AI agents for the work around networks and plant

Agents that read your procedures, your permits and your network records, prepare the work, and stop for a named person. On infrastructure you control.

THE PROBLEM

The templates we opened send meter alerts and update billing accounts with no step where a person approves, and we found none for a permit to work or an integrity record. Of 1,197 operations in 19 public energy interfaces, 443 are sent as changes, and the method alone cannot tell which only read.

HOW IT WORKS, IN THREE STEPS

STEP 01

Connect what the agent may read.

Procedures, safety rules, licence conditions and tariffs become knowledge sources, with each reader's permissions kept. Work orders, assets and accounts are reached through the description of an interface you already run; grid and plant history through a reporting database, read only.

STEP 02

Decide where it stops.

Every tool call passes your policy. A tool that changes a work order, a bill or an account waits for a named person.

STEP 03

Run it where the data lives.

In your data centre or your private cloud, on a model you serve.

THE RULE EVERY AGENT FOLLOWS

It prepares. A named person decides.

Thirty-five agents in nine areas

Grid and system operations	Grid Optimization. Outage Prediction. Renewable Integration. Control Room Log Summary
Field operations	Field Procedures Q&A. Switching Schedule Check. Job Pack Preparation. Field Visit Report
Assets and integrity	Asset Health. Inspection Findings. Integrity Record Review. Work Order Drafting
Health, safety and environment	Permit to Work Check. Incident Investigation Report. Hazard Study Action. Emissions Record Check
Customers and billing	Usage Insights. Complaint Response. Bill Query Check. Outage Update Drafting
Meters and data	Meter Data Analysis. Demand Forecasting. Meter Read Exception
Regulation and markets	Regulatory Reporting. Licence Obligations Q&A. Regulatory Change Summary. Market Data Briefing
Engineering and connections	Connection Application Check. Engineering Standards Q&A. Contractor Submittal Review. Consent Conditions Summary
Procurement, finance and people	Invoice Matching. Contractor Compliance Check. Cost Variance Review. Training Content

Also in the pack: the full list with what each agent reads and where it stops, and the white paper “AI agents inside the energy company”, with its sources.

Seven questions to ask before an agent touches a network

01 Where does it run, and where is the model?

02 Does it keep each person’s permissions?

03 Which tools change a work order, a bill or an account, and does each wait for a person?

04 Where is the step at which a named person approves?

05 Can it reach a control system, and what does it do when it does not know?

06 What is recorded, and for how long?

07 Can we stop one agent, one tool, or all of them, at once?

WHERE THE PLATFORM RUNS TODAY

In production at a top-tier bank in Asia, air-gapped, inside the bank’s own perimeter.

An Australian state electricity utility, critical national infrastructure where data cannot leave the perimeter. Katonic won the competitive pilot with Cisco: six months, entirely on-premises on a locally hosted model.

Where to start

One team, one region, invented data first. A field procedures assistant can run on the first day, because no network system is touched.

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