

# CATALYST

## Achieving Net Zero with Building Technologies



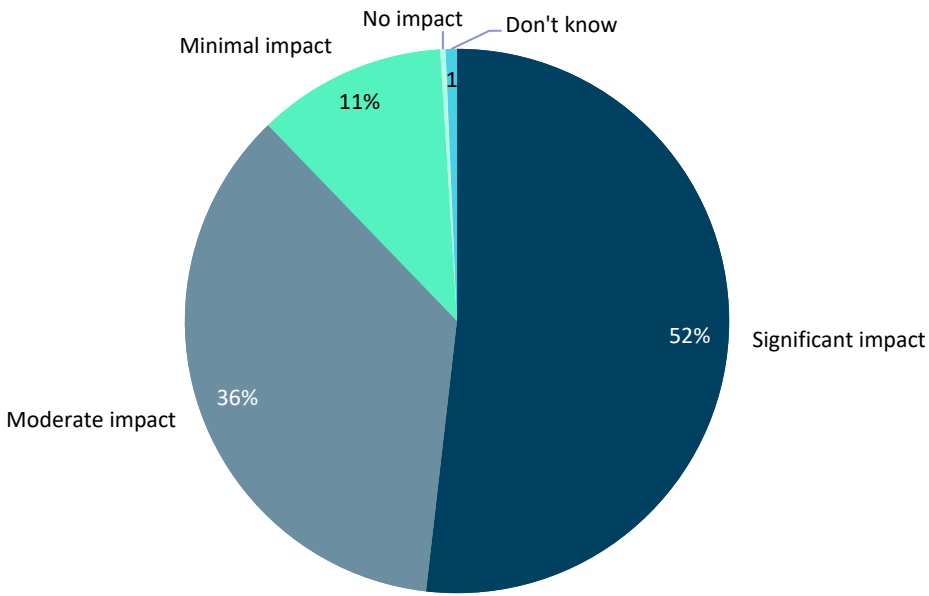
Harry Wilson – Industry Analyst, Verdantix



*“CO<sub>2</sub> emissions from building operations have reached an all-time high of around 10GtCO<sub>2</sub>, around a 5% increase from 2020 and 2% higher than the previous peak in 2019.”*

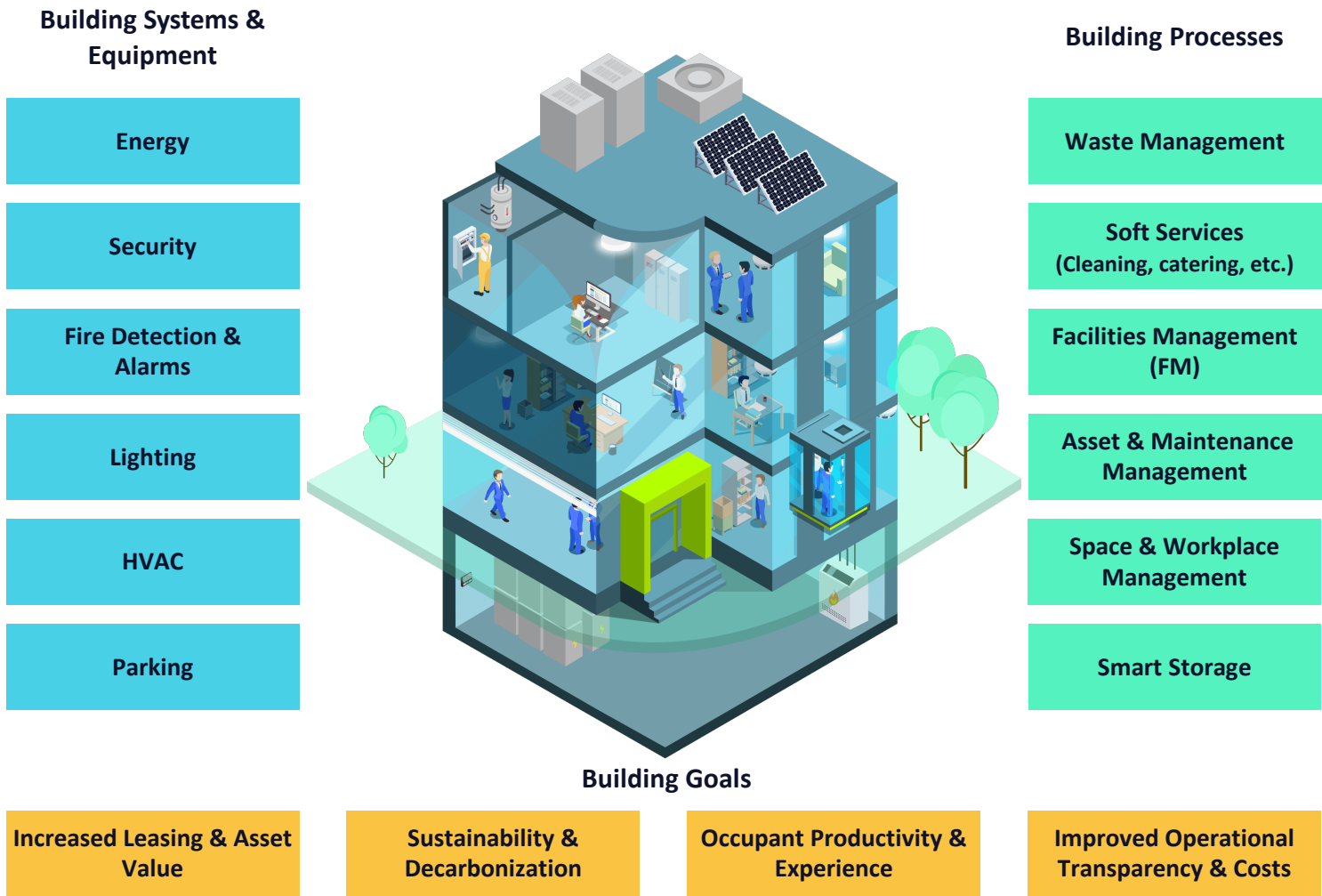
Source: UN Environment Programme, Global Status Report For Buildings and Construction

