

PRODUCT INTRODUCTION

One connected record for assets, work, safety and materials

Oprelia EAM for manufacturing, process industry, energy and ports — every inspection, work order, permit, part and figure linked across all sites of a group.

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Summary

Oprelia EAM for manufacturing, process industry, energy and ports — every inspection, work order, permit, part and figure linked across all sites of a group.

Thalvora Industrial Group (fictitious) runs a gas-processing plant, two thermal power plants, a hydropower plant, a repair-services company and an international seaport. All of them work in one Oprelia installation at head office.

Manufacturing and process industry

Production lines and process units, rotating equipment, utilities; permits for hot work and confined space with gas tests; management of change with pre-start-up review; quality and non-conformance; an equipment board that follows the production runs.

Energy

Generating units with states per IEEE 762 and availability factors; outages and overhauls; shift logbook and rounds; emissions from fuel and electricity.

Ports and terminals

Cranes and yard equipment with meters in hours and moves; an equipment board that follows the vessel calls, breakdowns reported from the cab, PM in the gaps between calls; lifting gear examined before issue; structural inspections.

What this document shows

- Why the links between records matter, and the one idea behind the product.
- One day across the group's sites — power plant, stores, head office, seaport — each step a screen of the product.
- All modules, from assets and work to safety, people, operations, shift rosters, equipment dispatch and its link to the site's operations system, and reports — and how key users adapt the product without programming.
- How the product is deployed, and what a pilot involves.

About the screenshots

Every screenshot is taken from the product with the English interface. Companies, people and places in the sample data are invented; equipment manufacturers are real brands.

1

The problem: the links are missing

In most plants the facts about one machine are spread over tools that do not know about each other.

Separate tools, separate truths

- Work orders in one system, permits on paper, isolation records in a binder, spare parts in a spreadsheet, purchases in the ERP.
- None of them answers the question of the day: can this job start safely, now, with the parts it needs?
- Figures reach management without the records behind them, so every review starts with an argument about the numbers.

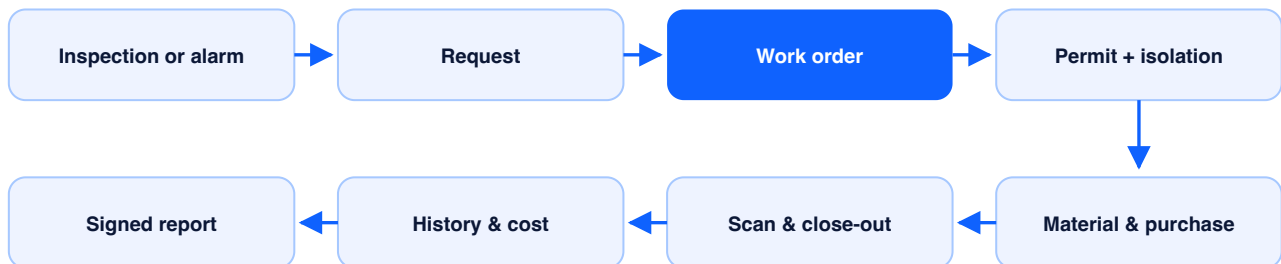
What a missing link costs

- A job starts while its permit is suspended.
- A machine waits for a part nobody ordered.
- An expired inspection certificate is found at the audit, not before the lift.
- The same failure returns because nobody checked the corrective action worked.
- Cost per asset is guessed, so repair-or-replace is decided on opinion.

2

One idea: every record tied to the records it depends on

A work order knows its asset, request, permits, isolation, parts, labour and cost — and the system checks those links before work starts.



Checked before work starts

No start without the permit, the isolation, a valid certificate and qualified people — the plant chooses warn or block.

Figures you can open

Every indicator is recomputed from the records and opens on them; missing data is said, never guessed.

No orphan records

Stock moves only with a document; a corrective action closes only when its effect is verified.

Thalvora Industrial Group (fictitious) runs a gas-processing plant, two thermal power plants, a hydropower plant, a repair-services company and an international seaport. All of them work in one Oprelia installation at head office.

POWER PLANT

The outgoing shift leader hands over with two signatures: equipment out of service, permits and isolations in force. Nothing is lost between shifts.

