

# HOW AI UNLOCKS HIDDEN ENERGY SAVINGS IN COMMERCIAL BUILDINGS

# Energy Efficiency Webinars

**HOW AI UNLOCKS HIDDEN ENERGY SAVINGS IN COMMERCIAL BUILDINGS**



**Tue, October 7th**

**CONTINUOUS MONITORING: FROM DATA TO REAL SAVINGS IN OFFICE BUILDINGS**



**Thur, October 23rd**

**BOOST YOUR BUSINESS:  
BECOME AN ENERGY TWIN PARTNER**



**Thur, November 6th**



**Andrej Skotta**  
Tatra Bank

Mechanical engineer who studied at the Slovak University of Technology. After publishing research on ion-beam technology, he moved into facility management and by 2015 was responsible for facility management across multiple countries for Erste Bank Group. Since 2019 he has led Tatra Banka's building and construction management department, advocating data-driven, analytics-based operation to cut costs and boost sustainability.



**Adam Wallen**  
Ziva Tech Solutions

Ziva Tech Solutions, specializes in SkySpark data analytics among other things since Adam was the original trainer and he hand-picked his staff from this industry. Ziva is also a Vykon System Integrator and are experts at getting data out of virtually any system. Additionally, Ziva does training and services work across the IT spectrum to include custom graphics and AI solutions.



**Werner Vink**  
Infinity Monitoring

Mechanical HVAC Engineer working in the field of data driven energy optimisation within large commercial buildings since 2016. He believes the way forward is data-driven, by using analytics in the exploitation phase where equipment can be run more efficiently, lowering cost and making a positive impact on the world by using energy more efficiently.

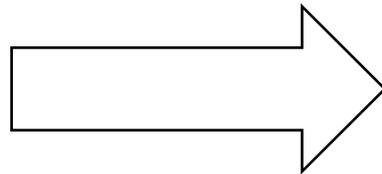


**Jan Siroky**  
Energy Twin

Jan Široký is the CEO and co-founder of Energy Twin, a company transforming building operations through AI and predictive analytics. He holds a doctorate in cybernetics and has over twenty years of experience in building control and data analysis.

# Turning Data Into Knowledge

Time Stamp	kW
01.10.2025 00:00:00	8.2
01.10.2025 01:00:00	8.7
01.10.2025 02:00:00	8
01.10.2025 03:00:00	7.9
01.10.2025 04:00:00	7.9
01.10.2025 05:00:00	7.9
01.10.2025 06:00:00	8
01.10.2025 07:00:00	9.6
01.10.2025 08:00:00	13.8
01.10.2025 09:00:00	17.9
01.10.2025 10:00:00	22.6
01.10.2025 11:00:00	20.5
01.10.2025 12:00:00	19.2
01.10.2025 13:00:00	19.1
01.10.2025 14:00:00	23.9