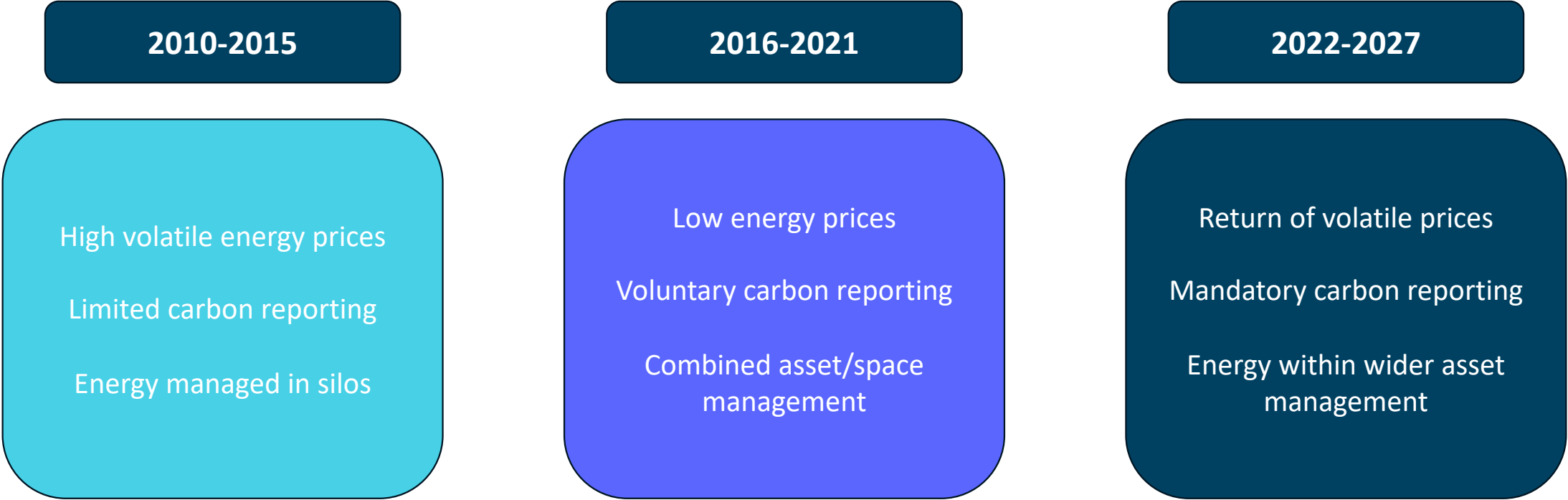
What impact is ESG, Sustainability and Decarbonization having in shaping your real estate strategy?



N=303  
Note: Data labels are rounded to zero decimal places. Data values less than 1 are not shown.  
Source: Verdantix Real Estate Executive Global Corporate Survey 2023