- The shift hands over — on the record

07:10

POWER PLANT

An operator round finds a reading out of limits

Each round point has warning and alarm limits. An alarm raises a maintenance request on the right asset, with the reading attached.

Home

Maintenance

Safety

Operations

Supply

People

Reports

Home

Maintenance

Operator rounds

Find a module or section...

Thalvora Thermal Power 1 — SAMPLE DATA

Scan

15

Shop Floor

Trần Đức Thịnh

Maintenance manager

Maintenance

Operator rounds

49

Report a fault

Operator rounds

Shift inspection rounds: readings against warning and alarm limits; an alarm raises a maintenance request.

Due now

Points & trends

Rounds

Compliance

Condition rules

Current shift: C2 · 14:00–22:00

Refresh

R-AUX-A

Due

Auxiliary equipment round — every shift

Turbine hall · Shift 2

0/10

Deadline 22:30 · 7 h 46 min left

R-AUX-A — Auxiliary equipment round — every shift

Turbine hall · 0 of 10 points recorded · Deadline 22:30 · 7 h 46 min left

Start round

Record 0 readings

#	Measurement point	Limits	Reading	Evaluation	Note	Outcome
1	Drive-end bearing temperature — Water-tube boiler, unit 1 BOILER-01-BRG-DE-T · BOILER-01	Warn ≥ 75 · Alarm ≥ 85 °C		°C	Not recorded	optional
2	Drive-end bearing vibration — Water-tube boiler, unit 1 BOILER-01-VIB-DE · BOILER-01	Warn ≥ 4.5 · Alarm ≥ 7.1 mm/s		mm/s	Not recorded	optional
3	Lube oil level in the green band — Water-tube boiler, unit 1 BOILER-01-OIL-LVL · BOILER-01	Pass / fail	Pass Fail		Not recorded	optional
4	Discharge pressure — Water-tube boiler, unit 1 BOILER-01-DISCH-P · BOILER-01	Warn ≤ 5 / ≥ 9 · Alarm ≤ 4 / ≥ 10 bar		bar	Not recorded	optional
5	Drive-end bearing temperature — Water-tube boiler, unit 2	Warn > 75 · Alarm > 85.5 °C		°C	Not recorded	optional

- An operator round finds a reading out of limits

08:00

POWER PLANT

The technician scans the pump — no typing

The phone shows what is safe to know first — permits in force on this pump — then the open work. One tap opens the job.

Thalvora Thermal Power 1 — SA...

Smart Scanner

Permits on this asset

PTW-ND1-R10-03 · Work at height · Active

PTW-ND1-R10-01 · Hot work · Active

Condensate pump No. 1

PUMP-COND-01 · Criticality B

ND1-KV-TB

4 open work order(s) · WO-NMND1-2026-00305 In progress

PL 1 other person(s) working now

Last done: WO-NMND1-2026-00260 · Replace the leaking mechanical seal — Condensate pump No. 1 2026-10-05

Open the work order

4 open orders — you choose next

Report a fault

Asset details

history, documents, parts

Scan another code

Android

Thalvora Thermal Power 1 — SAMPL

Smart Scanner

Permits on this asset

PTW-ND1-R10-03 · Work at height · Active

PTW-ND1-R10-01 · Hot work · Active

Condensate pump No. 1

PUMP-COND-01 · Criticality B

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Open the work order

4 open orders — you choose next

Report a fault

Asset details

history, documents, parts

Scan another code

iOS

- The technician scans the pump — no typing

08:30

POWER PLANT

The crew signs on to the permit with badges

Each person scans a badge. Training, certificates and fitness are checked again every time the permit is opened; a blocked person is named with the reason.

