BIRTECH / 2024-2026

Noctua

Web App

Designing for infrastructure monitoring, energy reporting and physical security.

SOLE PRODUCT DESIGNER / PRODUCTION HTML/CSS



Product image: BirTech

ROLE AND SCOPE

Designing inside a live DCIM platform

Noctua brings equipment, sensors and operating data into one web platform for data centers and other critical facilities. I joined an existing product as its sole Product Designer, designing across web modules and contributing production HTML/CSS.

01 **Dashboard widgets** 03-06

Designed widget families for different equipment, data types and dashboard sizes.

02 **Energy monitoring** 07-10

Designed PUE, KPI and reporting views for tracking energy use and cost.

03 **Physical security** 11

Designed a timeline for investigating access activity and related records.

04 **Assets and systems** 12-15

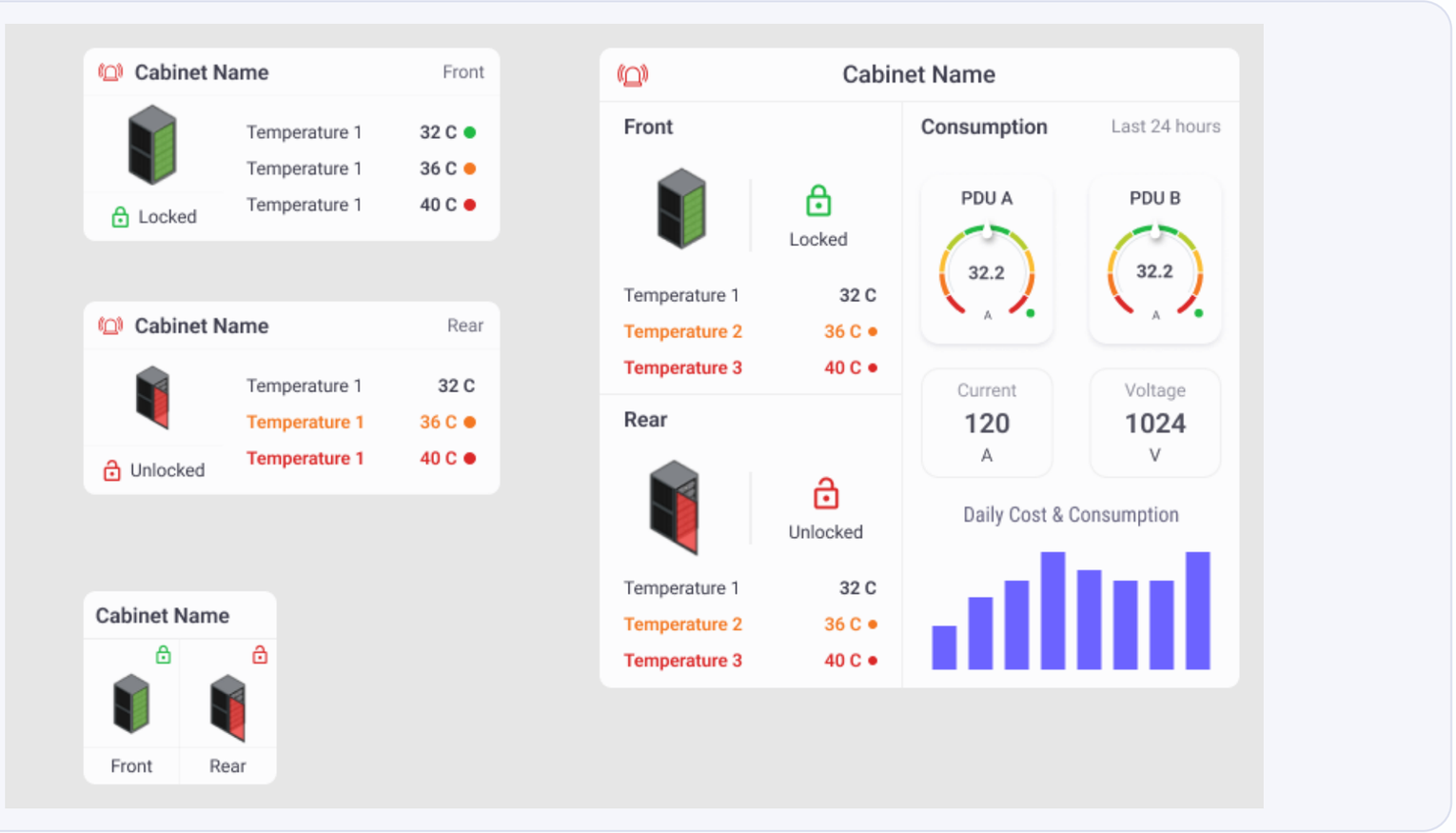
Designed site, equipment and service views for reviewing infrastructure status.

05 **Task Manager** 16

Designed the flow from creating a task on an alert to tracking it by status.