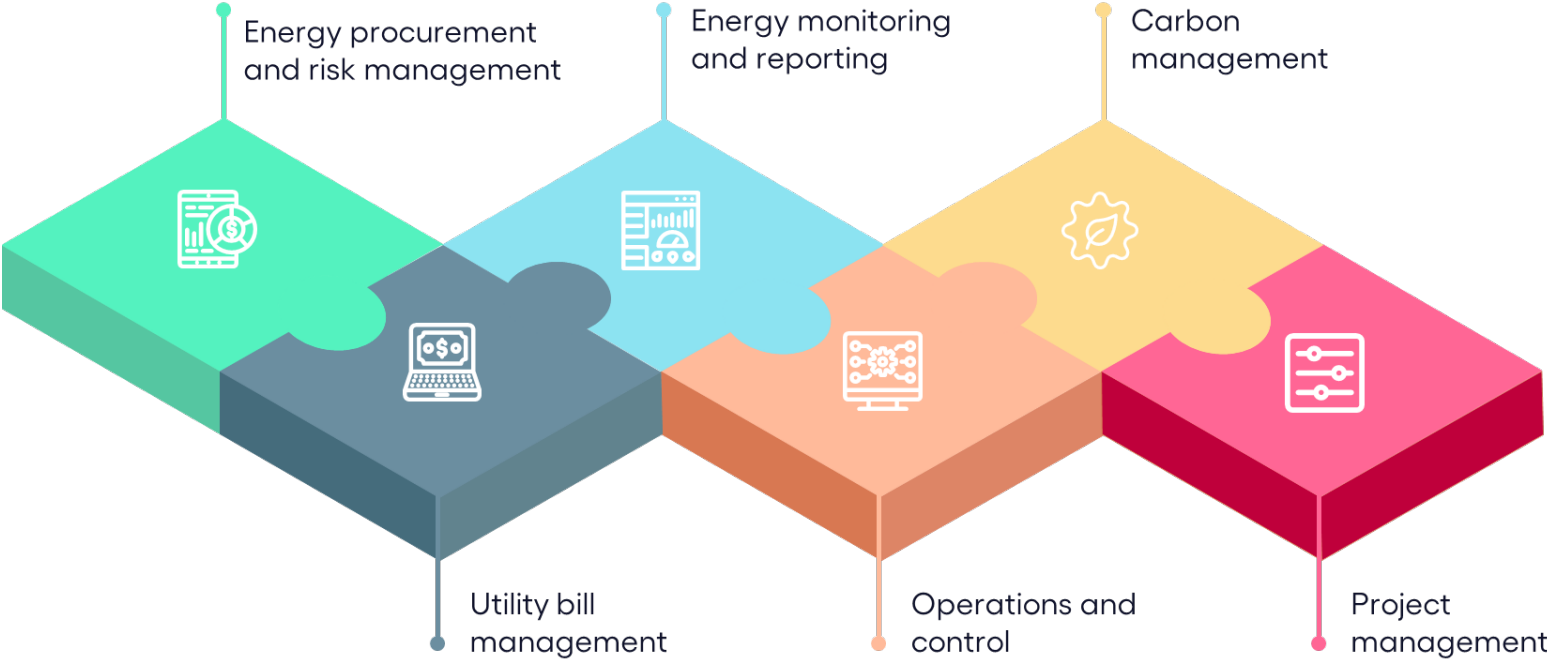
Simplified Overview Of Office Building Systems And Processes





Source: Verdantix Analysis

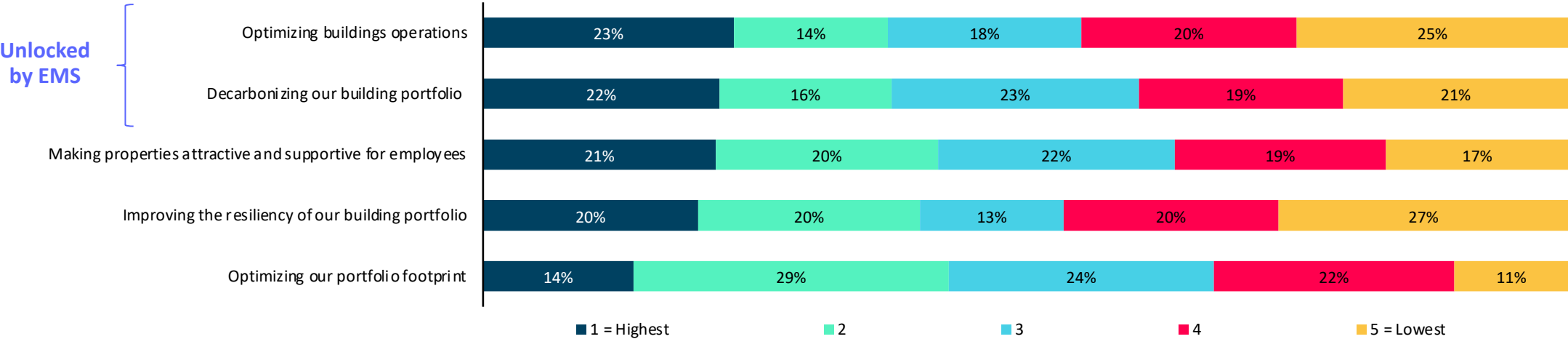




Source: Verdantix Analysis



Rank the following real estate management objectives by importance for your organization over the next three years.



N=303  
Note: Data labels are rounded to zero decimal places.  
Source: Verdantix Global Corporate Survey 2023



### **Volatile Energy Prices**

*"The fluctuating energy prices have made budgeting difficult; we have had to reduce our consumption to limit spend"*

### **Economic Uncertainty**

*"The economic landscape is certainly having an impact on our real estate planning... inflation continues to be a problem"*

### **Net Zero Targets and Commitments**

*"We needed [Vendor's] solution to help us with understanding our energy use across all our sites... decarbonization is a key company priority and we need to know what we consume to reduce it."*

