



# HANSEN KEYNOTE: FLEX MEETS EFFICIENCY

Mika Rissa, VP Energy Strategy & Colleagues

- Five Realities For Power Portfolios
- Hansen Solutions to Enable Flex with Efficiency

# FIVE REALITIES FOR POWER PORTFOLIOS

WHY PRICE VOLATILITY AND FLEX BEHAVIOUR NOW DRIVE OPERATIONAL OUTCOMES AND RISK



## 1. Weather-dependent renewables drive price volatility

- Wind and solar drive spot prices
- Dunkelflaute and congestion create price spikes
- Direct impact on portfolio risk and flexible generation revenues
- High-resolution renewable forecasts are critical

## 2. Flexibility becomes price-sensitive and synchronised

- EVs, heat pumps and commercial loads shift with prices
- Consumption, generation and storage respond to the same price signals
- Large portfolios respond synchronously
- Load forecasts need to include flex behavioural

## 3. Day-ahead prices change the reality they were based on

- Day-ahead forecasts optimise against expected flexible demand
- **Once prices are published**, customers and assets respond
- Weather effects amplify portfolio risk
- Portfolio risks materialise after price publication

## 4. Intraday becomes the key mode of operation

- Imbalance costs concentrate in extreme price periods
- Portfolio positions must be adjusted closer to delivery
- Intraday trading is essential for risk control and value capture

## 5. Imbalance risk increases, even with full asset control

- Customer behaviour and automated assets react dynamically to prices
- System-wide synchronisation amplifies forecast and timing risk
- BRP imbalance responsibility remains unchanged

*One portfolio reality. One imbalance responsibility. Flexibility expressed in different ways.*

# LINA TRANEVALL

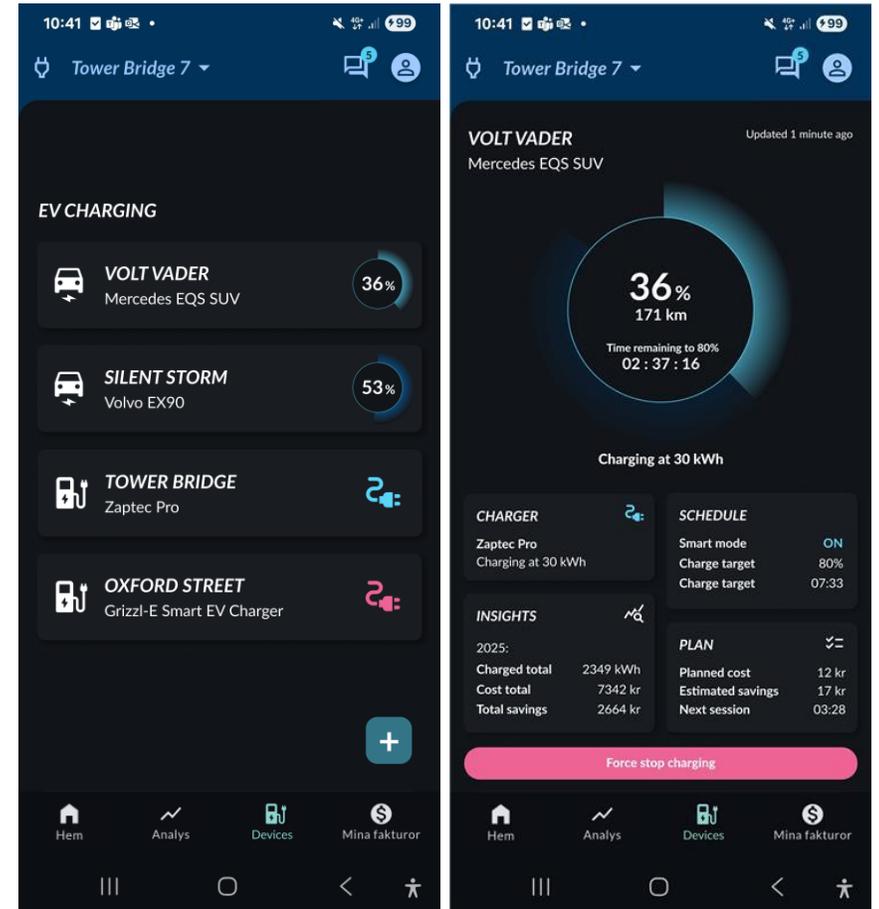
Product Director, Hansen

# HANSEN'S FLEX APP SUPPORTS HEM

- Capability for your end-users to steer their charging costs.
- Visualization of the data on Hansen's Self-Service platform
- Enable new smart products that leverage the markets flexibility initiatives.
  - Electric vehicle charging
  - Home chargers
  - Solar inverters
  - Home batteries
  - HVACs (heating and cooling)
- Hansen can handle the whole chain