DASHBOARD WIDGETS

One cabinet, three levels of detail



Cabinet widget family / Compact and expanded layouts

DESIGN CHALLENGE

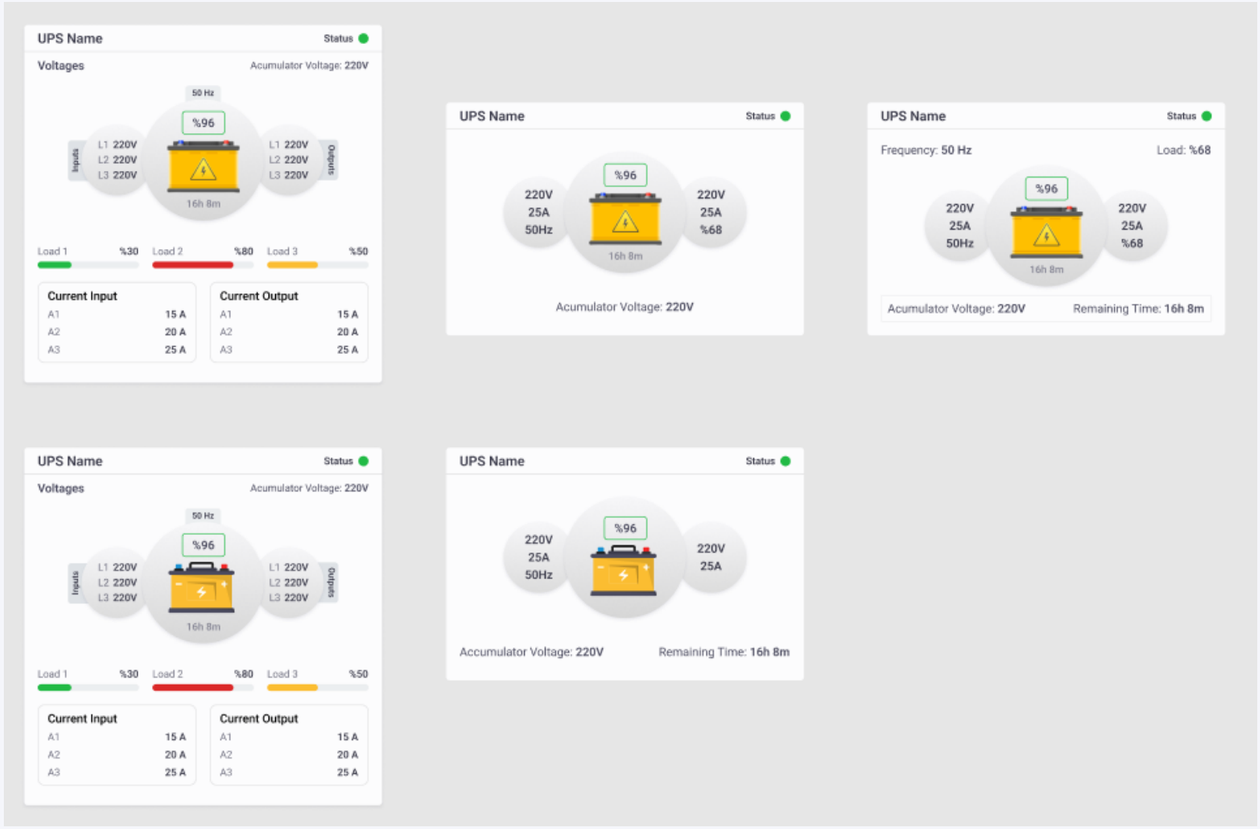
A cabinet tile can occupy anything from a compact status cell to a detailed dashboard panel.

DESIGN RESPONSE

Keep front and rear status visible in the smallest tile. Add temperature readings and power consumption as space becomes available.

DASHBOARD WIDGETS

Show UPS status before electrical detail



UPS widget family / Layouts at different sizes

DESIGN CHALLENGE

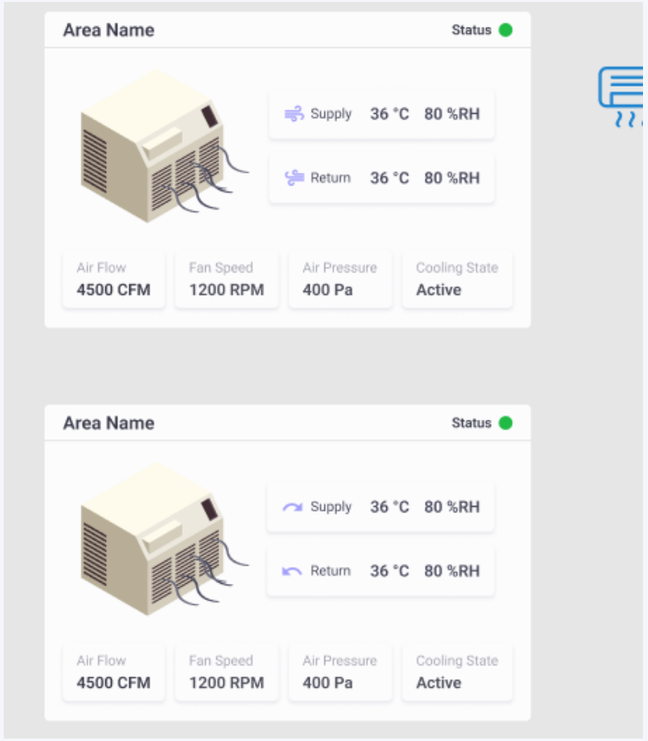
A UPS can have several useful readings, but a compact widget cannot give them all equal weight.

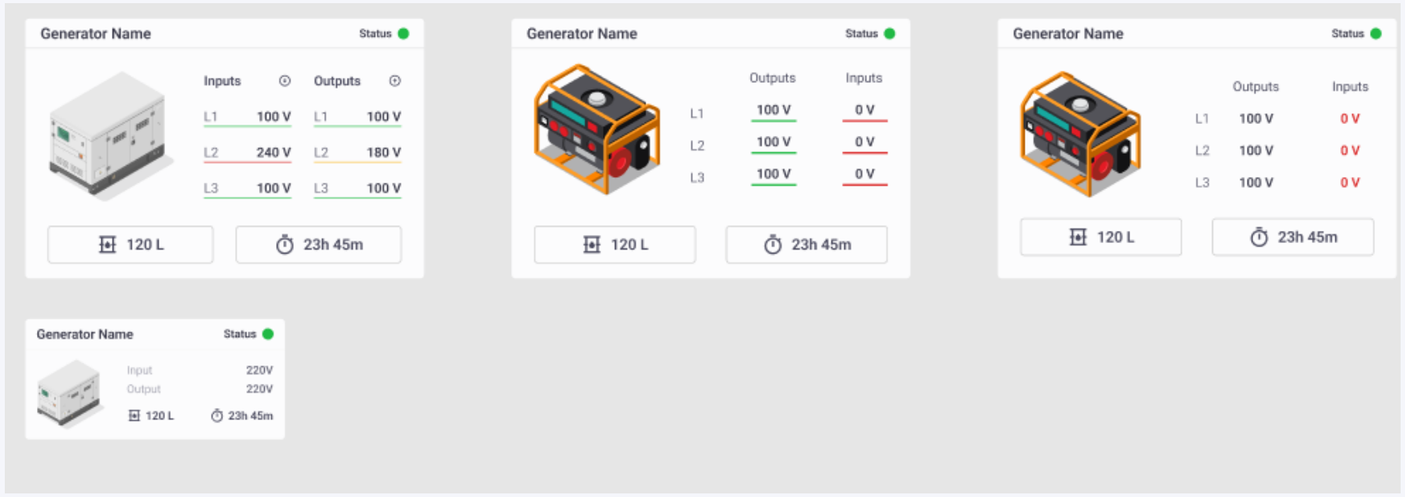
DESIGN RESPONSE

Use the battery and charge state as the visual anchor. Add load, voltage and input/output readings in larger variants.

COOLING AND BACKUP POWER

Different equipment, shared dashboard logic





HVAC

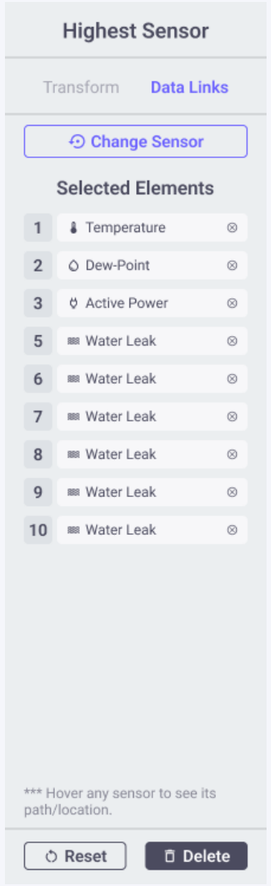
Cooling status and key airflow readings.