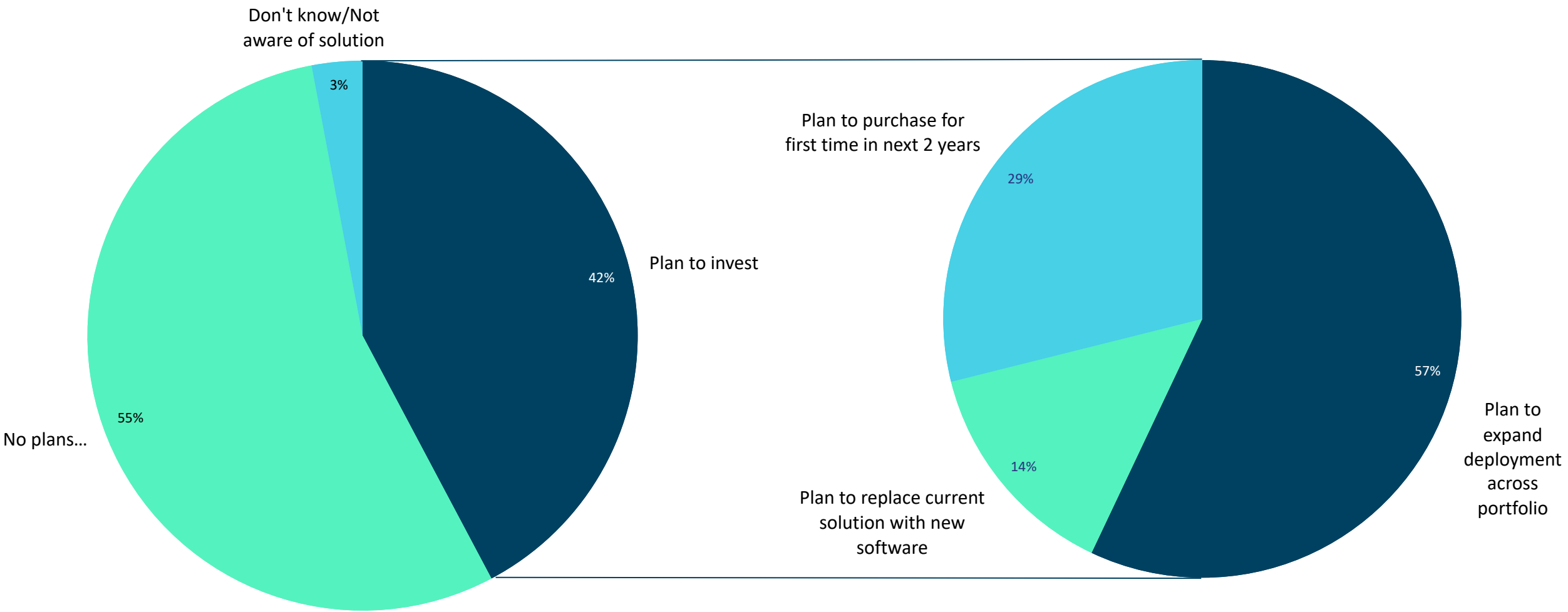
### **Sustainability Pressures**

*"We are required by state legislators to submit energy consumption per building annually... it simply would not be possible without EMS"*

Source: Verdantix Analysis

# Executives Plan To Invest In Energy Management Software

How do you expect your investment in Energy Management Software to change?



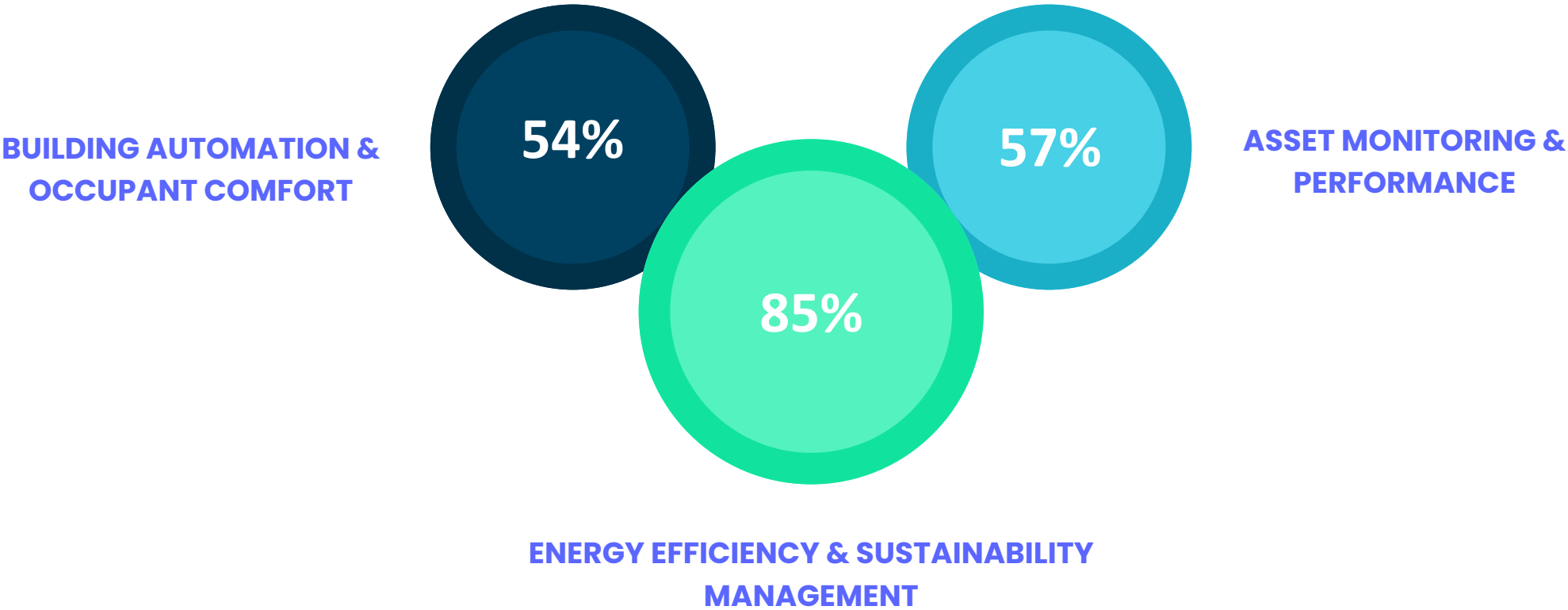
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Note: Data labels are rounded to zero decimal places.  
Source: Verdantix Global Corporate Survey 2023





