

Leveraging sustainability to create value propositions.

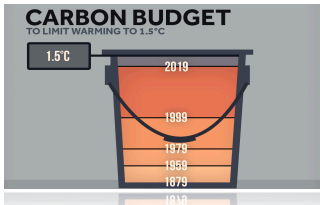
Measure | Act | Reduce



Quantum Six's Green Banking Benchmark using GoCodeGreen's ClimateTech

Brief responses to the Big 5 Questions. THE FAST FACTS:

Q1. Why the urgency?



IPCC Global Carbon Budget:

- 2020: 500 Gt CO₂ before warming exceeds the 1.5c topping point
- 2022: since 2020 we have emitted between 80-100 Gt CO₂

“We have less than 10 years before we exhaust our global carbon budget”

Intergovernmental Panel on Climate Change (IPCC), Feb 2022

Q2. Why does Digital & ICT matter?

“Over 90% of a bank’s environmental impact can lie in the value chain - upstream in the supply chain or downstream in product use”

Source: CarbonTrust

Scale of Technology related emissions in Value Chain?

Calculations completed by the Carbon Disclosure Project (CDP) on Product Carbon Footprints (PCF) based on carbon intensity (CI) analysis across 866 products from 145 companies, across 30 industries and 28 countries revealed ...

... 29%
of Scope 3 emissions were ICT related

Sources: 'Carbon Emissions Embodied in Value Chains', Scientific Reports, NatureSearch, 2020 and Carbon Disclosure Project

Q3. Net-Zero vs. Carbon Neutral: What's the difference?

Net-Zero

An Organisation Level Commitment

Carbon Neutral

A Product or Service Target

“The Net-Zero Standard covers a company’s entire value chain emissions, including those produced by their own processes (scope 1), purchased electricity and heat (scope 2), and generated by suppliers and end-users (scope 3)...companies will require deep decarbonisation of 90-95% to reach Net-Zero under the Standard.”

Source: Science Based Targets initiative (SBTi)

“The boundary of carbon neutrality for an organisation only requires scope 1 and 2, with scope 3 emissions encouraged... a carbon neutral claim can refer to a specific product or service instead of encompassing the whole organisation in the case of Net-Zero.” Source: CarbonTrust

Q4. What is the GHG Protocol ICT Sector Guidance?



The ICT Sector Guidance provides guidance and accounting methods for the calculation of GHG (greenhouse gas) emissions for ICT (Information and Communication Technology) products with a focus on ICT services. The ICT Sector Guidance is built on, and in conformance with, the GHG Protocol Product Standard. It forms the basis for Quantum Six’s green banking benchmark (powered GoCodeGreen’s ClimateTech).

Q5. How green is cloud computing?

Clean hybrid cloud is definitely part of the answer. In most cases, hybrid cloud is greener than solely using traditional data centres. But just how green depends on the details of each individual deployment. The challenge with hybrid cloud is that each deployment is different and includes a different mix of technologies. Total carbon footprint is based on a complex array of factors that determine how much power is needed.

Our findings:

Cloud migration opportunities
35-55%
Cloud Derived Efficiencies

Software based opportunities
55-80%
Software Derived Efficiencies



As seen in



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Architecting the right platform for Temenos can help your clients achieve their net-zero commitments.

Measure | Act | Reduce

Why

We live in a digital world. The carbon impacts are significant, for example:



“Bitcoin production generates 22 million tonnes of CO2e per year, and producing a single Bitcoin creates 290kg of CO2e.”

Source: Reuters | University of Cambridge

= 1bn ▲



“Streaming a viral song on Spotify (‘Drivers License’ by Olivia Rodrigo) created 4,180 tonnes of CO2e in a year.”

Source: The New Statesmen

= 199,000 ▲



“A single machine learning training cycle using Transformer, on 1 GPU creates 202.8 tonnes of CO2e.”

Source: MIT Tech Review | University of Massachusetts

= 9,567 ▲

Decarbonising creates topical and tangible sales opportunities

Banks are undertaking digital transformations or delivering digital solutions. Understanding the carbon impact of these digital products and services is critical as part of their carbon reduction planning. Quantum Six’s Green banking benchmark helps Temenos sellers change the conversation to one of cost per carbon transaction or to carbon cost for the banking value chain. When coupled to IBM’s hybrid cloud offerings, Temenos, IBM & Quantum Six (using GoCodeGreen’s ClimateTech) can deliver more together, promoting new licence sale or upgrade opportunities by leading with a sustainability agenda.

Combining Temenos’ banking heritage and breadth of offering with IBM’s strength in ICT and services underpinned by Quantum Six’s ESG domain knowledge provides a compelling powerful proposition for clients and prospects.

How

Quantum Six, IBM & GoCodeGreen can help your journey toward carbon neutrality, PAS 2060 and Net-Zero

GoCodeGreen have codified the Greenhouse Gas (GHG) Protocol ICT Sector Guidance which allows their tooling and platform to provide a carbon emission calculation based on the product lifecycle stages covering Scopes 1, 2 and 3 for any type of software product. These methods and calculations have been independently assessed for accuracy and are supported by the Quantum Six eco-advisory team as part of their Green Banking Benchmark to help clients embed sustainability recommendations on the journey to carbon neutrality or net-zero.

Why does this matter for Temenos? Using IBM to bring the latest ICT architectures to the fore, the Green Banking Benchmark will be used to assess the value of running Temenos on these architectures and the value this will derive. By value we mean value to prospective and existing Temenos clients, and of course value/benefit to the environment.

The results speak for themselves!!

Results

Based on completed assessments, across five industry sectors, twenty companies and thirty digital products we identified:

Up to **-56%**

Production related carbon reduction

Up to **-26%**

Usage related carbon Reduction

Based on IBM assessments of their banking technology platforms their modern technology stacks deliver the following:

33% - 52%

Energy consumption saving for the same workload

*Results will vary depending on the platform used.



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