How Truman Data's Systems transforms demand response

Truman Data's two integrated systems enable end-customers, such as cities and other large real estate owners, to reduce energy use, generate revenue, and, most importantly, strengthen their bargaining power when negotiating with suppliers to become the city's energy contractor. At the same time, these systems offer energy suppliers an alternative way to source demand response, improve prediction accuracy, and automate imbalance-settlement reporting.

1) The database * **connects the real estate to the cloud with market information**, and **2) the device-level AI-software** ** **manages every energy load** granularly in each of the connected buildings in real time.

Together, they enable the creation of controllable batches of tradable flexibility assets for the energy company that holds the supply contract for the city's buildings.

As energy suppliers are responsible for balancing their production and already manage their production balance by purchasing flexibility on the Nord Pool market, Truman Data's solution provides them with a more affordable and effective system. With it, the supplier can obtain the required flexibility at a better price point than the equivalent demand-response options available on Nord Pool, which are now sourced directly from their own customers. And because the supplier purchases demand response directly from the city, the relationship between the two parties is significantly strengthened.

The dynamic above presents a disruptive insight that will eventually evolve into an energy consumption-driven market ecosystem, rather than the current production-driven one.

1. The energy cost-efficiency model enabled by **Truman Data's solution is not only capable of reducing end-customers' energy costs by 20%,** but the solution also serves as a negotiating weapon for real estate holders, as the;

2. ***Solution* places real estate owners in a position where they can require electricity suppliers to purchase all the demand-response capacity of their buildings at unprecedented price levels, which any flexibility service provider cannot match.**

In the Nordic energy market, Nord Pool sets the rhythm. On its marketplace, flexibility sellers are available, and the price curve for each Demand Response (DR) quantity reflects the hourly fluctuation in the cost of each batch of flexibility. When a power company's production rises or falls for any reason, the company, regulated as a Balance Responsible Party (BRP), must respond quickly to maintain balance. Traditionally, the BRP purchases Demand Response directly from the Nord Pool market to offset these shifts.

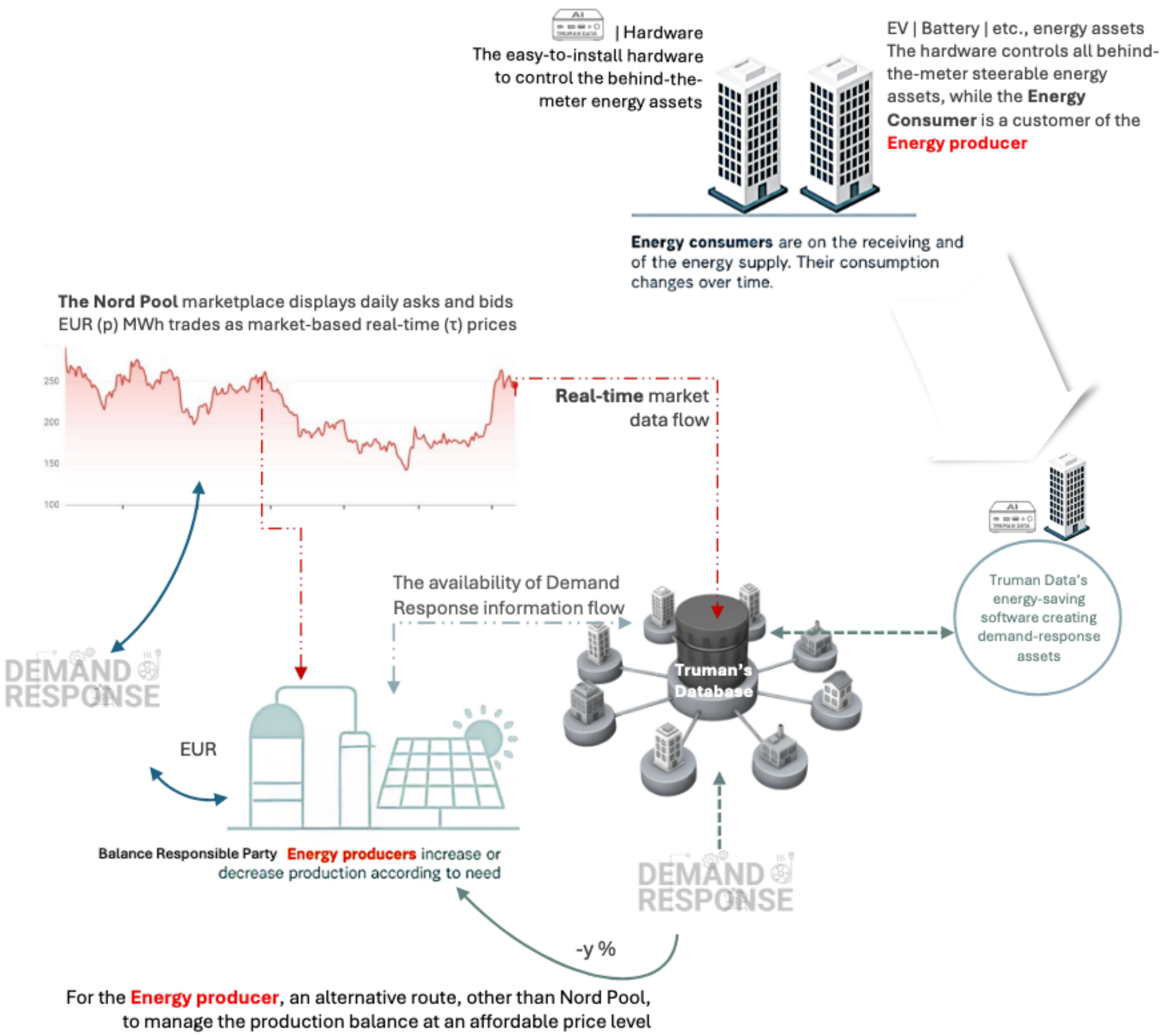
Truman Data's cloud database Energy Coop offers an alternative option at a lower price point. It continuously monitors Nord Pool's real-time ask and bid prices for demand response while simultaneously tracking operational data through the ForeCoop SaaS platform across an extensive network of city-owned buildings. Because the software is installed separately in each building, it creates a digital energy twin of the entire building stock and all behind-the-meter loads, indicating when and where consumption can be optimized for increased or decreased efficiency.