GENERATOR

Electrical readings, fuel and runtime across states and sizes.

DASHBOARD CONFIGURATION

Make widget data sources visible



DESIGN CHALLENGE

A dashboard tile can be connected to several sensors. Operators need a way to see what is linked and update the selection in the widget's context.

DESIGN RESPONSE

Separate Data Links from layout settings. Show selected sensors in a single list with individual removal controls and a clear way to change the selection.

SCREEN DETAIL

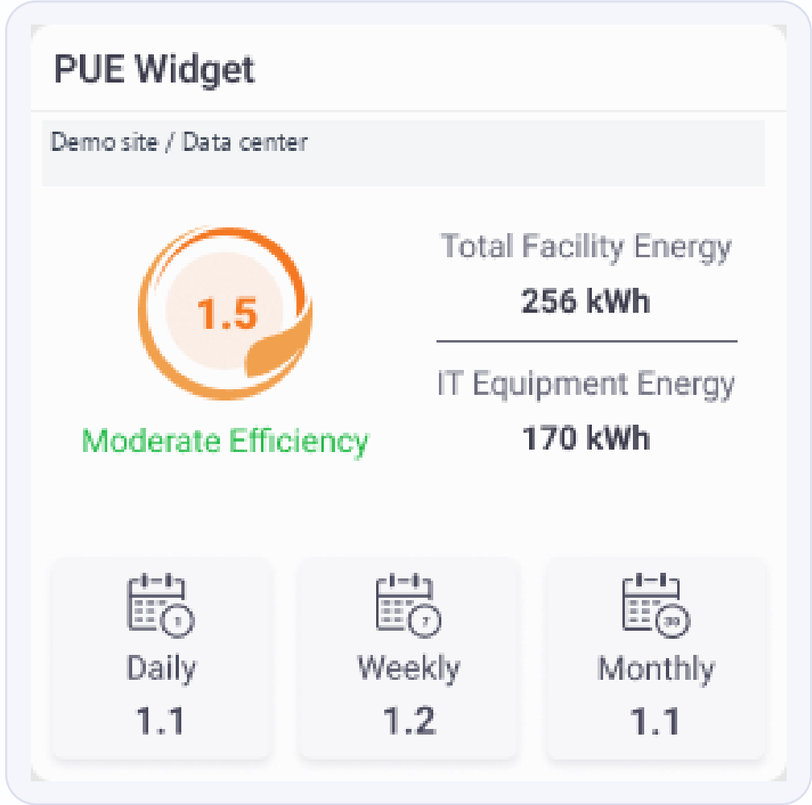
Highest Sensor widget with multiple linked data sources.

POWER USAGE EFFECTIVENESS

Put PUE in context



EXCEPTIONAL EFFICIENCY



MODERATE EFFICIENCY

DESIGN CHALLENGE

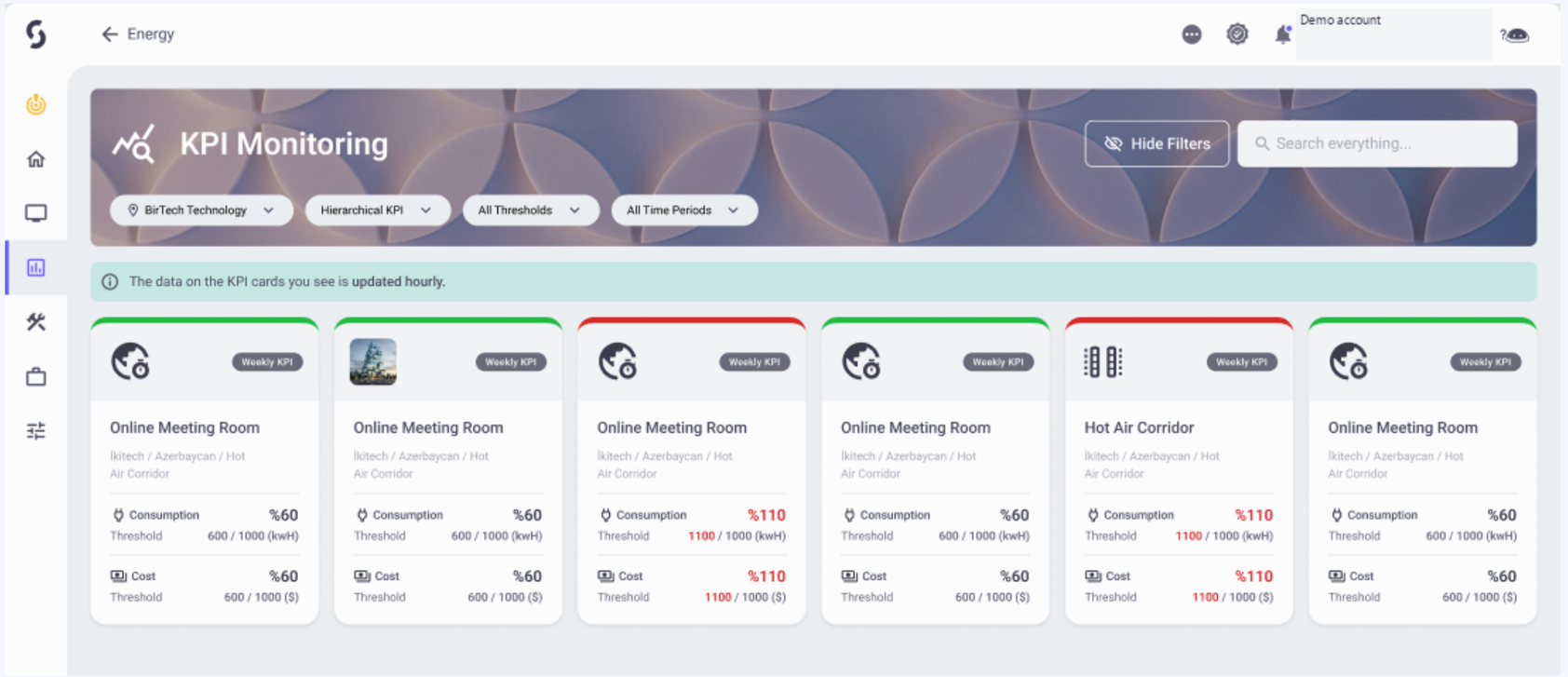
A PUE value is more useful when operators can see what contributes to it and how it compares across periods.

