

IBM Consulting

A glowing blue cube is centered in the image. It has two cloud icons on its visible sides, each composed of a pixelated pattern. The cube is surrounded by a grid of thin blue lines. The background is a dark, textured surface resembling a circuit board or a dense array of microchips.

G-Cloud 15 IBM - Energy Management and Optimisation Services

Service Definition Document

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IBM Energy Management and Optimisation Services

Service Overview

Features

- Decarbonisation strategy and roadmap
- Business ecosystem development and innovation
- Energy management, efficiency and conservation
- Enterprise emissions management
- Responsible Computing and Green IT
- Carbon taxonomy and footprinting
- Triggers and Alerts based on complex IoT rules
- Climate and sustainability policy and regulation
- Alignment with Sustainable Development Goal (SDG) and Task Force Climate-related Financial Disclosures (TCFD)
- Smarter buildings
- Smarter waste, water and recycling

Benefits

- Compliance with latest policy, regulatory and market developments
- Optimise energy use and operational performance
- Calculate, record, and analyse carbon emissions across all operations
- Monitor impact alongside business objectives and implement improvements which become embedded in new ways of working
- Holistic view of impacts and dependencies, including supply chain
- Enable stakeholders to make choices based on sustainability dimensions

Key Differentiators

- IBM can engage across the full lifecycle from strategic development, through to Journey to Net Zero
- IBM exponential and innovation technologies: Advanced Analytics, Internet of Things, Blockchain, Artificial Intelligence, Hybrid multi- cloud, geo-spatial data layering
- Long history working with major UK central government departments
- Security cleared professionals across the full lifecycle

IBM Sustainability, Climate and Energy Transition Services

Addressing Business Needs

We work in partnership with you to understand and address your needs and deliver the optimal solutions for your organisation.

Data Capture

IBM provides flexible solutions to capture and store data from multiple sources:

- Real-time energy data (e.g. half-hourly)
- Supplier Invoices
- Spreadsheet for bulk data loading
- Indoor / Outdoor weather data
- climate control equipment data

Carbon Emissions

- Calculation of carbon emissions across multiple geographies and suppliers.
- Includes comprehensive reporting on Scope 1, 2 and 3 emissions.
- Compare carbon reporting performance across the estate.

Certifications

- Measure certifications from Building level to organisational level.
- Capture detailed scoring for certifications such as BREEAM.
- Compare performance across the estate.

Responsible Computing / Green IT

We provide consulting and technologies to optimise infrastructure and computing with AI at the core to enable more efficient, less energy-intensive IT and drive social impact.

Opportunity Analysis

IBM provides solutions that evaluate opportunities to reduce energy consumption and carbon emissions. Intuitive tools can help you to identify environmental initiatives and then prioritise them based on environmental benefit (e.g. energy use or carbon emissions) and financial savings (simple payback or net present value).

Generative AI

Generative AI can help to move beyond compliance and embed sustainability across your organisation. Inadequate data is the main challenge across compliance, optimization and embedding of sustainability. We provide consulting and technologies to embed Generative AI into your organisation and accelerate your sustainability journey.

