

This presentation was live at:



Smart Buildings

SHOW

18-19 October 2023 • ExCel London

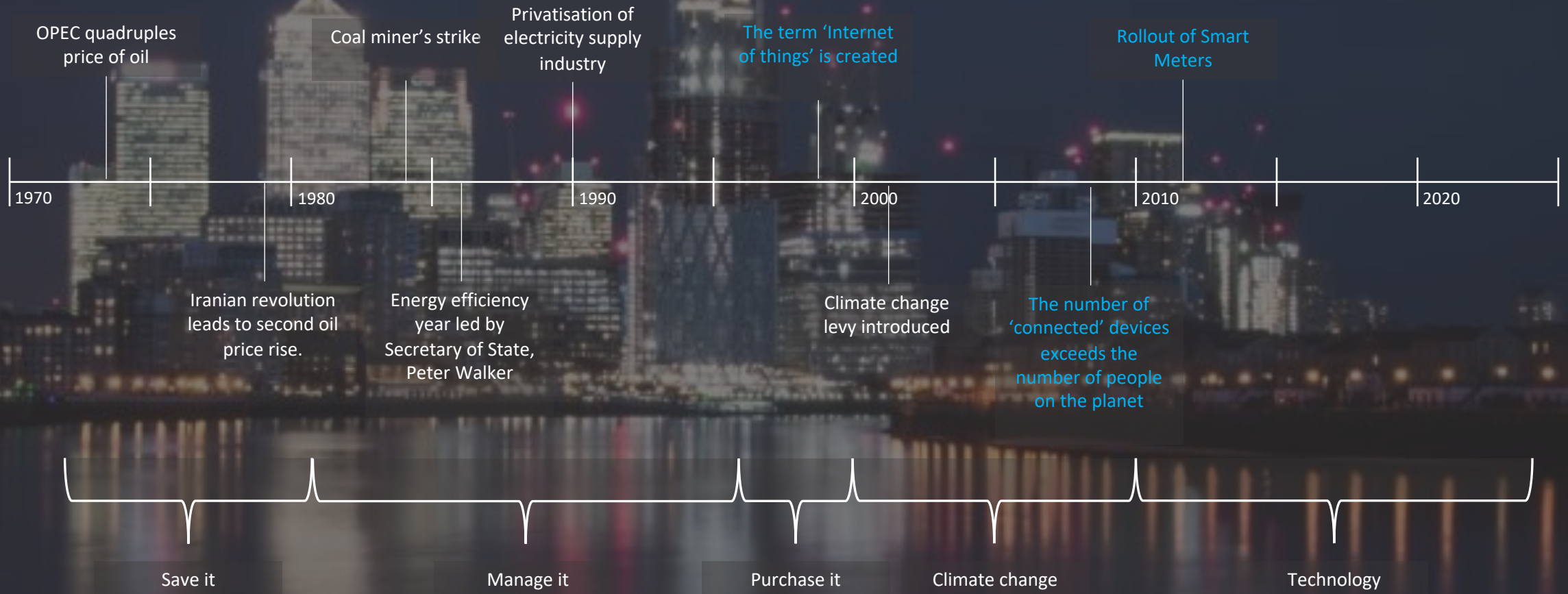
Energy Management: What's next?