DESIGN RESPONSE

Pair the ratio and its efficiency label with facility and IT equipment energy. Keep daily, weekly and monthly readings visible below.

ENERGY MONITORING

Compare energy use with its thresholds



KPI monitoring / Filtered comparison across locations

DESIGN CHALLENGE

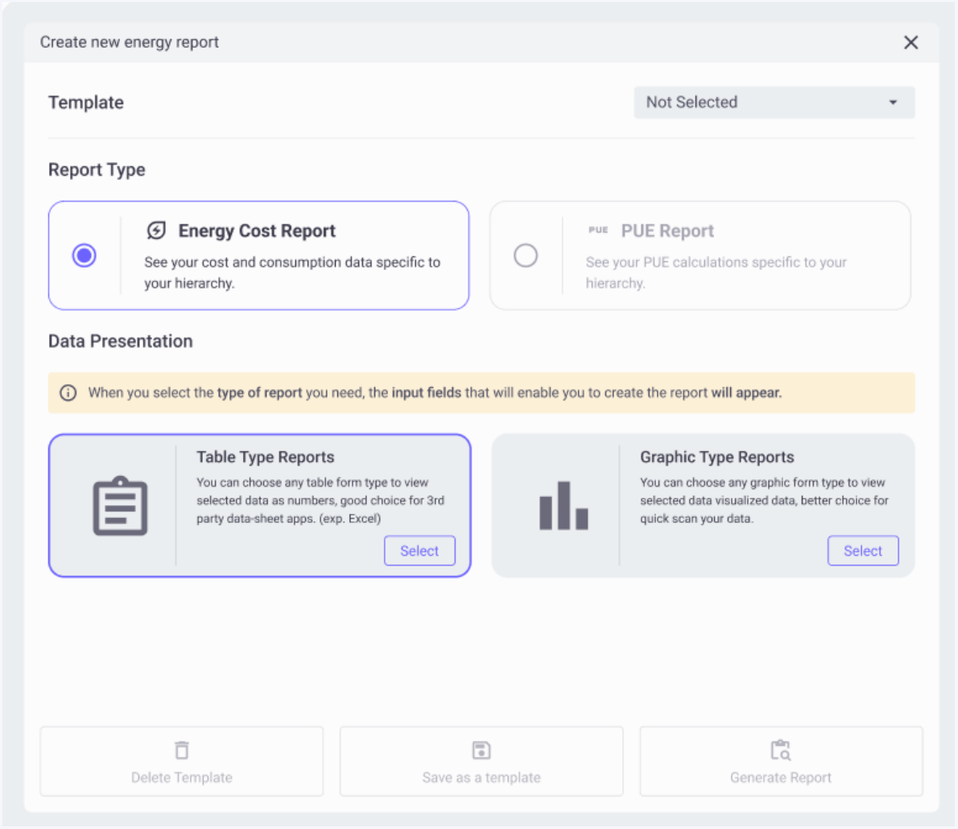
Energy monitoring brings consumption and cost together. Operators need to see which locations are within range before opening deeper detail.

DESIGN RESPONSE

Align KPI cards around a shared structure. Keep the value, threshold and period visible, with status indicators to flag exceptions.

ENERGY REPORTS

Set up a report for the question at hand



Energy Reports / Choose the report type and output format

DESIGN CHALLENGE

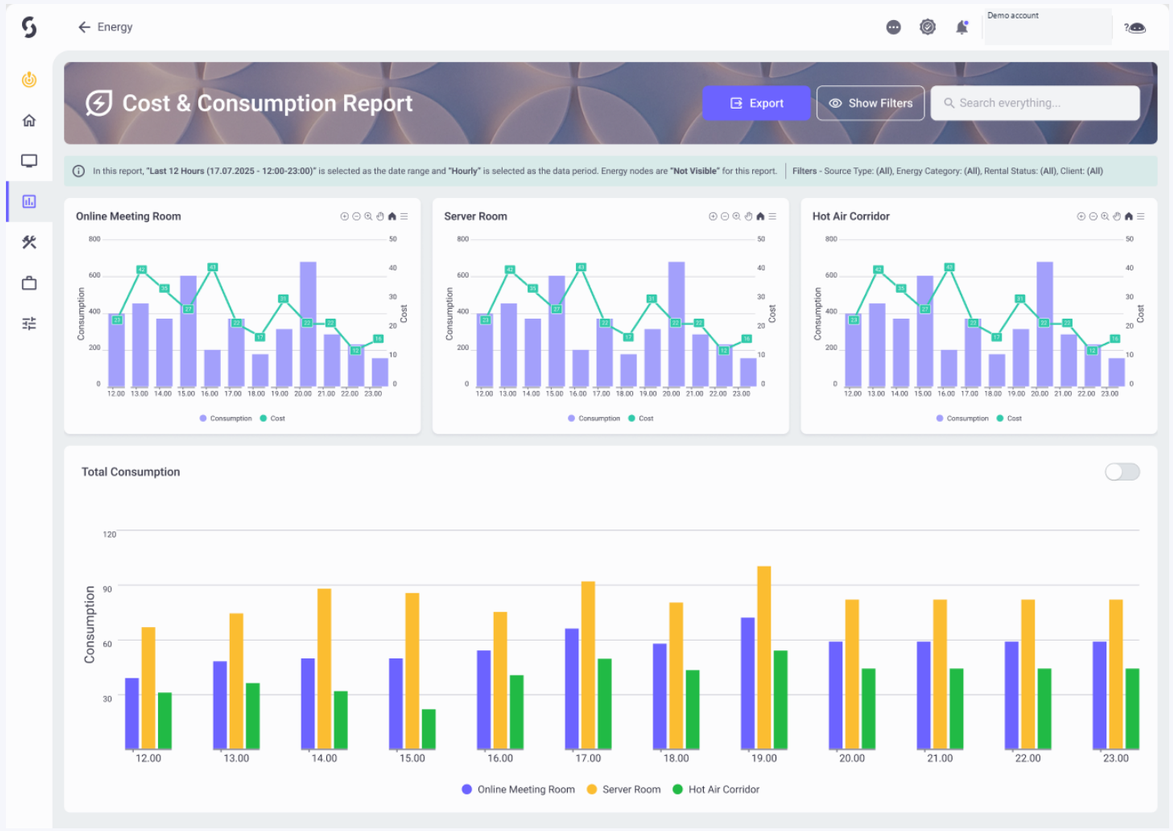
Operators need different reports depending on whether they are reviewing energy costs or efficiency.

DESIGN RESPONSE

Separate the report type from the output format. Show cost and PUE choices alongside table and chart options, then reveal the relevant inputs.