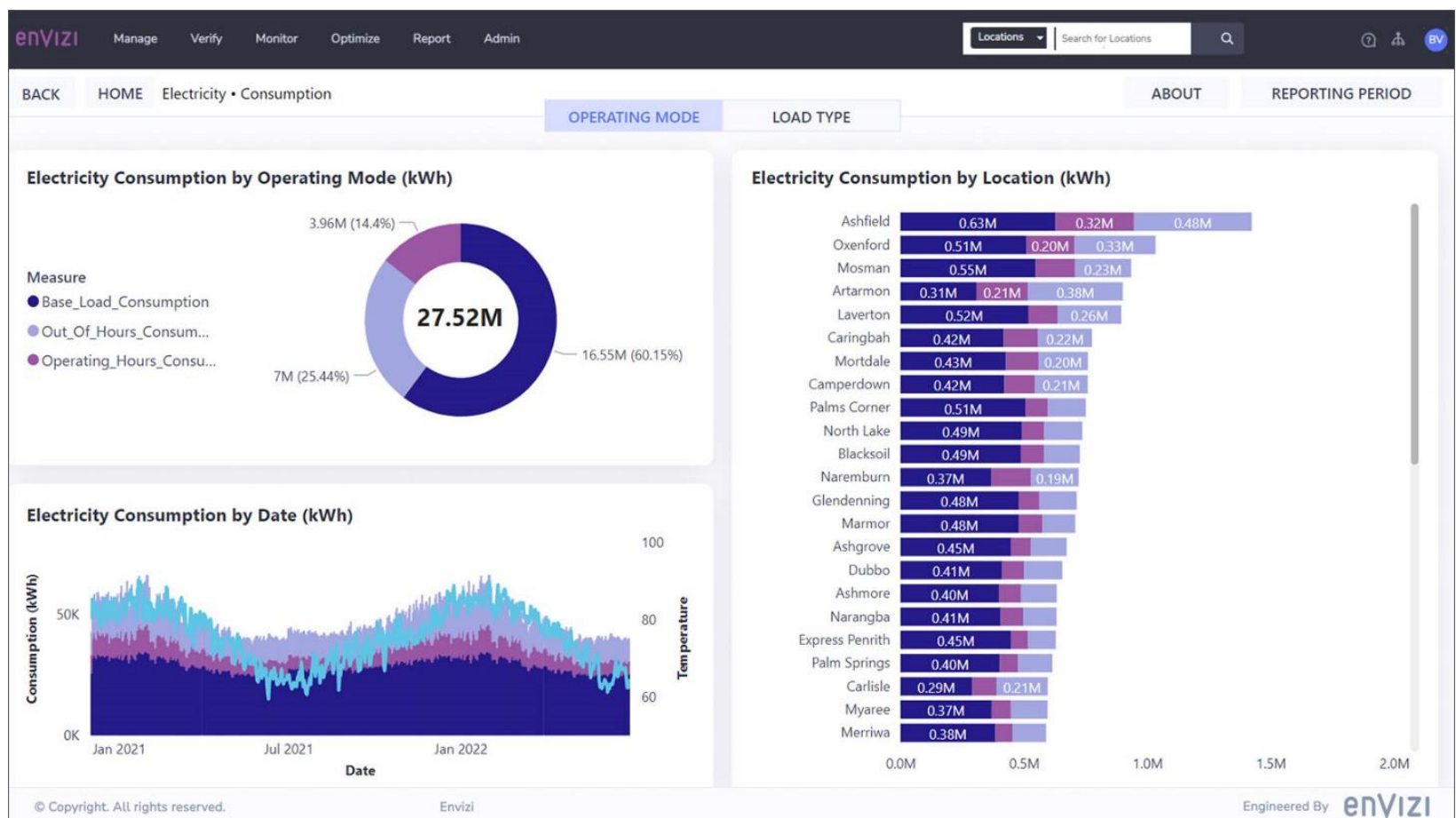
Big Data & Optimisation

Big data analytic and optimization rules can be implemented to identify operating anomalies. Here, our solutions can analyse information across multiple data sets, whether they be real-time data, monthly data or reference data.

Rules and alerts can be set-up to trigger notifications to engineers and environmental managers when any rule is broken.

IBM Envizi ESG Suite is SaaS that consolidates enterprise ESG data for analysis and reporting. We remove the challenges and complexity of ESG data collection, analysis and reporting so you can harness the power of data to fast-track your success. Envizi's suite of cloud-based, ESG software products work together in three ways to simplify your ESG reporting:

- 1: Build a data foundation: A single system of record that delivers auditable, robust ESG data and GHG calculations.
- 2: Streamline reporting and disclosure: Flexible reporting tools to meet internal and external requirements for comprehensive, and simplified ESG reporting.
- 3: Accelerate decarbonization: Analytical tools identifying opportunities to reach low carbon goals and track performance against commitments.



IBM Sustainability, Climate and Energy Transition Services

Service Definition

We provide full energy management and optimisation services, enabling you to benefit from strategic development, data analytics and systems implementation. Our solutions will facilitate a reduction to energy consumption and associated costs.

IBM Sustainability, Climate and Energy Transition Services provides a full range of services, including: Decarbonisation strategy and roadmap

- Access to specialist expertise to assess, advise, plan, manage and report on energy management and optimisation.
- Tools to profile your energy consumption and carbon footprint across multiple geographies.
- IBM's Digital Change Services: focus on new revenue and market activation to address industry disruption; explore new ways of work using better insights and responsive operations; embrace constant business model innovation and create value ecosystems.
- Access to IBM Exponential and innovative technologies, which are key levers to aid the
- transition agenda, reduce climate risk, increase resilience and reduce carbon emissions.
- Proven methods that scale innovation to the pace of your business: e.g. Digital Reinvention, IBM Design Thinking and IBM Garage Methodology.

Full Lifecycle

We have full lifecycle experience. Clients can engage with us to deliver the full lifecycle from end to end or just for the parts where help is needed. We offer services ranging from strategy and operating model definitions through cloud platform build, migration, application development to support and operations.

IBM Sustainability, Climate and Energy Transition Services

IBM Approach

We bring the benefit to you of having worked with the world's largest organisations, transforming complex, critical services.

Our approach is based on robust methods, processes and personalised engagement.

We focus on your business needs and developing trusted long-term relationships, underpinned by industry-leading experience and capabilities. We want you to get the best out of every engagement and to deliver outcomes that matter for your organisation.