**DER  
Connectivity  
Middleware**



# DIAL AI & HANSEN

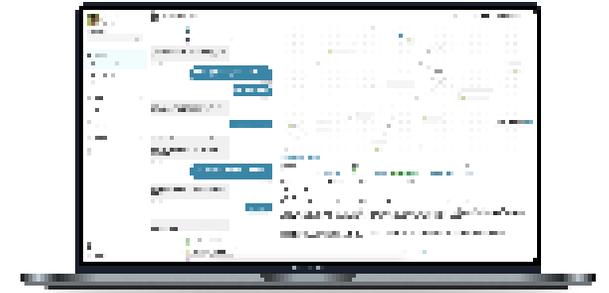
## HARNESSING AI TO TRANSFORM THE ENERGY SECTOR

### Strategic Investment

- Hansen's strategic investment in **Dial AI**, a Vancouver-based AI innovator, is accelerating AI-driven transformation in energy.

### Energy Vertical Focus

- Hansen's AI Agent with Dial AI is a **conversational AI platform** purpose-built to **streamline operations** and **enhance customer service** in the energy sector. It is a Gen AI agent solution for customer service process automation.



Targeted to **utility service providers** seeking a **domain-specialised**, quickly deployable & integrated solution

# CUSTOMER ENGAGEMENT - WHO HANDLES WHAT?

You remain in control, human in the loop, guiding principle.

## AI Handles the Routine



Overflow call volume



24/7 availability



High value but repetitive queries



Support for agents (CSR Co-Pilot)



Call summary and case creation beyond single call resolution(s)

## What Humans Handle



Complex conversations



Complaints and conflict resolution



Compliance and regulation



Emotional nuance



Relationship-building and loyalty

# SUPPORTING THE CUSTOMER JOURNEY

In our experience customers will most often reach out to you, their energy provider, with these questions and problems for you to solve.



## Billing and Payments:

balances, due dates, invoice information breakdown, moving the due date of the invoice, shifting invoice interval, selecting payment options, setting up a payment plan.



## Usage and Consumption:

understanding how much they have used and when, get efficiency advice on how to spend less energy



## Customer Management:

updating contact details, future addresses and communication preferences



## Service Requests:

starting service; move-in, add a new customer and or contract, stopping, or transferring service; move out.



## Questions:

such as, energy market information, information about your prices and products.



# RIIKKA KUMLIN

Product Director, Hansen

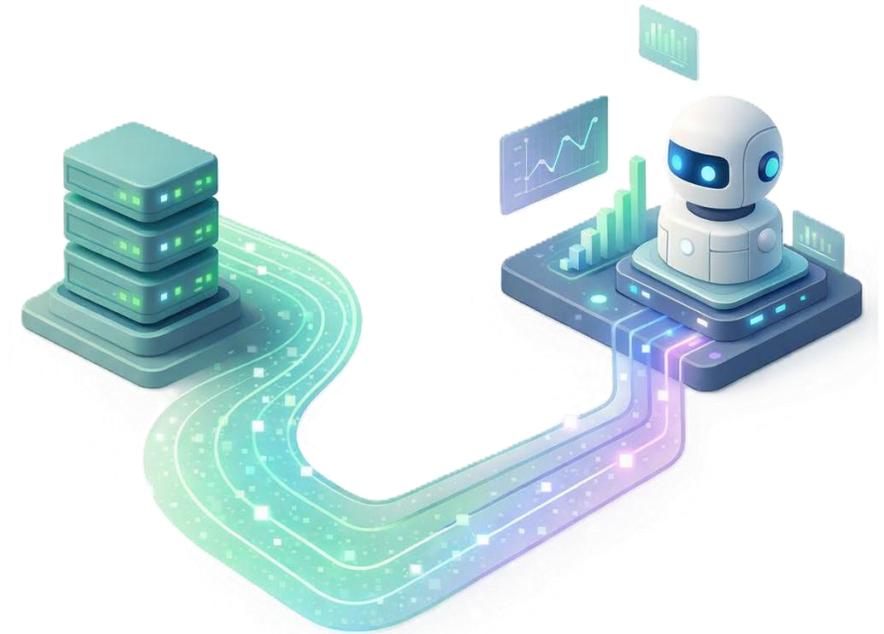
# HANSEN MDM

## Current focus

- Near real-time MDM (in Cloud)
- Seamless integration

## Next focus

- Product expansion towards advanced analytics
  - Through data lake when possible
  - ML/AI/Analytics
- Enabling informed decision making



# SAKARI SEPPÄLÄ

Senior Product Manager, Hansen

# HANSEN EDM BRP

- Hansen EDM **integrates** to multiple markets and external systems to gather **time series data**.
- Calculations are **created automatically** from asset data for trading, settlement and invoicing processes.
- Hansen EDM works as **energy data warehouse** storing data even for decades to be used in reporting and portfolio analysis.