ENERGY REPORTS

Compare cost and consumption over time



Cost and Consumption Report / Hourly results and location comparison

DESIGN CHALLENGE

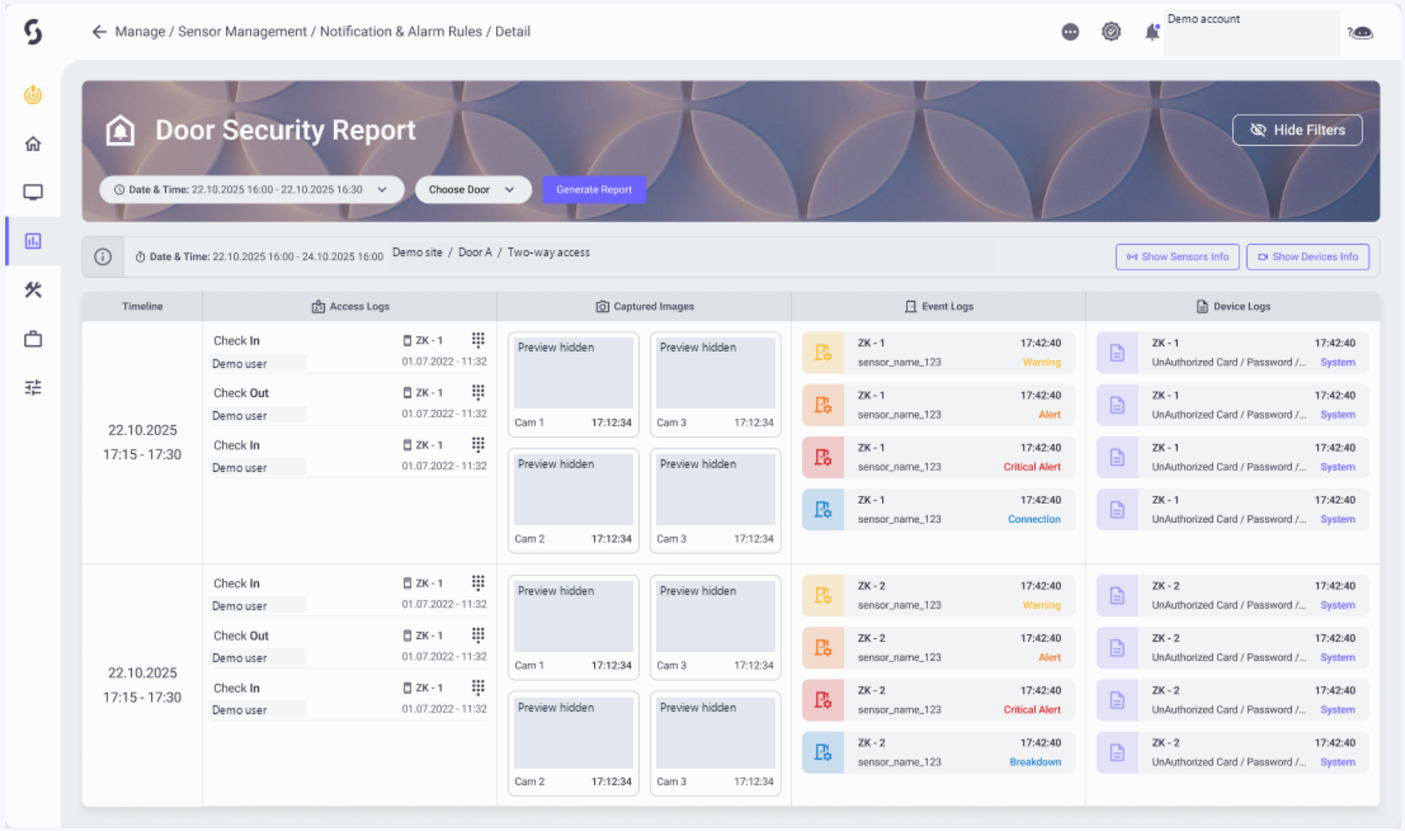
A report has to support both an individual location review and a comparison across locations.

DESIGN RESPONSE

Use a consistent chart for each location, then group consumption in a shared comparison chart. Keep the report criteria and export action visible.

PHYSICAL SECURITY

Reconstruct an access event



Door Security Report / Identifiers and camera previews removed

DESIGN CHALLENGE

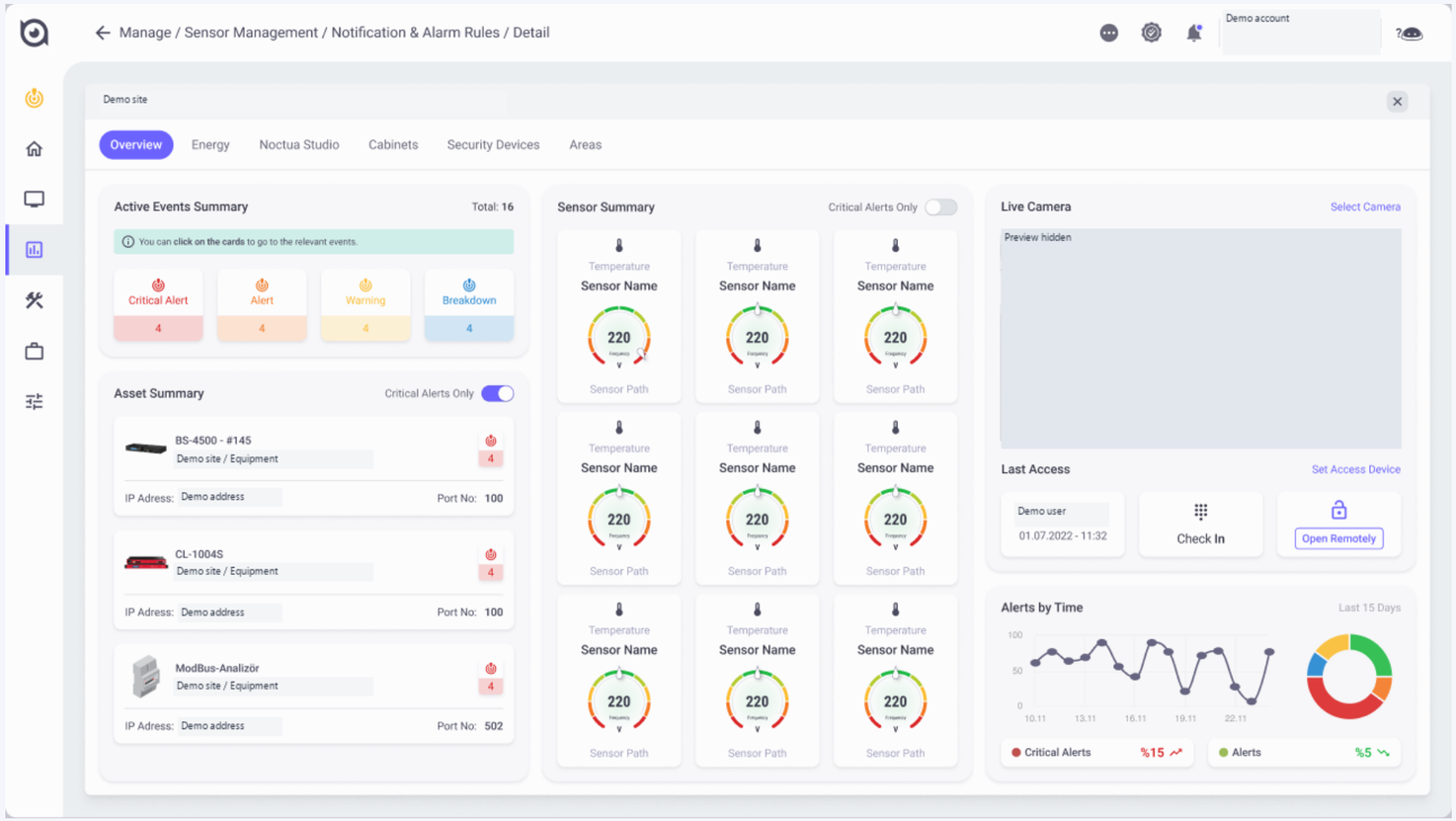
An investigation can involve access records, camera captures and multiple kinds of logs.

