Data-Driven Climate for Change

How DATAWiSE Supports the Energy Efficiency & Green Transition

Data as Energy Transition Enabler

Energy sustainability and environmental degradation are increasingly urgent societal challenges, for Europe and beyond.

One of the pathways at the heart of the EU climate action is significantly improving energy performance and energy efficiency of buildings.

A. 40% of energy consumption is attributable to buildings.
B. 85% of the buildings were build before 2000.
C. 75% of those have poor energy performance.
D. 80% of the energy used in homes is for heating, cooking and hot water.

The Member States have committed to modernise the European building stock and as a result substantially reducing energy bills, contributing to energy efficiency (16% by 2030 compared to 2020, and 22% by 2035), while achieving 60% zero-emission and decarbonised building stock by 2030 (compared to 2015), and 100% by 2050.

These are not long-term objectives that can pushed into the future. These are commitments one needs to act on, now.

Data has been identified as one of the key drivers of delivering on these energy performance and energy efficiency of buildings commitments. Access to high-quality readily available data enable significant improvements by understanding energy consumption patterns, identify inefficiencies of and in buildings and in use, optimise operations, and support better energy-related decisions.

So, the climate for change is clear and present. Now we need to drive it. One of the key enablers to do so, is data.

Data as Key Strategic Asset & Means

Europe's ambition to achieve a climate-neutral and energy-efficient building stock is increasingly being translated into concrete policy action.

Another milestone was reached recently; as per 30 May 2026 the updated and upgraded Energy Performance of Buildings Directive (EPBD) is now applicable across the EU. The new framework supports the commitment of Member States in tailoring national building renovation plans with a focus on decarbonisation, modernisation, digitalisation and financial and technical assistance.

Together with the Energy Efficiency Directive, the revised EPBD embeds the 'Energy Efficiency First' principle into the European regulatory framework. This principle aims to lower energy costs for both citizens and businesses. One of the key enablers of this transition is access to high-quality, interoperable data.

A key example comes from the data-empowerment in the new Article 16 EPBD, making building data accessible and available by granting building owners, tenants respectively managers the game-changing right to directly access data generated by building systems. Access to this data shifts buildings from being passive energy consumers to active, data-driven assets. Such data may also be shared with third parties, subject to certain conditions and safeguards.

Overall, by making operational data available, businesses can identify inefficiencies, reduce operating costs, improve maintenance planning and thus unlock digital services that create value for local authorities, building owners and occupants alike. Beyond enabling individual business cases, Article 16 reinforces the EU's broader objective of making data more accessible, interoperable, and reusable across sectors.

The DATAWiSE Approach

Collecting high-quality building data is only the beginning. The next steps come from transforming that data into actionable insights that drive better decisions. As organisations seek to balance sustainability objectives with business performance, intelligent building management is becoming an increasingly important competitive advantage.

DATAWiSE addresses this challenge by developing and validating advanced building management tools that combine AI with cross-sectoral datasets to optimise building operations. Through integrating and analysing diverse data sources, this approach provides operational insight on more effective and efficient energy management strategies.

Benefits for Every Stakeholder

Data-driven building management has the potential to deliver tangible value across the entire energy ecosystem. Beyond reducing energy consumption, intelligent solutions can lower operational costs, optimise asset performance, improve occupant comfort, and strengthen resilience against fluctuating energy demands. The essence of these benefits lies in the ability to make faster, evidence-based decisions using data.

With this in mind, let us take a closer look at how intelligent solutions can benefit different stakeholders within this energy ecosystem:

1. **Mayor offices, municipalities, local and regional public sector organisations** can leverage insights and leadership, and enable, support and facilitate developments that accelerate their local and regional transitions to feasible and sustainable building development and redevelopment.

2. **Building owners and operators** can enhance property value, improve user-satisfaction, and optimise maintenance and energy performance.

3. **Energy service providers** can develop more tailored services based on actual consumption patterns, which in turn improves user-satisfaction.

DATAWiSE supports creating this landscape as per its unique approach to leveraging the power of data for smarter energy management. By incorporating AI and data into practical energy management solutions, DATAWiSE demonstrates how intelligent building management can contribute to a more sustainable and efficient built environment.

Let Us Begin!

The climate for change is present. Now, the data to enable and otherwise support that climate for change is readily available, accessible, useable and re-usable as well, to deliver tangible benefits for individuals, local communities and stakeholders, and society at large, supporting the transition towards a smarter, greener and more future-proof Europe.

DATAWiSE, August 2026. Blog by ARTHUR (Arthur's Legal, Strategies & Systems)

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