Home

Safety

Permits to work

Safety, health & environment

Permits to work

33

Permits to work

Electronic permit to work: request, checklist, approval, gas tests, handover and close-out · Thalvora Thermal Power

Work authorised now

3

Waiting for approval

0

Hot work in progress

1

Permit no.	Permit type	Work and location
PTW-ND1-R10-01	Hot work	Hydraulic oil leak, replace hose and Condensate pump No. 1 — PUMP-COND-01
PTW-ND1-R10-02	Electrical work	Fix loss of output voltage of high-voltage Electrostatic precipitator (ESP) field 1 — ESP-01
PTW-ND1-R10-03	Work at height	Replace non-drive-end ball bearing Condensate pump No. 1 — PUMP-COND-01
PTW-ND1-MB-01	Hot work	Weld repair of pipe support at Steam turbine, unit 1 — TURB-ST-01
PTW-ND1-MB-01-2	Hot work	Weld repair of pipe support at Synchronous generator, unit 1 — GEN-01
PTW-ND1-MB-01-1	Hot work	Weld repair of a pipe support at steam turbine, unit 1 — TURB-ST-01
CSE-ND1-261007-00060	Confined space entry	Enter furnace of water-tube boiler U Boiler house — BOILER-02
HWP-ND1-261007-00060	Hot work	Install low-NOx burners on boiler 2 Boiler house — BOILER-02
CSE-ND1-261007-00232	Confined space entry	Fix loss of output voltage of high-voltage Electrostatic precipitator (ESP) field 1
EPW-ND1-261007-00232	Electrical work	Fix loss of output voltage of high-voltage Electrostatic precipitator (ESP) field 1
PTW-ND1-261006-E01	Electrical work	Clean, contact resistance measurement 6.6 kV circuit breaker, feeder 1 A — withdraw Internal inspection, hydrostatic test

PTW-ND1-R10-01

Active Hot work · Condensate pump No. 1 — PUMP-COND-01

Request

Review

Approved

Work in progress

Closed

22/10/2026, 12:12

22/10/2026, 12:42

22/10/2026, 12:42

10 hours left

Permit

Gates & controls

Work party

Checklist

Signatures

Gas tests

History

Camera

No toolbox talk recorded yet.

The work party is locked once work is authorised.

Sign on with badge

2 signed on

Scan with camera

Ready — present a badge to the scanner or card reader

Name	State	Since
Phạm Quốc Bảo	On the crew	
Trần Văn Hùng	Signed on	19/10/2026, 16:49 Sign off (absent)
Lê Minh Tuấn	Signed on	19/10/2026, 16:49 Sign off (absent)
Nguyễn Hữu Tài · Công ty Dịch vụ sửa chữa Thalvora	On the crew	

Person	Role on the permit	Competence	Toolbox acknowledged
Trần Văn Hùng	Permit holder	Eligible At addition: Eligible	—

- The crew signs on to the permit with badges

09:15

POWER PLANT

Isolation everyone can see

The isolation QR at the machine shows “Isolated — do not operate”, the isolation points and who holds a personal lock.

Thalvora Thermal Power 1 — SA...

Scanned code

ISOLATED — DO NOT OPERATE

Isolated — work in progress · valid until 10/23, 12:12 AM

Electrostatic precipitator (ESP) field 1

LOT0-ND1-R10-01 · ESP-01

Energy isolation for WO-NMND1-2026-00232: rectifier of ESP field 3 lost output voltage — Electrostatic precipitator (ESP) field 1

Isolation points (2)

IP-01 · Electrical · Verified

MCC cabinet — feeder bay ESP-01

Withdrawable circuit breaker · lock LOCK-ND1-R10-1 · tag TAG-ND1-R10-1

Zero energy proven (0 V)

IP-02 · Electrical · Verified

Local disconnector ESP-01

Disconnector · lock LOCK-ND1-R10-2 · tag TAG-ND1-R10-2

Zero energy proven (0 V)

Personal locks on (4)

Android

Thalvora Thermal Power 1 — SAMPL

Scanned code

ISOLATED — DO NOT OPERATE

Isolated — work in progress · valid until 10/23, 12:12 AM

Electrostatic precipitator (ESP) field 1

LOT0-ND1-R10-01 · ESP-01

Energy isolation for WO-NMND1-2026-00232: rectifier of ESP field 3 lost output voltage — Electrostatic precipitator (ESP) field 1

Isolation points (2)

IP-01 · Electrical · Verified

MCC cabinet — feeder bay ESP-01

Withdrawable circuit breaker · lock LOCK-ND1-R10-1 · tag TAG-ND1-R10-1

Zero energy proven (0 V)