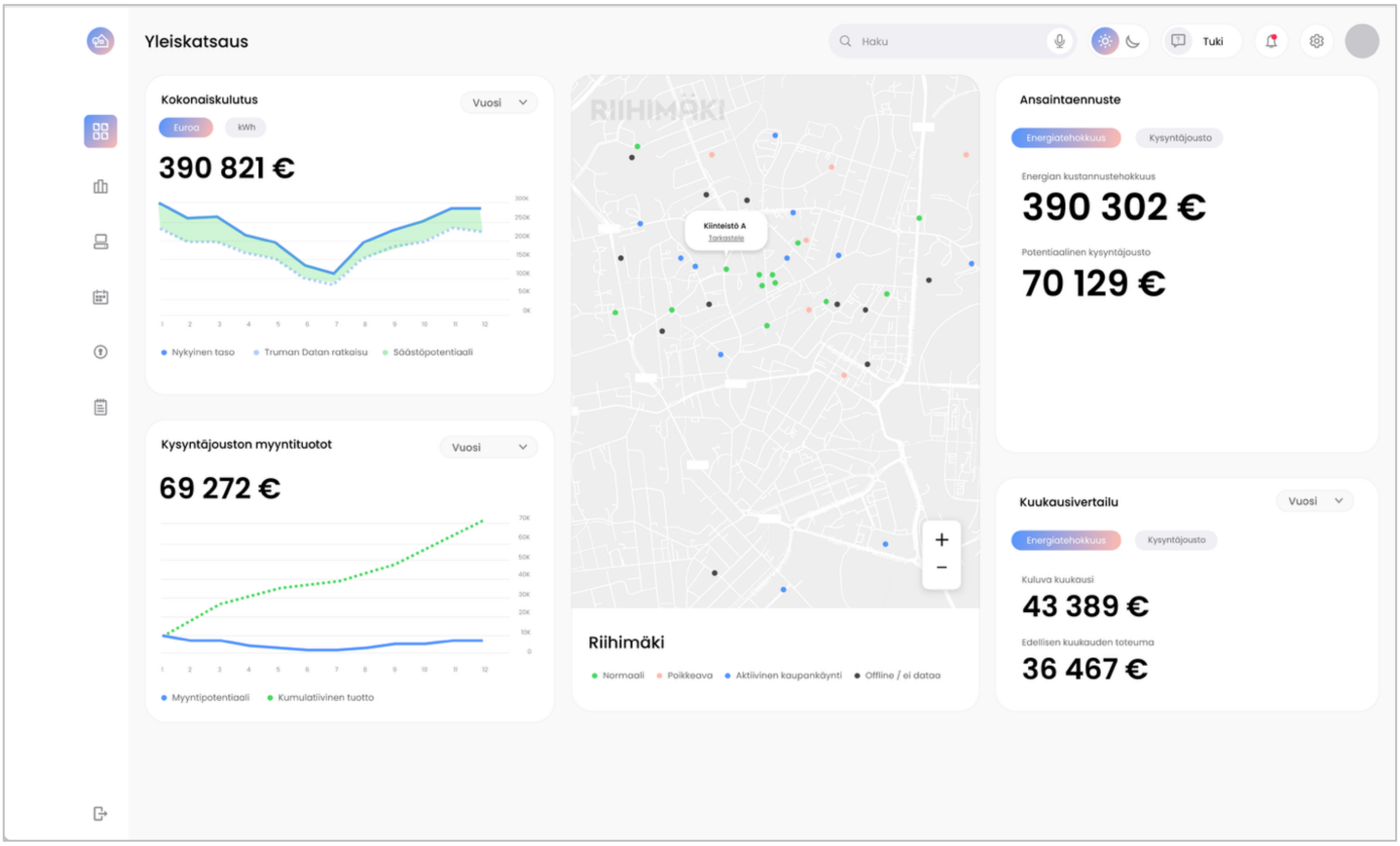
| * the Energy Coop solution | ** the ForeCoop SaaS |