Mark Lawrance

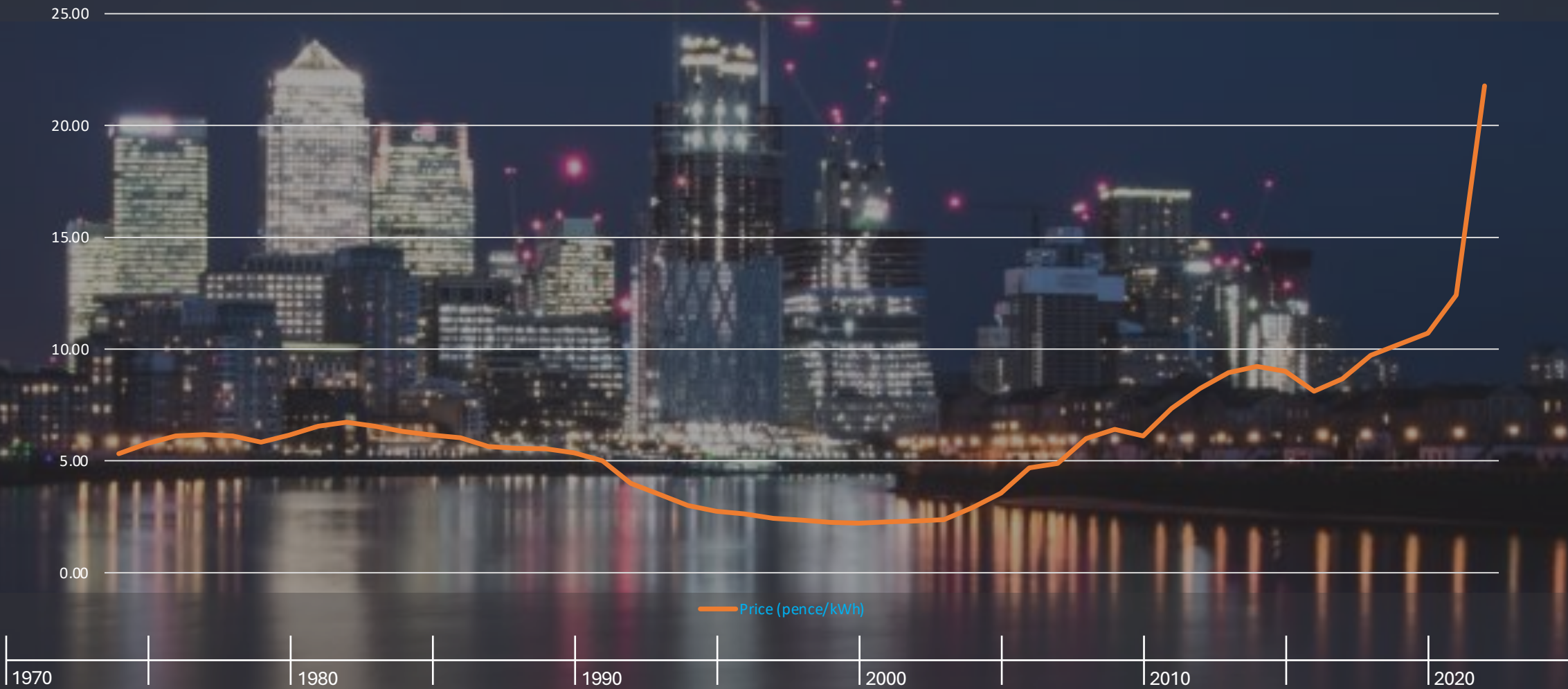
Director, Strategic Accounts

Pressac Communications

A (very) brief history of energy management (and IoT)?