IP-02 · Electrical · Verified

Local disconnector ESP-01

Disconnector · lock LOCK-ND1-R10-2 · tag TAG-ND1-R10-2

Zero energy proven (0 V)

iOS

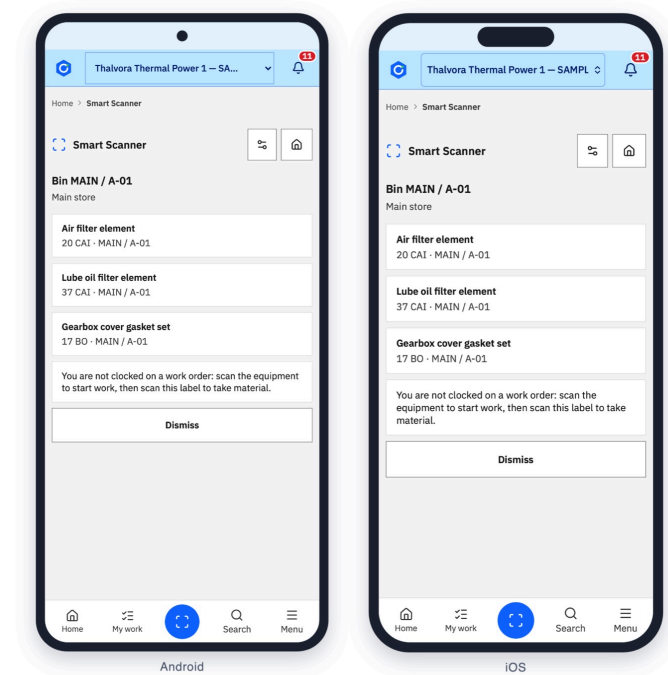
- Isolation everyone can see

STORES

10:30

A bin label tells what is in it

Scanning a bin or lot label shows the contents, lots and expiry; for the technician's job it offers a one-tap issue, earliest-expiring lot first.



