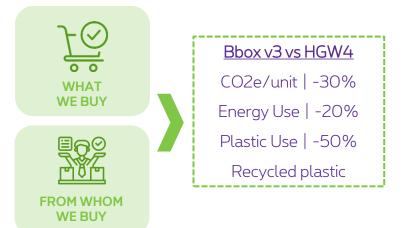


Tackling emissions in our value chain

Circular by Design

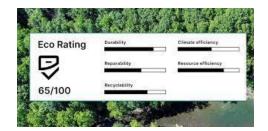
Source Right Product & Service Design

Include environmental criteria in product requirements and supplier evaluations



Enable comparability & standardization of products and suppliers through collaboration with industry associations





Customer nudging

when they buy green we buy green



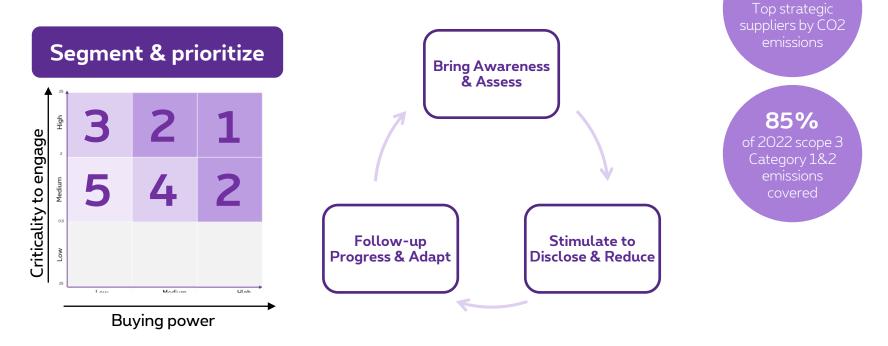


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Tackling emissions in our value chain

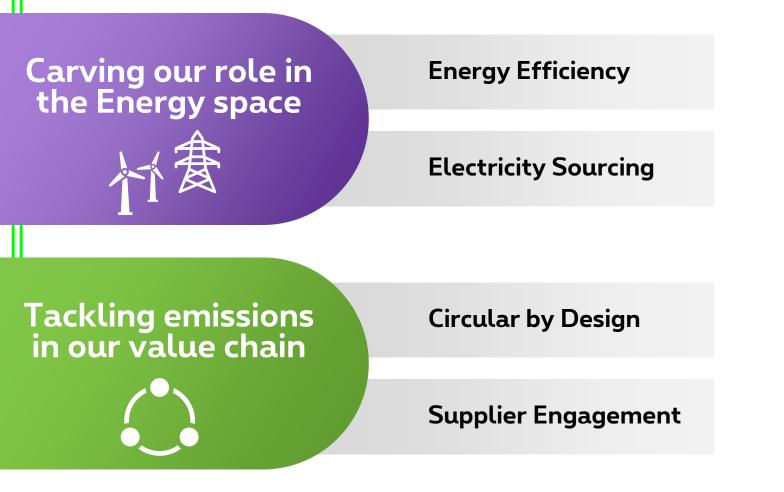
Supplier Engagement

We enable their transformation leading to setting targets, reducing their own footprint and providing accurate data



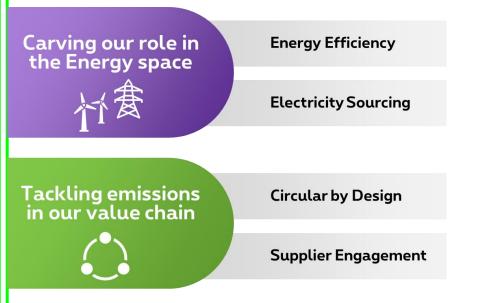








proximus



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