DESIGN RESPONSE

Align the evidence by time window. A row keeps the access action, related images, event severity and device records together for comparison.

STRUCTURAL DETAIL

See what needs attention at a site



Structural Detail / Site overview with representative identifiers

DESIGN CHALLENGE

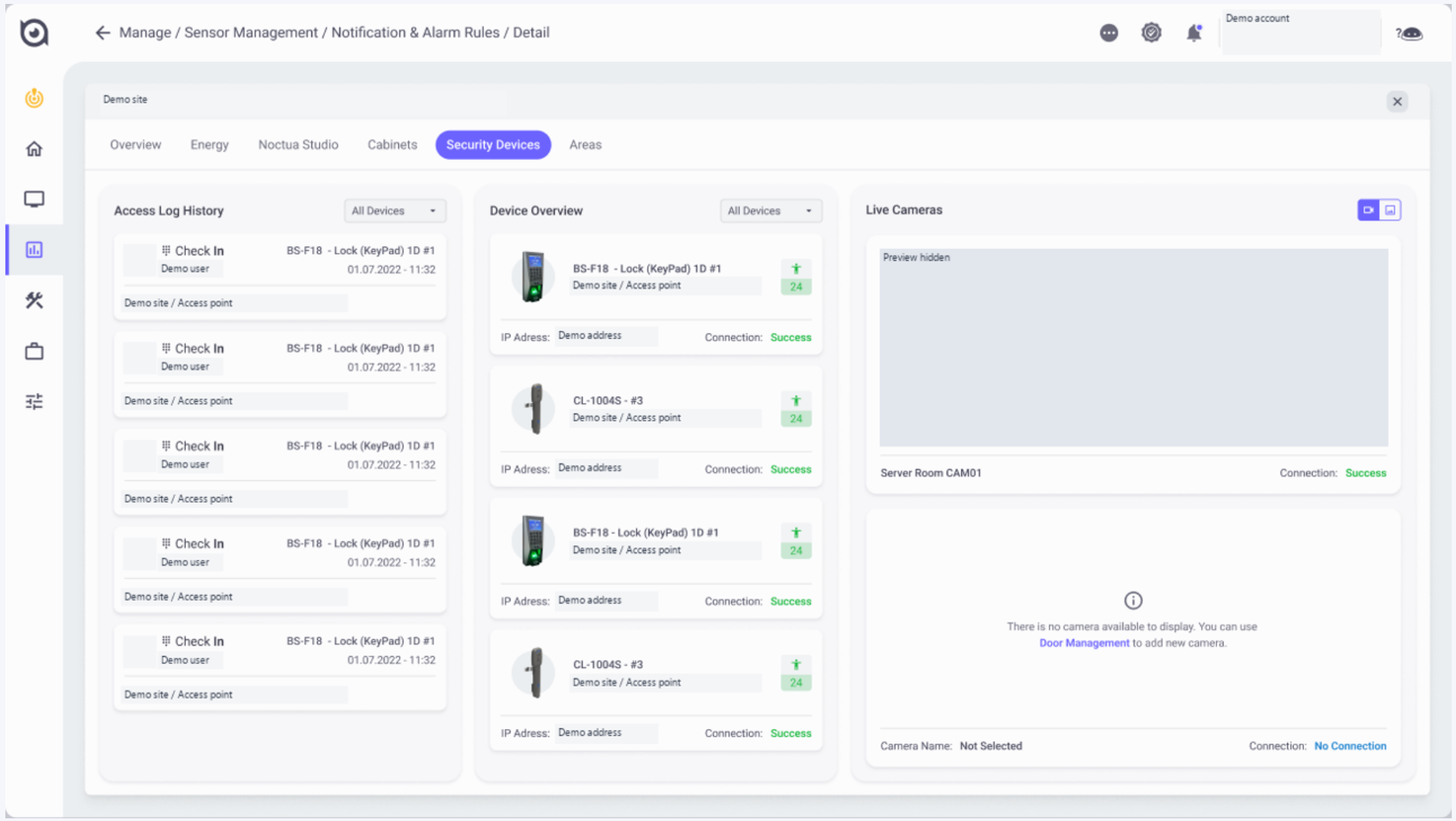
A site can have active events, multiple monitored assets and many sensor readings at once.

DESIGN RESPONSE

Group events, assets and sensor readings in separate panels. Keep the site context visible while offering tabs for more focused views.