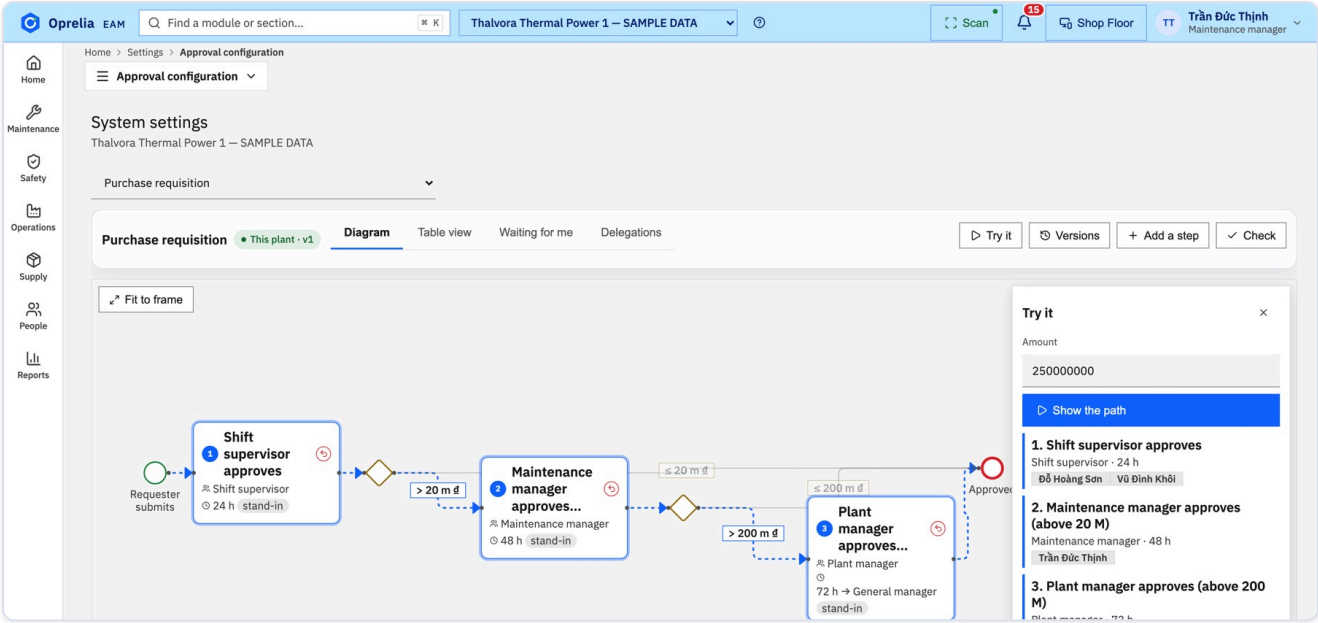
A bin label tells what is in it

HEAD OFFICE

11:30

A purchase follows the company's own approval rules

The rules are drawn as a flow. “Try it” shows the path a 250 million đ purchase takes and who will be asked.



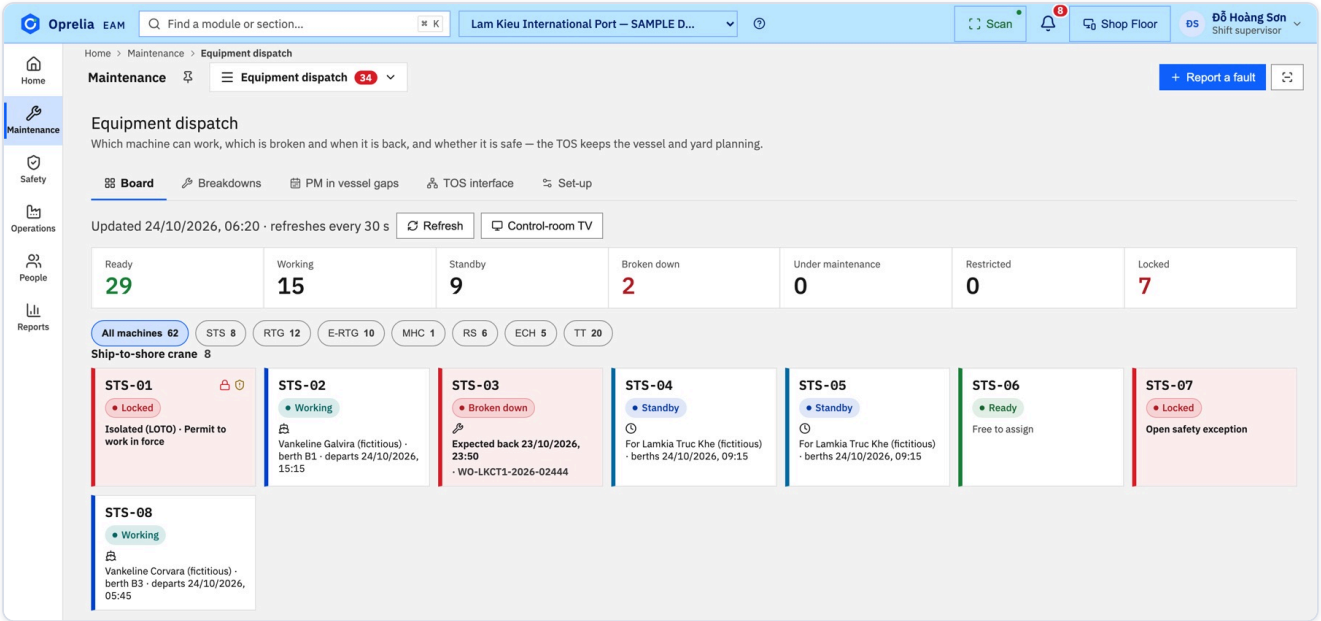
A purchase follows the company's own approval rules

14:00

SEAPORT

The equipment board follows the operations plan

At the seaport the plan is the vessel calls; in a plant it would be the production runs. The board shows which machine is working, on standby, broken down, under maintenance or locked for safety — also on the control-room TV.