Our approach is tailored to your needs and flexible to support your specific requirements. We offer established Sustainability and Climate capabilities that align with your existing operations, and linking to regulatory requirements, industry standards and reporting standards.

We bring specific skills and attitudes including:

- Proven delivery track record working in complex environments
- Access to specialists who understand the lessons and risks for transformation
- Being able to advise, support and transfer knowledge with your teams
- Implementing strong governance, defined collaboratively within the context of robust methods and processes
- Bringing an integrated and controlled planning approach



IBM Sustainability, Climate and Energy Transition Services

IBM Approach

We can bring our full IBM Garage Method for, or specific elements, to help accelerate your transformation:

The IBM Garage Methodology combines an open, seamless set of proven agile practices with a human-centric, outcome-first approach to quickly guide solutions from idea to implementation to scale.

In Complex Delivery, the ability to work effectively with client teams, suppliers and other stakeholders makes a difference to the ability to achieve success. This is where the garage principles drive results. Client and IBM experts work side-by-side with your stakeholders to create solutions, execute change and deliver value.

Together we:

- Co-create the future – Bringing together the right people to define the business goals, solution and plan – this “co-create” approach establishes buy-in and achieves greater certainty of outcomes.
- Co-execute – Following a deliver approach that is based on focussing on what matters most, delivering benefits early, iterating change and incorporating feedback.
- Co-operate – Establishing full-scale delivery programmes that meet your change objectives and support the operation of business-critical enterprise services.

IBM Garage Method for Cloud
More information on the IBM Garage Method for Cloud is available at ibm.com/garage

The principles of how we think and act in our delivery to clients include:

- Building long-term client relationships based on innovation, trust and service excellence
- Using Design Thinking and agile approaches to help frame and execute our client’s change programs
- Infusing cognition and emerging technologies into our clients’ enterprises and core processes
- Exploiting hybrid multi-cloud-based solutions to underpin evolving client processes
- Developing and deploying world-class talent
- Using consistent, modern methods and tools – constantly reviewing and refining to accelerate the value we deliver
- The ability to thrive and succeed in engagements driven by globally dispersed, multi-disciplined teams using our suite of collaboration tools is at our core.

IBMs Journey: Charting the path to a sustainable

For IBM, sustainability and climate are top issues. IBM is committed to a 40% CO2 reduction by 2025.

IBM is committed to Sustainability and Climate leadership in all business activities, from its operations to the design of its products and use of its technology. IBM's corporate policy on environmental affairs, first issued in 1971, is supported by the company's global environmental management system, which is the key element of the company's efforts to achieve results consistent with environmental leadership and ensures the company is vigilant in protecting the environment across all of its operations worldwide.

We have tackled some of the most pressing climate challenges for 50 years



Going forward we need a new approach to tackling Sustainability

Design for sustainability

Advance decarbonisation, GHG reduction and net zero

Climate and energy transition risk management

Cross industry open and collaborative systems & processes

IBM is best placed to help our industry in the journey to net zero

Committed Roadmap
Our CEO commitment to 40% reduction in our CO2 in just 5 years

The right relationships
Across multiple Industries, geos and governments

World leading R&D
to transform our use of carbon, e.g. VolCat

Analytics, Architecture, Assets
Enterprise approach to solving complex problems

Industry Platforms
Cross industry value chains to create new ways to collaborate

Strong balance sheet
For long term monitisation of industry platforms

Supporting Government

We help government organisations in the UK and worldwide deliver and transform essential public services – our teams are passionate and proud about helping you to make a real difference to people’s lives.

Government Services Supported by IBM

	Defence and Intelligence
	Public Safety and Policing
	Healthcare
	Life Sciences
	Tax and Revenue Management
	National Infrastructure
	Social Care
	Education
	Works and Pensions

The problems we solve for clients are complex and cannot be satisfied with technology alone. They require a partner that can also offer deep industry expertise and a relationship of trust.

IBM combines the portfolio, people and sense of purpose necessary to meet today’s enterprise demands. Every day, we support and manage complex delivery for government clients where the impact of delivery has wide-reaching impact on citizens and national services.

We bring access to the industry experience, insight and technology capability to deliver and operate secure, scalable, optimised and available services for government.

We support you by bringing:

- Industry expertise – Professionals who understand and are passionate about delivering quality public services and can bring industry insights and apply innovation to your business processes
- Trust and security capabilities – Protecting valuable data and insights and deploying new innovations responsibly
- Innovative technology – Expertise in areas such as AI, blockchain, 5G, Automation, IoT, cybersecurity and quantum, delivered in a Hybrid Cloud environment
- Experienced Services professionals to support strategy, innovation and deliver transformation and change to processes, applications, and cloud infrastructure
- Global alliances – valuable partnerships with the world’s leading vendors