STRUCTURAL DETAIL

Review security devices in site context



Structural Detail / Security devices and camera states

DESIGN CHALLENGE

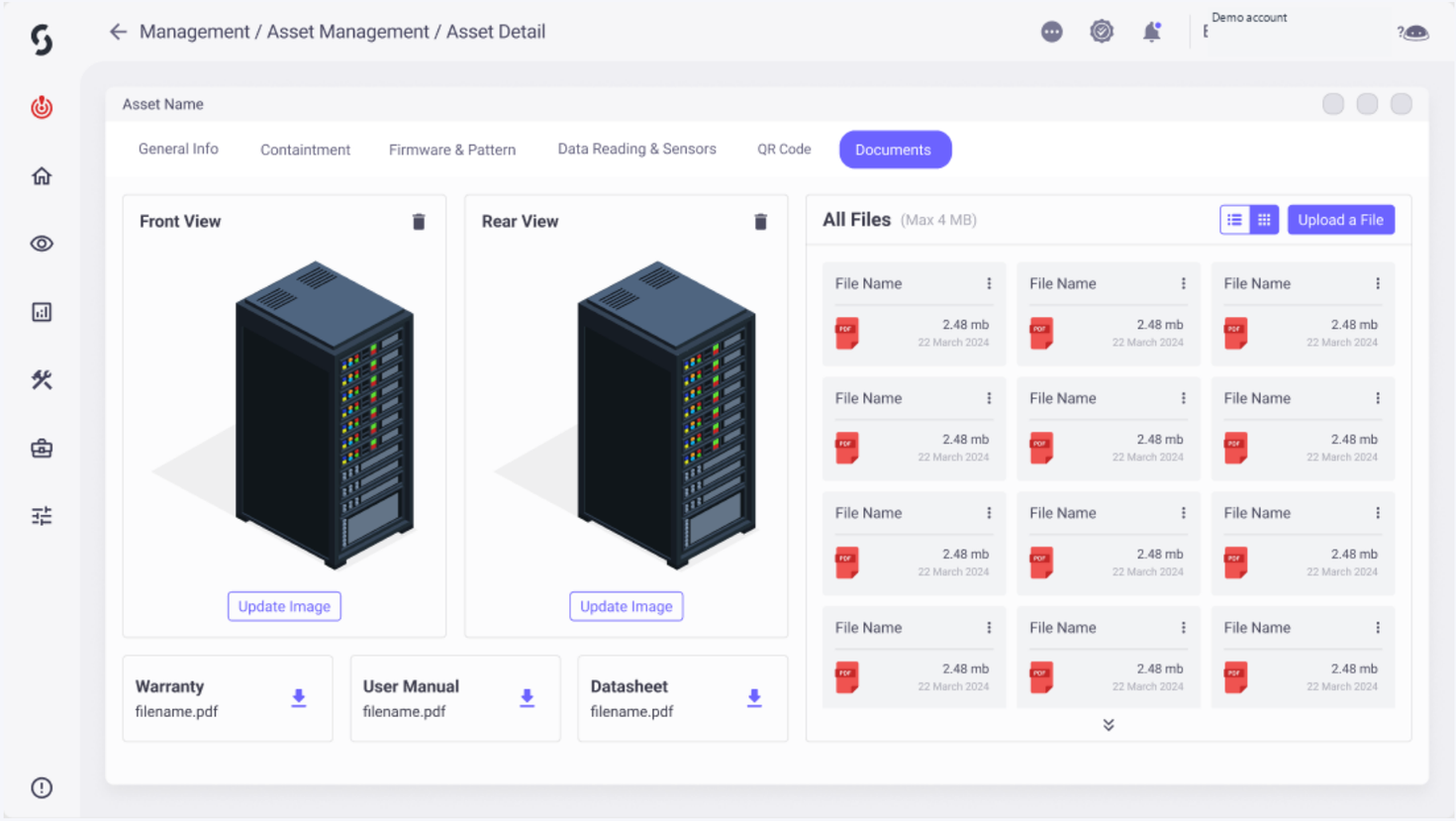
Operators need to check access activity alongside device and camera availability for the same site.

DESIGN RESPONSE

Keep access history, device connection state and camera availability in separate columns. Make an unconfigured camera visible as a distinct state.

ASSET MANAGEMENT

Keep equipment context with its documents



Asset detail / Documents view

DESIGN CHALLENGE

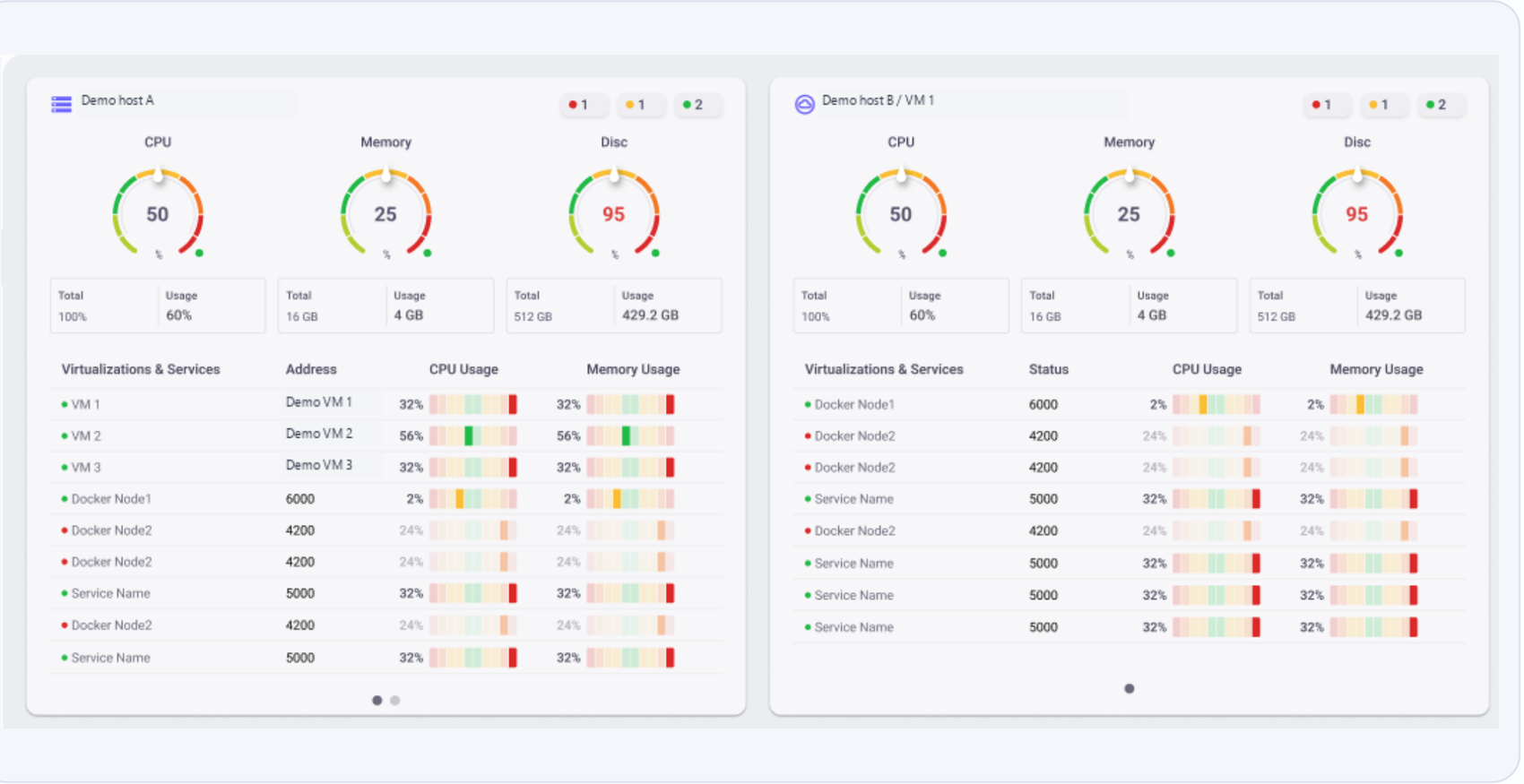
Equipment information spans specifications, sensor data and supporting files. The operator still needs to know which asset they are viewing.