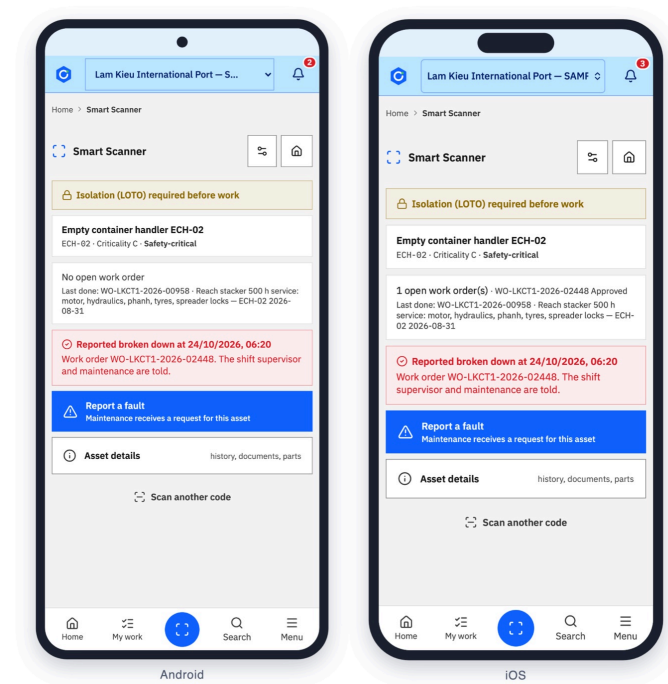
- The equipment board follows the operations plan

14:20

SEAPORT

A breakdown reported from the cab in one tap

The driver scans the QR code on the cab and taps once. An emergency work order is raised, the shift supervisor and maintenance are told, and the board proposes a standby machine. Nothing is typed.



- A breakdown reported from the cab in one tap

STORES

16:00

A wrong delivery becomes a non-conformance

A rejected receipt raises a non-conformance report linked to the order, the vendor and, if needed, a corrective action.

Oprelia EAM

Find a module or section...

Thalvora Thermal Power 1 — SAMPLE DATA

Scan

15

Shop Floor

TT

Trần Đức Thịnh

Maintenance manager

Home

Maintenance

Non-conformances

49

Report a fault

Non-conformances (NCR)

What did not conform — at receiving, on equipment or in a process — and how it was contained, resolved and verified

Not closed

Open

Resolved

Closed

All

Number, title, lot or order

Raise an NCR

Number	What does not conform	Severity	Linked to	Detected	Status
NCR - NWND1-2026-00002	Rejected at receiving: PO-20261007-1B6D880B / SC-FLT-AIR Non-conforming material	Medium	PO-20261007-1B6D880B · V-SC04	10/10/2026	Open
NCR - NWND1-2025-00001	Rejected at receiving: PO-20251004-3260BDBE / BRG-22228 Non-conforming material	Medium	PO-20251004-3260BDBE · NCC-PN	27/10/2025	Open
NCR - NWND1-2026-00001	Rejected at receiving: PO-20260404-75EEF53E / SC-LUB-GEAR320 Non-conforming material	Medium	PO-20260404-75EEF53E · V-SC01	11/04/2026	Open

- A wrong delivery becomes a non-conformance

SEAPORT

16:25

The board says when the terminal's data is late

The vessel schedule and the crane assignments come from the terminal's operations system; nobody types them again. When it has sent nothing for an hour, the dispatch desk and the control-room TV say since when; breakdowns and safety locks on the board stay current.

Equipment board — Lam Kieu International Port — SAMPLE DATA

Updated 24/10/2026, 18:08 · Dispatch control-room TV (demo)

TOS feed delayed since 24/10/2026, 15:20: ship assignments may be out of date.