Executives Plan To Invest In Energy Management Services

To what extent do you expect your use of service providers to increase for the following processes over the next 3 years?

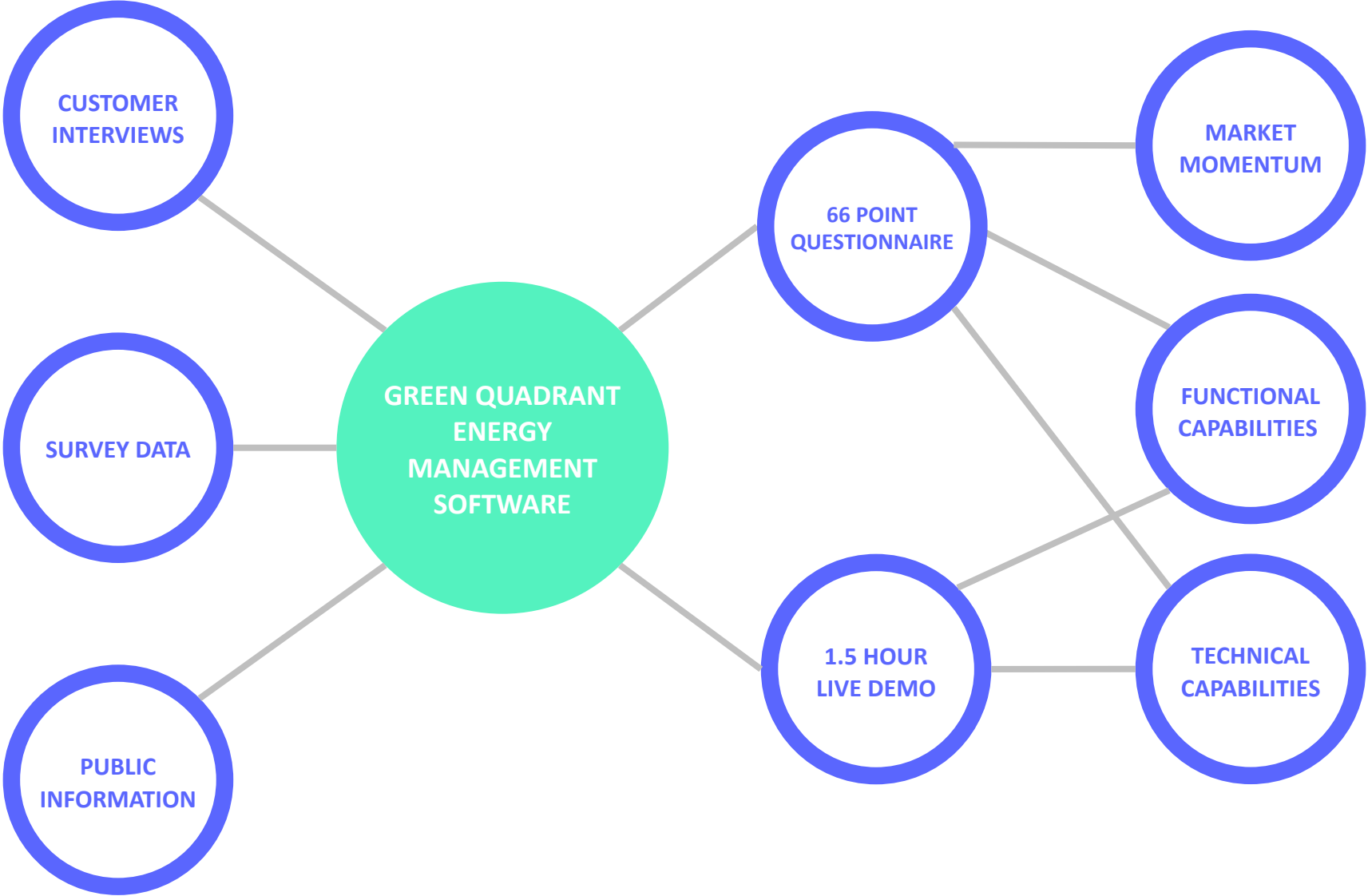


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Note: Data labels are rounded to zero decimal places.  
Source: Verdantix Global Corporate Survey 2023