Hansen**EDM**

Automated Energy  
Data Management

# JYRI JOUTSI

Product manager, Hansen Trade

# ASSETS & ENERGY DATA



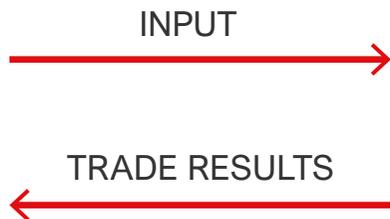
EDM



VPP



SCADA



# MARKETS



Power Exchanges



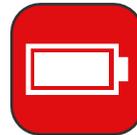
Ancillary Markets



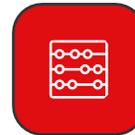
Other Flexibility Markets



IMBALANCE TRADING



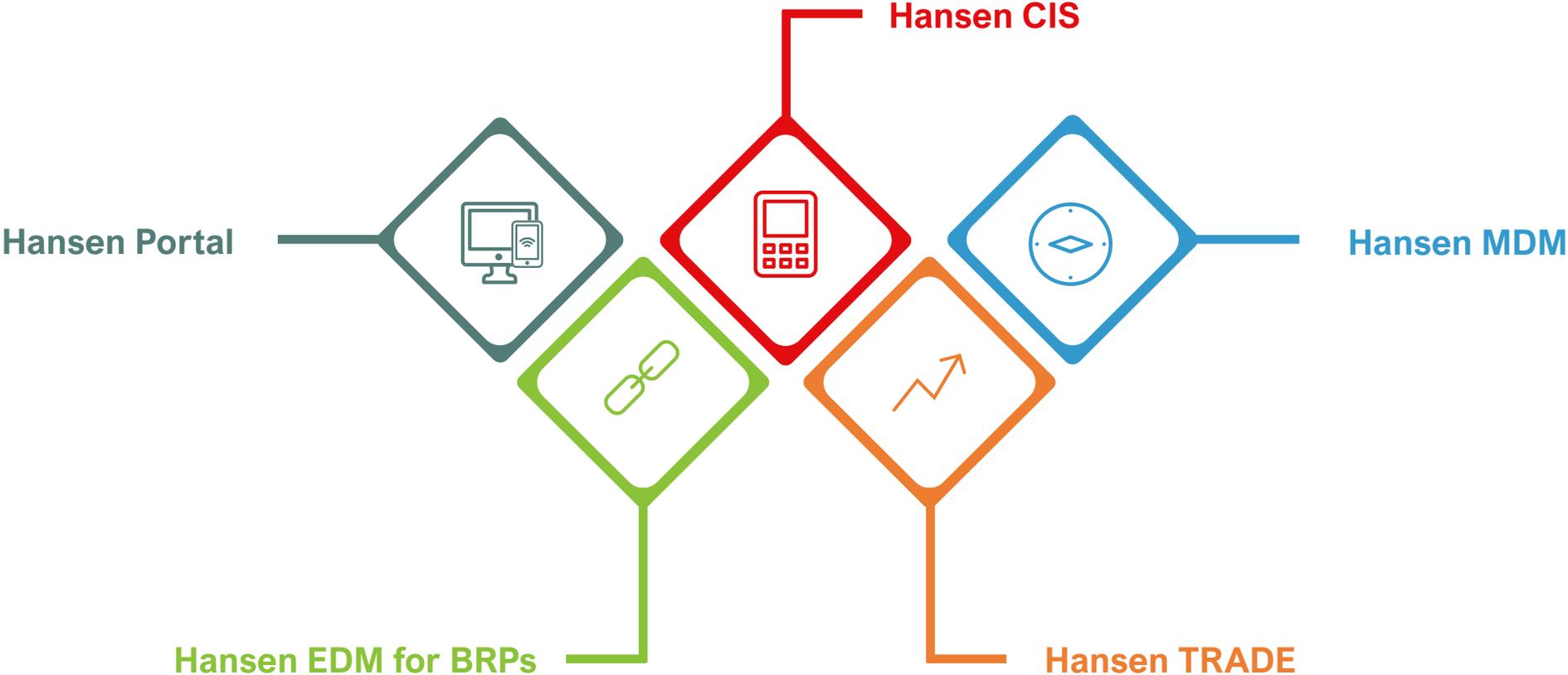
ASSET TRADING



MULTI-MARKET OPTIMISATION

- HansenTrade**  
Intraday Trading
- HansenTrade**  
Day-ahead Trading
- HansenTrade**  
Intraday Auctions
- HansenTrade**  
aFRR
- HansenTrade**  
FCR
- HansenTrade**  
Regulating Power (mFRR)
- HansenTrade**  
Multi-market Optimization
- HansenTrade**  
Customer Portal
- HansenTrade**  
Position Monitoring
- HansenTrade**  
Power Market Analytics
- HansenTrade**  
Power Plant Failure Alarms

# HANSEN FLEX SOLUTIONS



**FOR THE DEMO PLEASE  
CONTACT  
JYRI.JOUTSI@HANSENCX.COM**



**THANK YOU!**