

Entro: From Report To Living Model

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Part of Don't Just Host It. Build It



Gard Morken

Regional Manager West, Entro

One data model per building finds energy waste and plans upgrades

Gard Morken, Regional Manager West at Entro, showed how Entro has moved from one-off energy reports to a living model of each building. The work began as EntroInnova, a research project with SINTEF Digital and funding from the Research Council of Norway, to build an internal tool for Entro's energy advisors. Following one 5,800 m² office building, he walked through the steps: collecting data from registers and hourly meters, finding energy thieves in the consumption, recording the site inspection straight into the model, drawing the building for a SIMIEN energy calculation, and simulating measures on the road to energy label A. In the example, three energy thieves were found and NOK 100,000/yr was saved. He ended by saying the same data foundation proved just as useful for owners, managers, tenants and contractors.

KEY TAKEAWAYS

- From an address, the tool pulls in land registry, business registry, Enova, MET Frost and Elhub data.
- Every deviation gets a price in kilowatt hours and kroner, and savings show up in the same data.
- In the example, ventilation running 24/7 used 48 MWh/yr before it was fixed.
- Measures are simulated together in SIMIEN, because measures affect each other.
- The example building went from 182 to 72 kWh/m² and reached label A for NOK 4.93m.

**NOK
100,000
/yr**

Saved in the example building after fixing three energy thieves