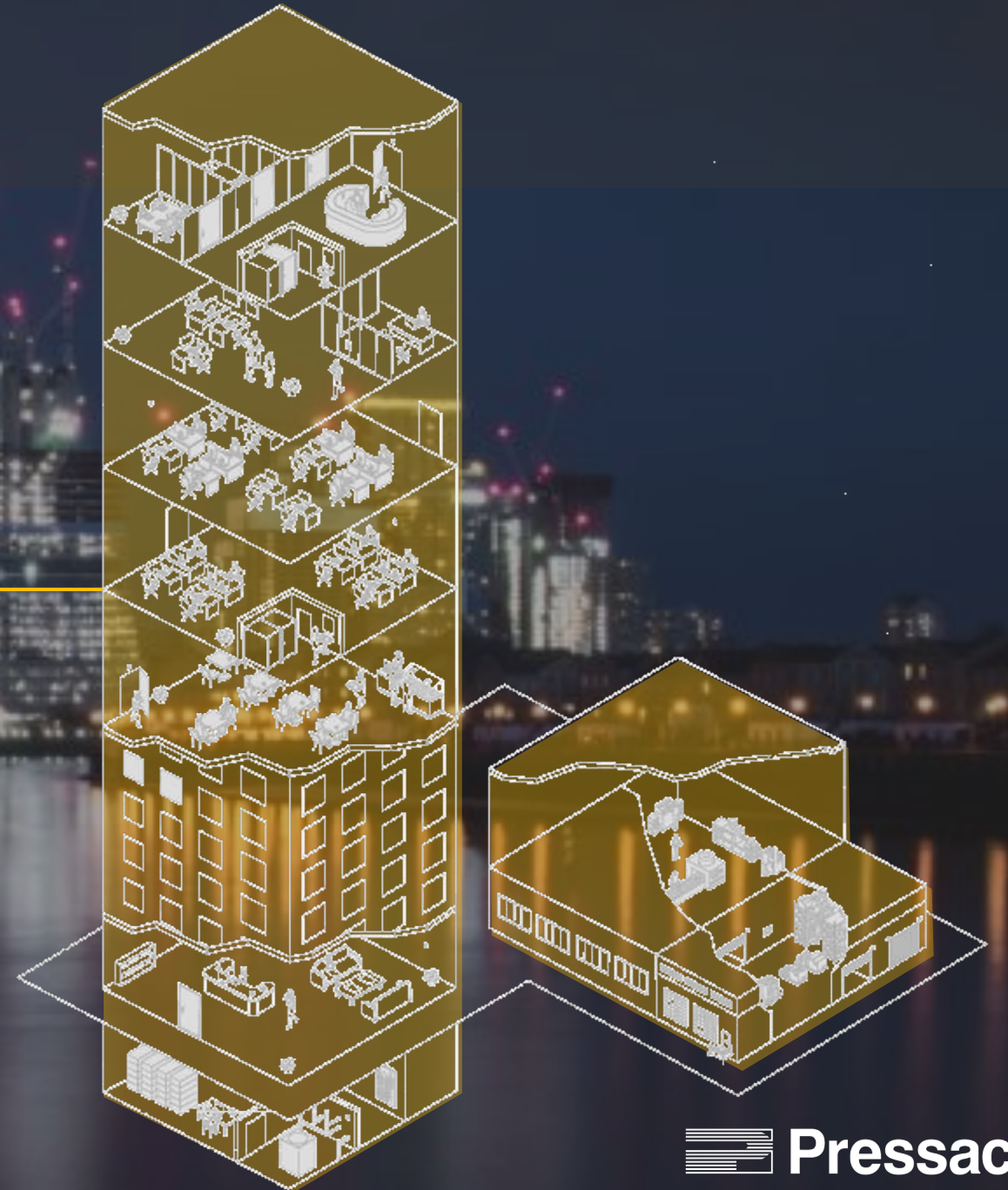


Average price of electricity since the '70s

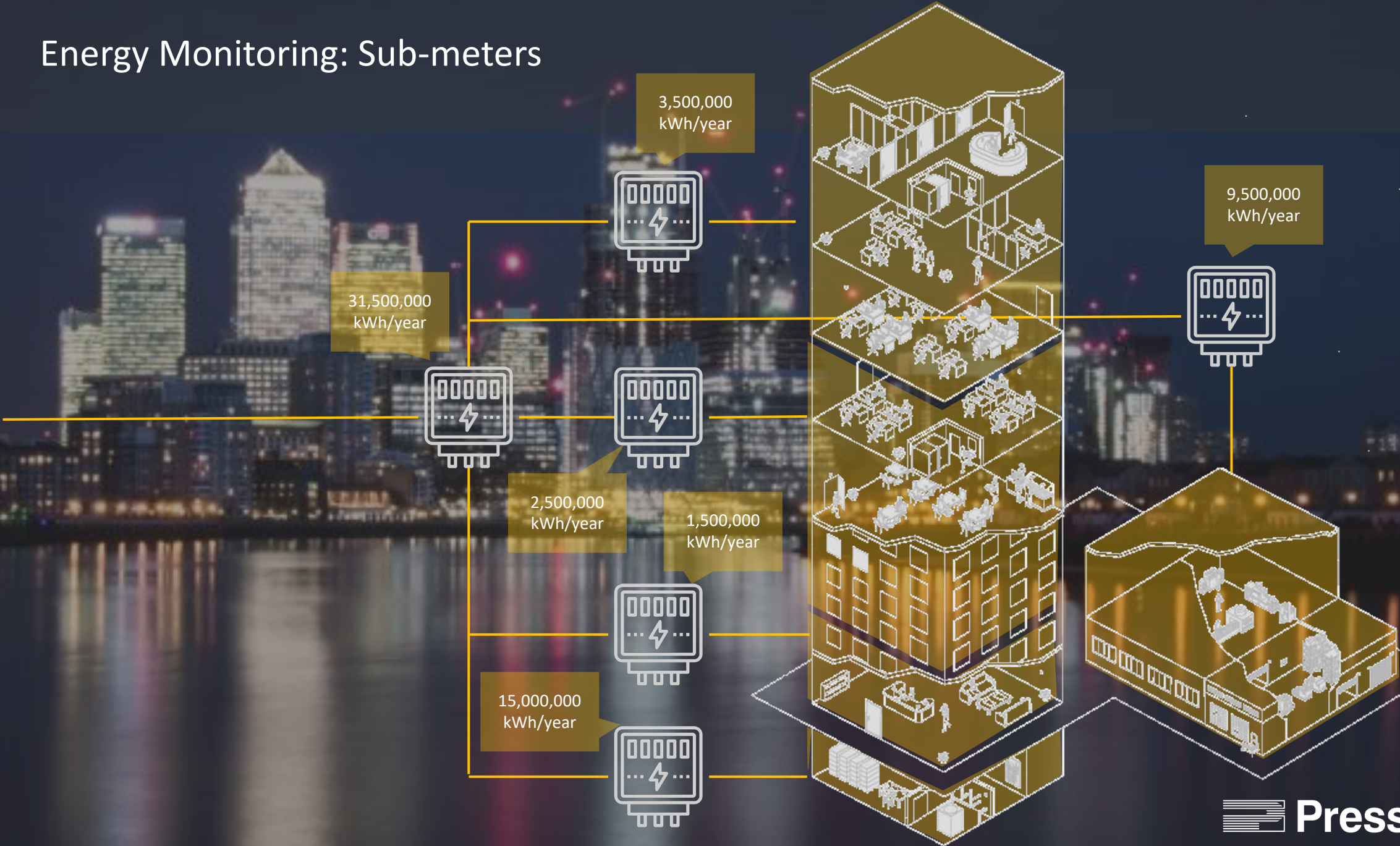


Energy Monitoring: Main incoming meter

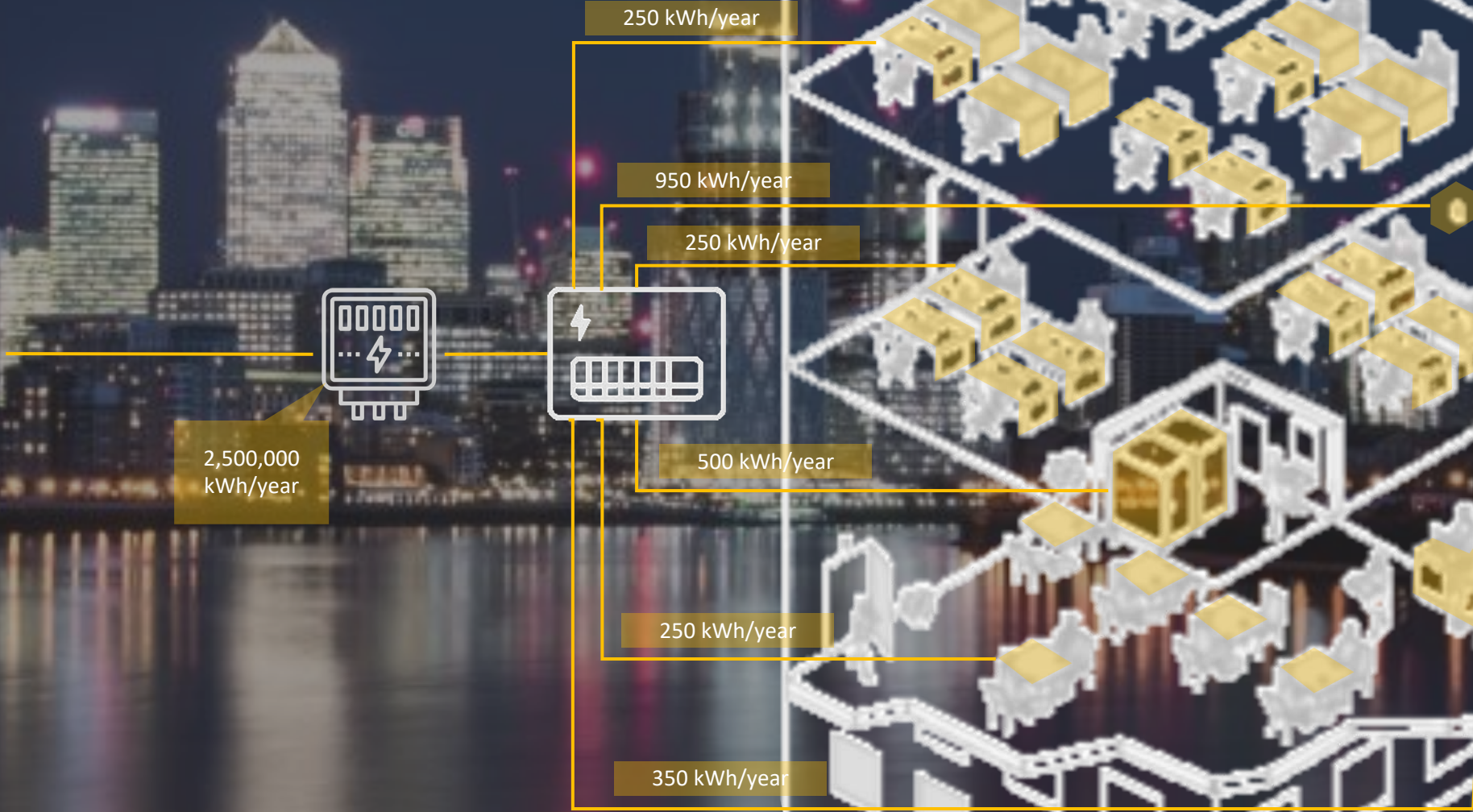
31,500,000k
Wh/year



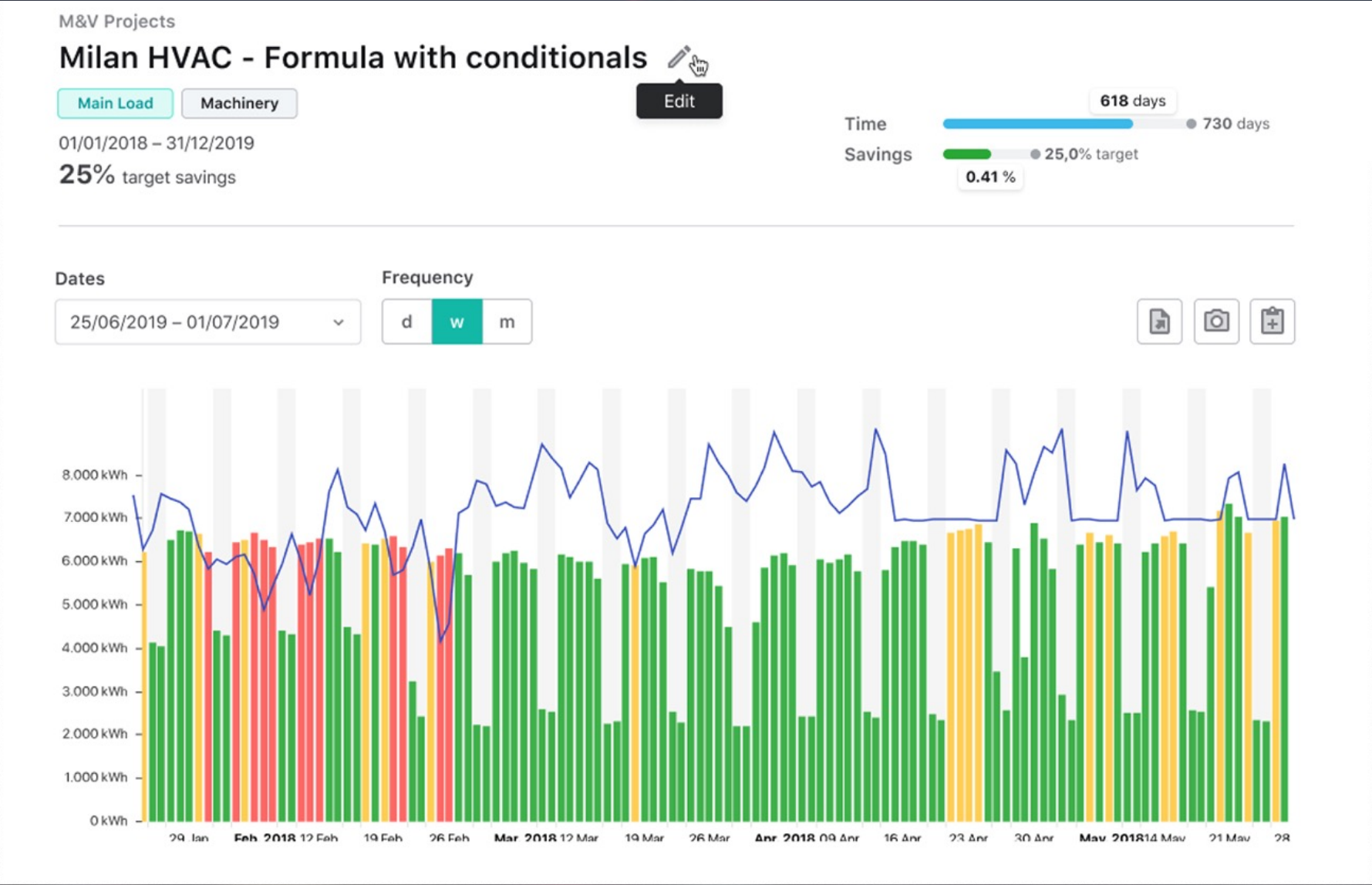
Energy Monitoring: Sub-meters



Energy Analytics: IoT sensors



Energy Analytics: Business Intelligence



Energy Analytics: The benefits

NPV over 12 years for the test case				
Rank	System or Technology	NPV	NPV/ee	NPV/sqm