*“The Verdantix Green Quadrant methodology **provides buyers** of specific products or services with **a structured assessment of comparable offerings** at a certain point in time. The methodology **supports purchase decisions** by identifying potential vendors, structuring relevant purchase criteria through discussions with buyers, and **providing an evidence-based assessment** of the products or services in the market.”*

Source: Verdantix Green Quadrant: Energy Management Software 2023



Source: Verdantix Analysis



Vendor	Solution packages submitted for assessment
ABB	Ability: Asset Manager, Asset and Energy Manager, Energy Manager, Energy Simulator, OPTIMAX Plant Simulator
Accruent	AOEM, ServiceChannel, vx Observe
Bueno	Smart Building Analytics
Carrier	Abound Net Zero Management, The CORTIX™ Platform, The CORTIXone™ Dashboard, The CORTIXedge™ Application, The CORTIXedge™ Cockpit
Enel X	Demand Side Response, Energy Consulting Services, Energy Exchange, Utility Bill Management
EnergyCAP	Bill CAPture, CarbonHub, Smart Analytics, UtilityManagement
Facilio	Facilio Connected Buildings
GridPoint	GridPoint Intelligence
Honeywell	Honeywell Energy Manager, Honeywell Forge Sustainability+ for Buildings: Carbon & Energy Management, N4 Energy Manager
Johnson Controls	OpenBlue Enterprise Manager: Central Utility Plant Optimization, Equipment Performance Essentials, Net Zero Enhanced, Net Zero Essentials
MRI Software	MRI Angus, MRI eSight, MRI Evolution, MRI Forms Intelligence
Nordomatic (Spica)	Ecopilot
Schneider Electric	EcoStruxure: Building Advisor, Building Operation, Microgrid Advisor, Power Advisor, Power Monitoring, Power Operation, Resource Advisor
Siemens	Brightly Energy Manager, Brightly Stream, Building X Energy Manager, Building X Sustainability Manager, Navigator
Spacewell	Spacewell Energy: Analyse, Dashboards, Detect, Optimise

Source: Verdantix Analysis



## Verdantix Green Quadrant: Energy Management Software 2023

- Verdantix identified the **leading 15 vendors of Energy Management Software**, each vendor offering comprehensive functionality to their target market across a range of asset types.
- **Mature, developed market** with hundreds of offerings available to buyers and new entrants continuing to emerge.
- **New innovations in AI, building systems connectors, and carbon emission accounting** have driven EMS to new heights and key functionality such as these have formed part of our assessment criteria.
- **Range of business model offerings** to buyers – hardware, services and software can all come in bundled or discrete packages.



Source: Verdantix Green Quadrant: Energy Management Software 2023

## Verdantix Green Quadrant: Energy Management Software 2023

- **8 vendors** placed in the Leaders quadrant, and these were found to have **end-to-end energy management capabilities**.
- These solutions **scored highest** in terms of market **momentum** and **capabilities**.
- **Functionalities are rich and extensive**, offering buyers a solution which allows them to **manage all aspects of their energy** within their facilities.
- **EnergyCAP** scored firmly within the **Leaders quadrant**, offering comprehensive functionality across those assessed.



Source: Verdantix Green Quadrant: Energy Management Software 2023

*“The firm’s trifecta of the SmartAnalytics (formerly Wattics), UtilityManagement and CarbonHub packages cover **energy, cost and carbon data** and workflows **from the portfolio level down to the asset and device level** in a single platform. EnergyCAP’s **well-rounded capabilities** secure it a **score above 1.0 for all six functionalities assessed.**”*

*“One **standout area is utility bill management**, where it scores a 2.0 due to its automated bill processing and utility provider connection, complemented by an intuitive bill and contract visualization interface. Interaction between SmartAnalytics and UtilityManagement **offers bill validation to users while also enabling energy and cost predictions** thanks to a cross-package ML algorithm.”*