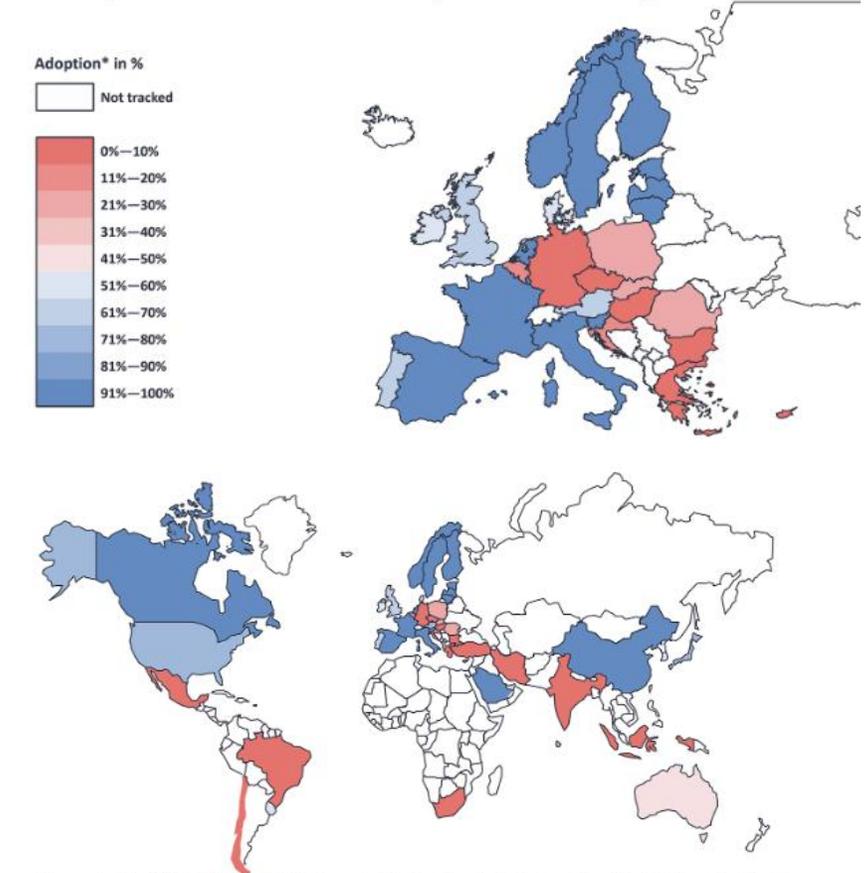


- Energy consumption increased by 4% over the past 9 days.
- Second consecutive week with a Sunday morning spike.
- Verify whether cooling is operating during weekends.
- Setback consumption of 8 kW is excessive; should be reduced to approximately 5.5 kW.

# Main Enablers – Why Now?

- Data Availability
  - Smart meters widely available (except CZ)
- Metadata as a Shared Language
  - Semantic modeling
- Tools
  - Proven AI tools and powerful computing

Europe smart electricity meter adoption 2024



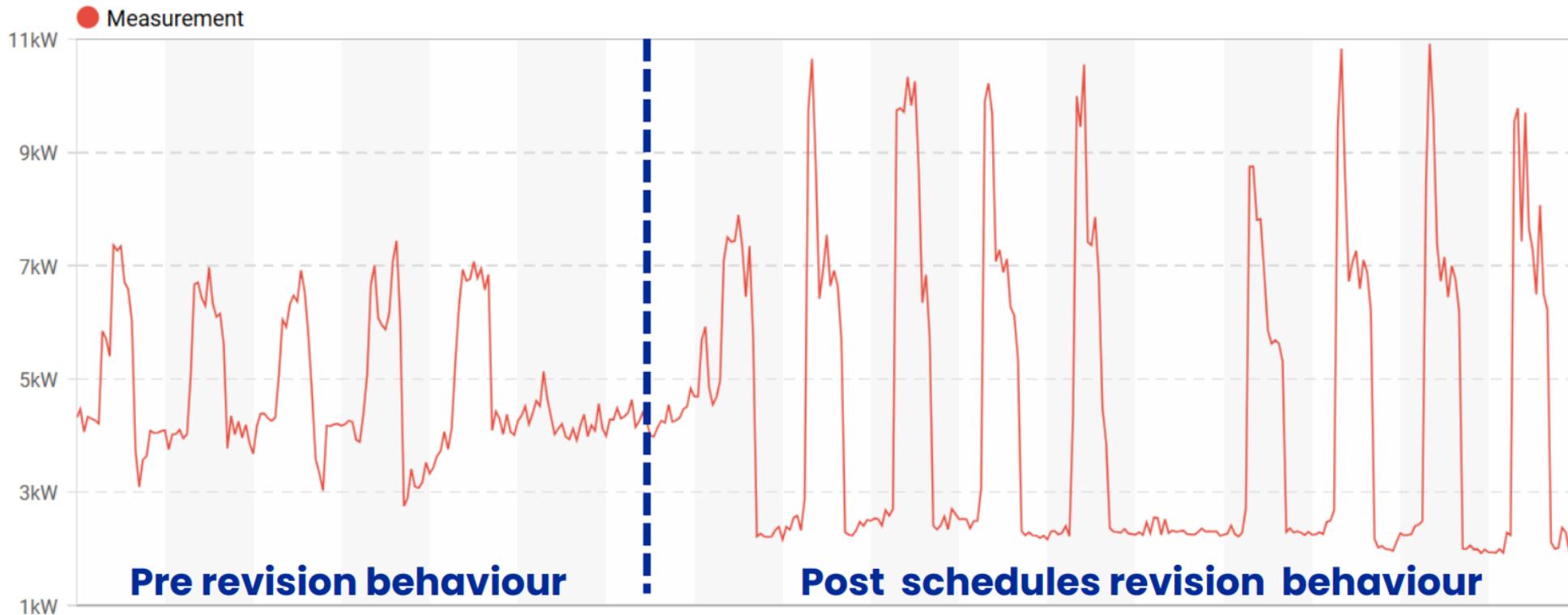


# Energy Twin Services And Tatra Bank

- Smart meter data of 60+ branches
  - Data retrieval via distributor portal
- Continuous analysis of measured data using AI
  - Anomaly detection
  - Performance degradation
  - New (or recurring) inefficiencies
- Regular monthly online meetings
  - Energy Twin experts and Tatra bank facility managers
  - Energy saving opportunities review

# Collaboration With Tatra Bank

## Setback improvement - real world example



Schedules review led to 19% savings

# Collaboration With Tatra Bank

- Some typical findings
  - AHUs with preheat active during unoccupied periods
  - Illuminated advertising signs on incorrect schedules
  - Missing heating and cooling setbacks
  - Local electric heaters installed and always on
  
- Portfolio-wide annual savings: 5%



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