1	Energy Analytics	€ 17,926,886.02	€ 4,484.76	€ 448.66
2	Intelligent Lighting	€ 12,079,379.20	€ 3,021.89	€ 302.31
3	Enhanced Security and Access Control	€ 7,249,258.61	€ 1,813.54	€ 181.43
4	Location Services	€ 4,403,273.21	€ 1,101.56	€ 110.20
5	Mobile Application	€ 3,964,475.96	€ 991.79	€ 99.22
6	Environmental and Water Quality Monitoring	€ 3,812,439.25	€ 953.76	€ 95.41
7	Intelligent Waste	€ 3,609,814.39	€ 903.07	€ 90.34
8	Space Booking	€ 2,540,413.67	€ 635.53	€ 63.58
9	Enhanced Vertical Transportation	€ 2,121,342.46	€ 530.70	€ 53.09
10	Digital Screens and Signage	€ 1,292,717.24	€ 323.40	€ 32.35

The business case for intelligent buildings – Arcadis (May 2022)

Energy Analytics: The benefits

Cost Savings
Environmental Impact
Compliance
Improved Building Performance
Predictive Maintenance
Benchmarking & Performance
Right-sizing
Employee Awareness
Energy Demand Management
Energy Management Systems
Energy Efficiency Incentives
Resilience & Reliability
Long-term Sustainability

A (92+)

B (81-91)

C (69-80)

D (55-68)

E (39-54)

F (21-38)

G (1-20)

Energy Management: The future



Continued focus on reducing the amount of energy consumed



Investment in sustainable buildings



Digital transformation of energy management (EPMS)



Adoption of renewable energy sources



The rise of the 'prosumer'



Demand-side management



Pressac

We're on stand D40 if you'd like to find out more...



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9-10 October 2024 • ExCeL London

We look forward to seeing you in 2024