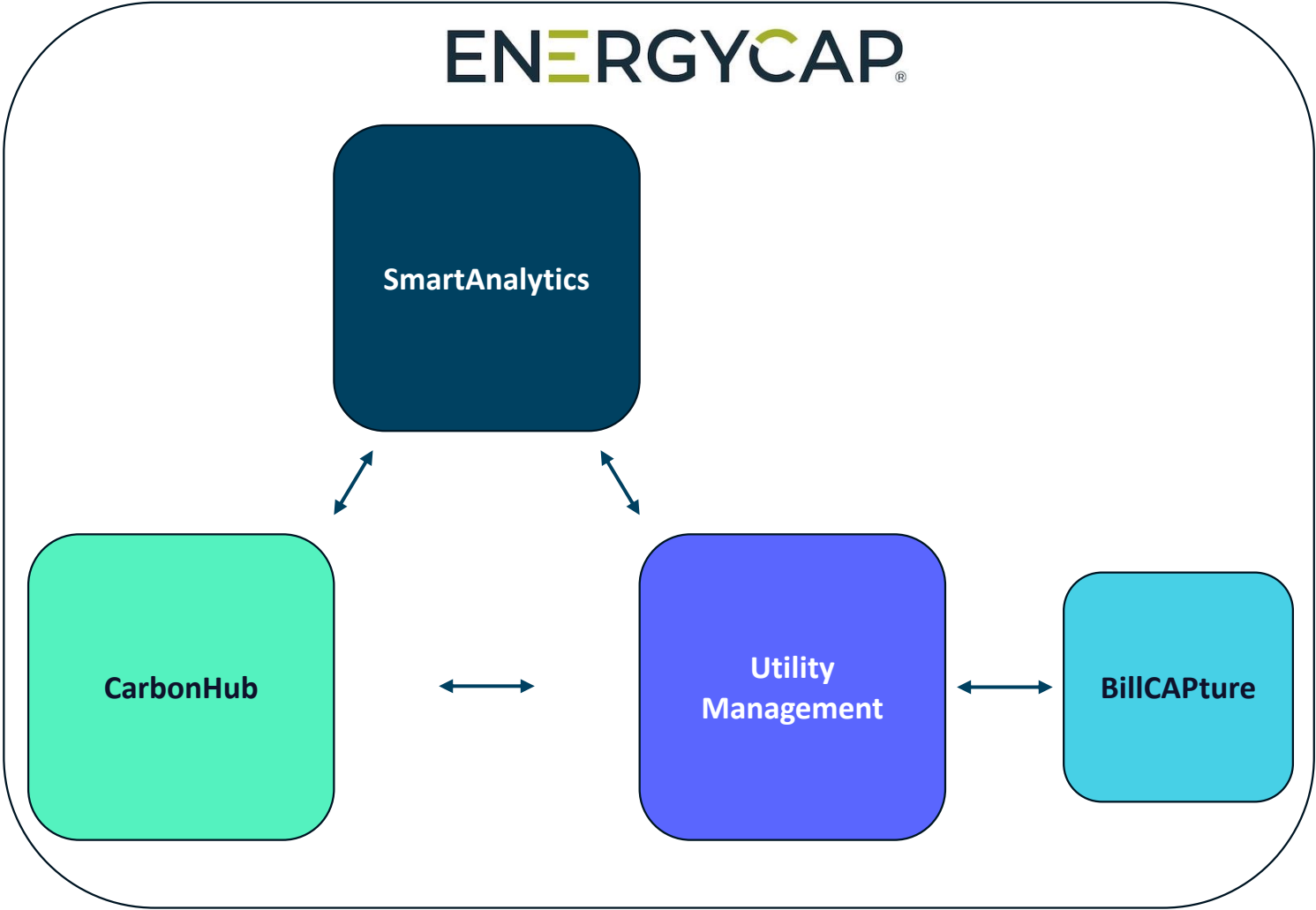
*“The solution achieves the **second highest score for carbon management** thanks to **comprehensive carbon accounting and reporting functionality**, with a global catalogue of emissions factors.”*

Source: Analyst Insight – EnergyCAP Profile  
Verdantix Green Quadrant: Energy Management Software 2023

Functional Capabilities	Scoring
Energy Procurement and Risk Management	1.2
Utility Bill Management	2.0
Energy Monitoring & Reporting	1.7
Operations & Control	1.3
Carbon Management	2.2
Project Management	1.6

3 = Market Leading Capability.  
2 = Strong Capability.  
1 = Comprehensive Capability.  
0 = No Capability.

Green Highlight indicates an above average score.