The setup enables the city's energy supplier (the power company providing electricity to the municipality) to access a cheaper and more integrated alternative: purchasing the required flexibility directly from the city's own real estate portfolio, rather than relying solely on external sellers on Nord Pool.

Each connected building is equipped with Truman Data's device concept. These mini-PCs run ForeCoop SaaS, which gathers and controls real-time data from EVs, batteries, and other behind-the-meter assets. Together, they form a virtual pool of flexibility-a living, responsive asset base that the Energy Coop can coordinate in real-time.

When Truman Data's aggregated demand-response (flexibility) price is lower than Nord Pool's, the energy company can source flexibility directly through the Energy Coop platform. This achieves the same balancing effect at a lower cost, with greater operational control, and with the added benefit of strengthening the business relationship with its customer: the energy-buying city itself.




Yleiskatsaus
Haku
Tuki
Kokonaiskulutus
Vuosi
Euroa
kWh
390 821 €
Nykyinen taso
Truman Datan ratkaisu
Säästöpotentiaali
RIIHIMÄKI
Kiinteistö A
Tarkastele
Riihimäki
Normaali
Poikkeava
Aktiivinen kaupankäynti
Offline / ei dataa
Ansaintaennuste
Energiatehokkuus
Kysyntäjousto
Energian kustannustehokkuus
390 302 €
Potentiaalinen kysyntäjousto
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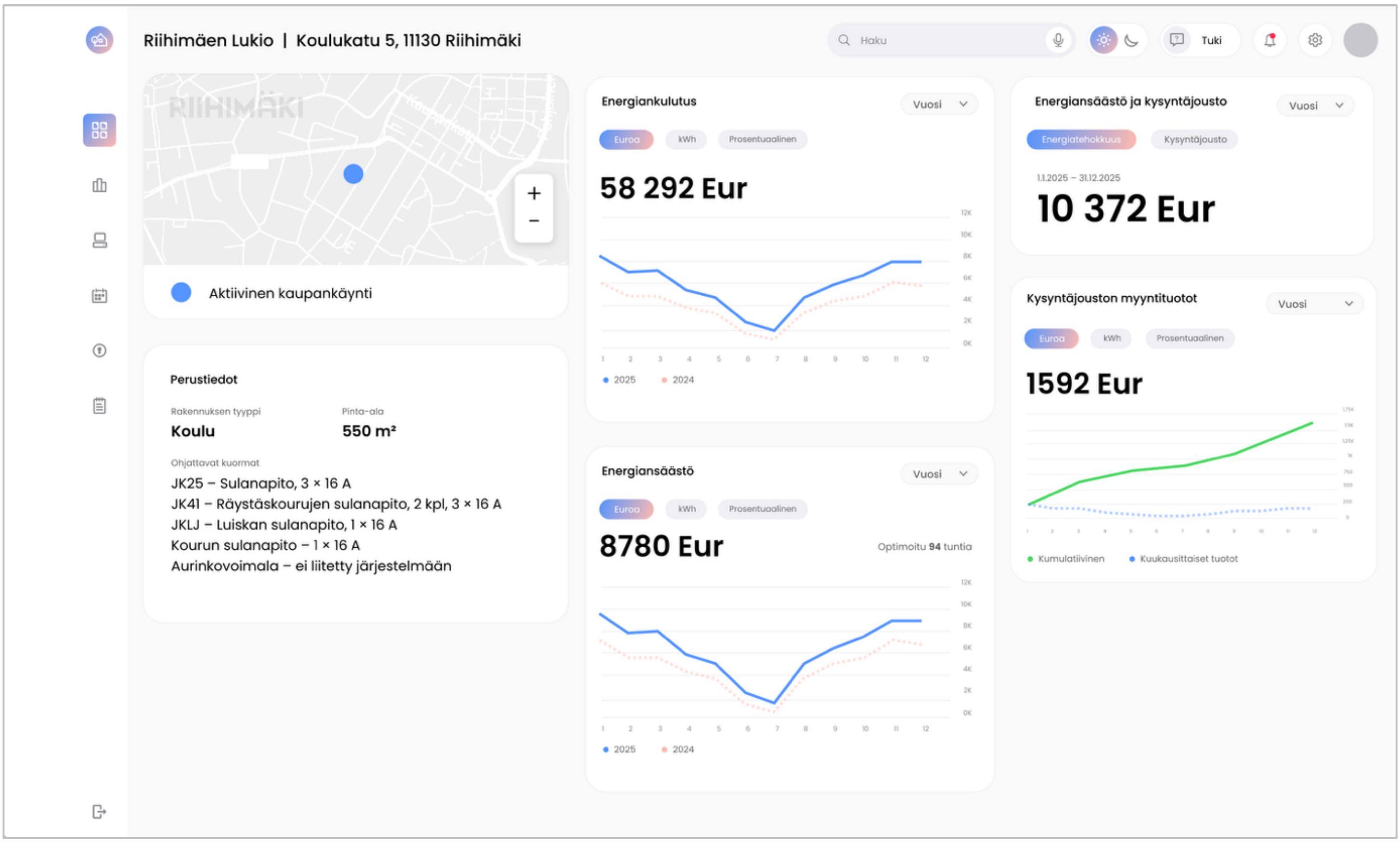
Riihimäen Lukio | Koulukatu 5, 11130 Riihimäki
Haku
Tuki
RIIHIMÄKI
Aktiivinen kaupankäynti
Energiankulutus
Vuosi
Euroa
kWh
Prosentuaalinen
58 292 Eur
2025
2024
Energiansäästö ja kysyntäjousto
Vuosi
Energiatehokkuus
Kysyntäjousto
1.1.2025 – 31.12.2025
10 372 Eur
Perustiedot
Rakennuksen tyyppi
Koulu
Pinta-ala
550 m²
Ohjattavat kuormat
JK25 – Sulanapito, 3 × 16 A
JK41 – Räystäskourujen sulanapito, 2 kpl, 3 × 16 A
JKLJ – Luiskan sulanapito, 1 × 16 A
Kourun sulanapito – 1 × 16 A
Aurinkovoimala – ei liitetty järjestelmään
Kysyntäjouston myyntituotot
Vuosi
Euroa
kWh
Prosentuaalinen
1592 Eur
Kumulatiivinen
Kuukausittaiset tuotot
Energiansäästö
Vuosi
Euroa
kWh
Prosentuaalinen
8780 Eur
Optimoitu 94 tuntia
2025
2024