DESIGN RESPONSE

Keep the asset and tab context visible. Group front and rear visuals with frequently used files, while leaving room for the full document collection.

SYSTEM MONITORING

Connect server health to service detail



Servers & Services / Representative pair of panels; identifiers removed

DESIGN CHALLENGE

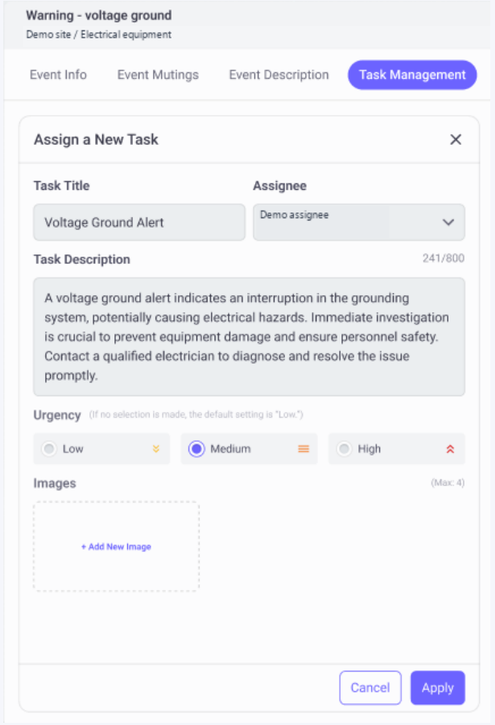
CPU, memory and disk metrics provide an overview. Service-level data helps operators identify where to look next.

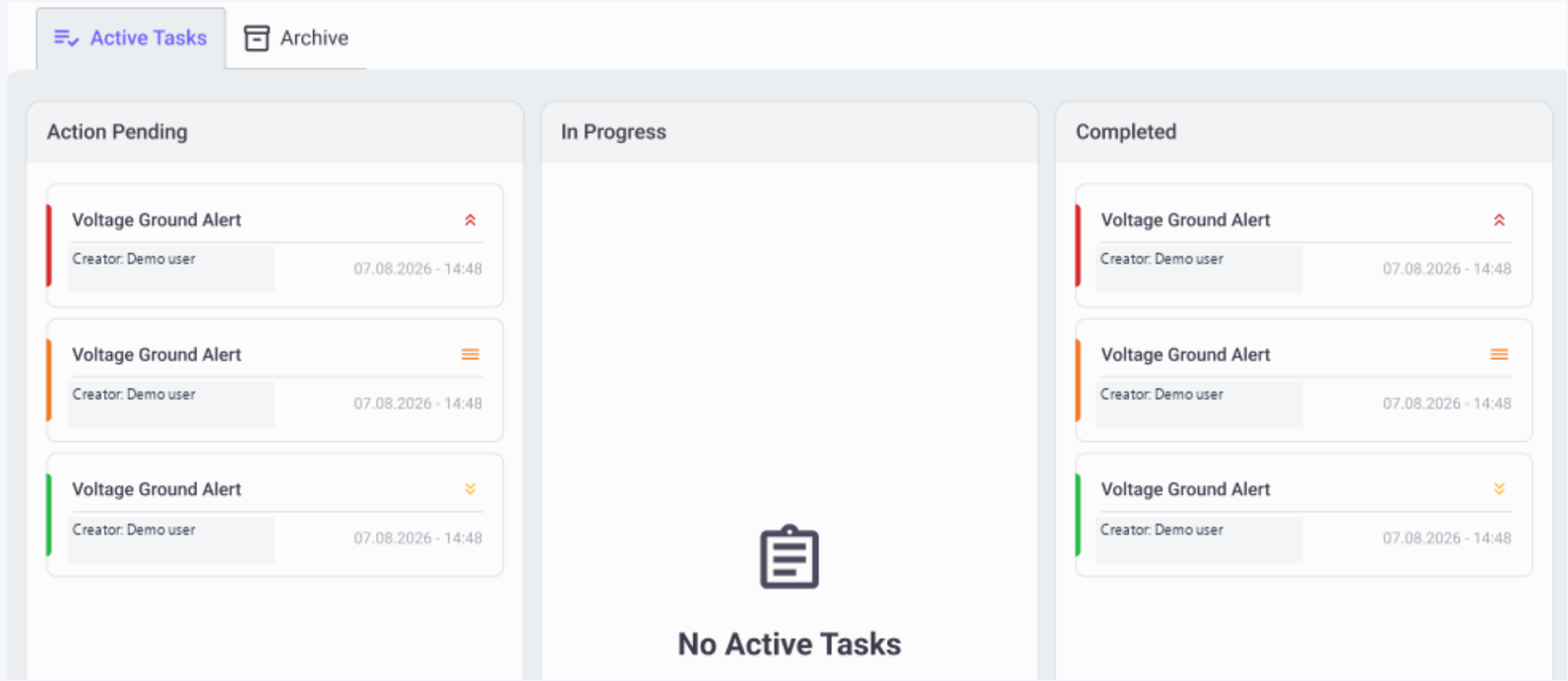
DESIGN RESPONSE

Use a consistent panel to pair resource gauges with virtual machines and service rows. Keep usage indicators in the same columns to support scanning.

TASK MANAGEMENT

Turn an alert into an assigned task





CREATE FROM AN EVENT

Assign an owner and urgency while the originating alert is still visible.

TRACK STATUS AND URGENCY

Group tasks by Action Pending, In Progress and Completed. Keep urgency and ownership visible on each card.

PRODUCT DESIGN AND FRONTEND

Noctua

From Figma to the live web app.

My contribution spanned interface design, widget variants and production HTML/CSS. The examples here show how I structured complex operating data across different equipment, views and tasks in the same product.

LIVE B2B SAAS

WEB PRODUCT DESIGN

PRODUCTION HTML/CSS

Selected screens from the Noctua design file. Some identifiers and camera previews are removed.