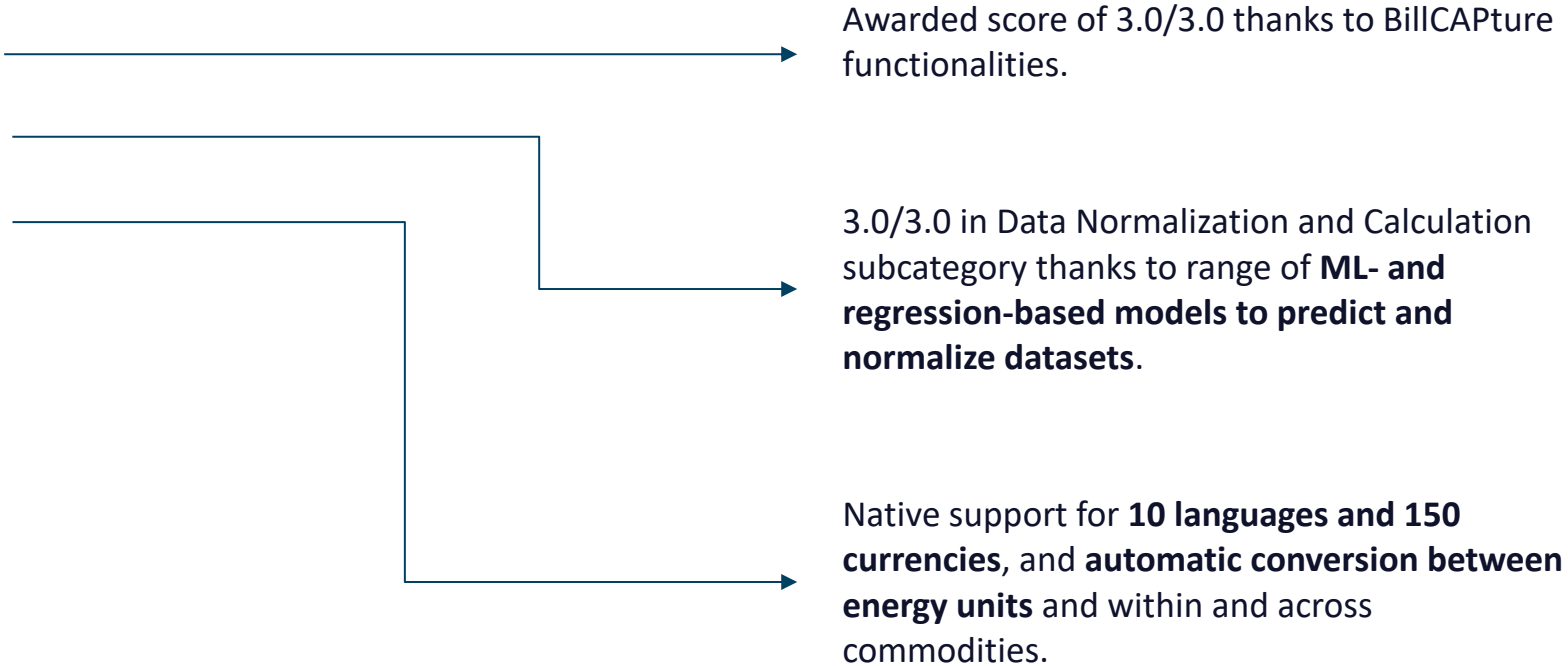




Technical Capabilities	Scoring
Data capture	2.1
Architecture, Data Audit and Scalability	2.4
Internationalisation	2.2
Mobile	1.6
User Interface	1.6

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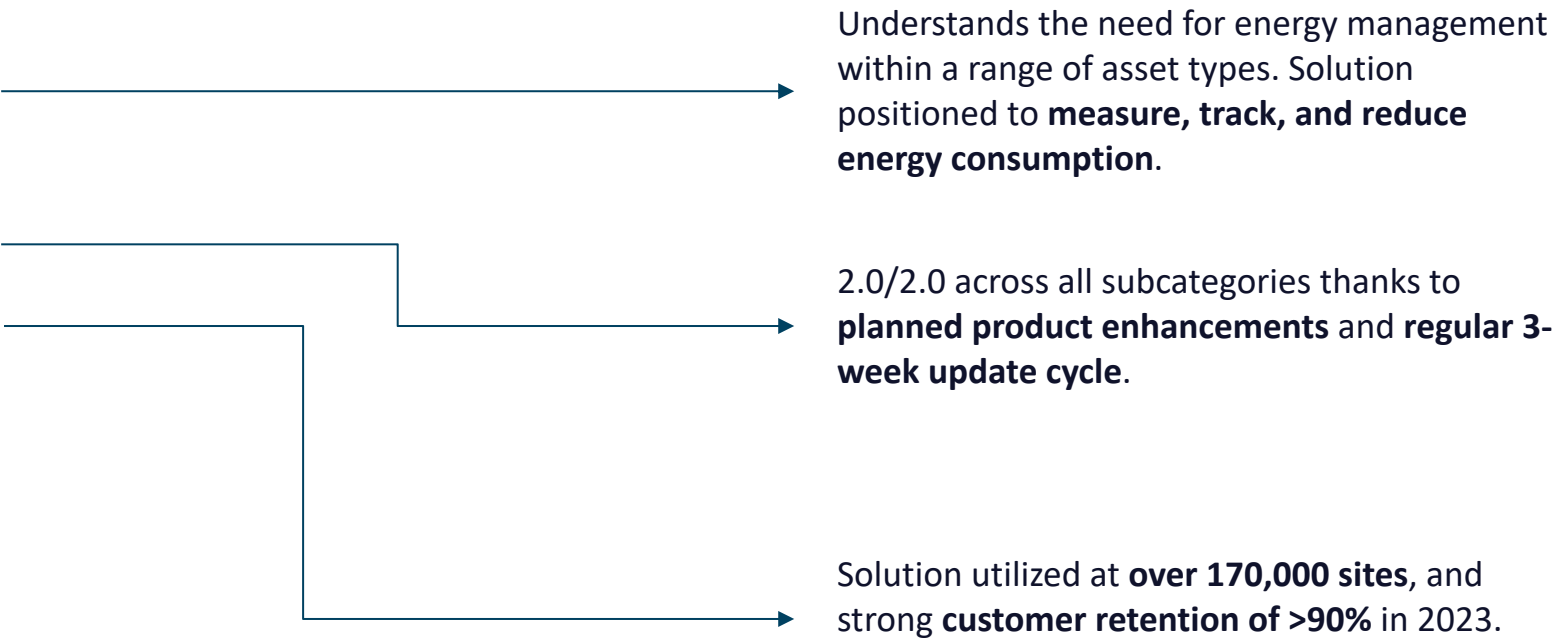
Green Highlight indicates an above average score.



Market Momentum	Scoring
Vision & Commercial Strategy	1.8
Organizational Resources	1.6
Innovation & Product Strategy	2.0
Customers	1.8
Financial Resources	1.6
Customer Success & Adoption	1.3

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