Vankeline Dalvessa (fictitious)

departs 09:15 · 49 / 700 moves

STS-01

STS-02

STS-03

Berth B1

TT-04

TT-06

TT-11

TT-13

TT-18

Yard A (B1)

RTG-14

RTG-15

RTG-21

Mobile machines

RS-01

RS-02

RS-03

RS-04

RS-05

RS-06

ECH-01

ECH-02

ECH-03

ECH-04

ECH-05

TT-07

TT-09

TT-10

TT-12

TT-16

TT-17

TT-20

Lamkia Minh Chau (fictitio...

departs 11:45 · 139 / 960 moves

MHC-01

STS-07

STS-08

Berth B2

TT-02

TT-08

TT-14

TT-15

TT-19

Yard B (B1)

RTG-10

RTG-16

RTG-22

Yard C (B2)

RTG-06

RTG-11

RTG-18

Yard D (E-RTG)

RTG-07

RTG-12

RTG-19

Workshop

No machine in Workshop

29 Ready

16 Working

8 Standby

2 Broken down

0 Under maintenance

0 Restricted

7 Locked

Berth hours lost today

1.6

Broken down

STS-02 · Expected back 25/10/2026, 17:41

STS-03 · Expected back 23/10/2026, 23:50

Next arrivals

Lamkia Kim Sa (fictitious)

berth B2 · 24/10/2026, 20:30

Lamkia Cau Vong (fictitious)

berth B1 · 25/10/2026, 13:45

Lamkia Ha Vy (fictitious)

berth B2 · 25/10/2026, 18:15

Lamkia Dong Kha (fictitious)

berth B3 · 25/10/2026, 19:15

Ready

Working

Standby

Broken down

Under maintenance

Restricted

Locked

Quay exclusion zone

- The board says when the terminal's data is late

Sample data is fictitious

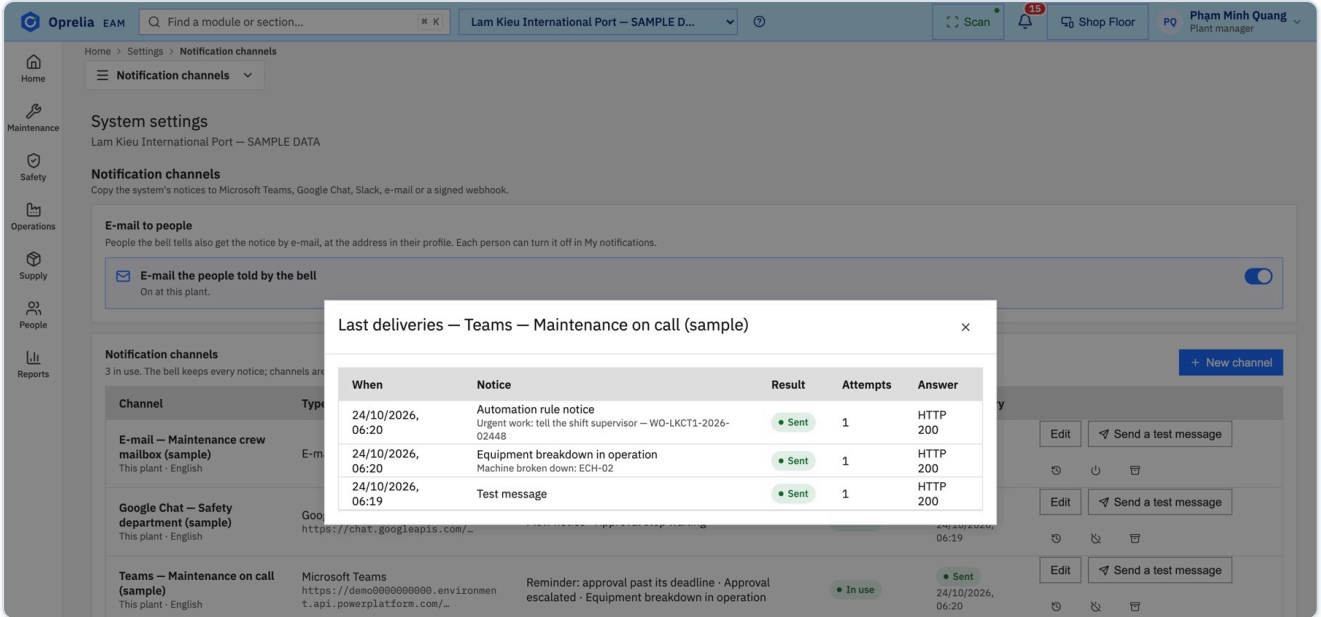
10 / 38

16:45

SEAPORT

The notice reaches the team’s chat

A “when ... then ...” rule written by the maintenance manager tells the shift supervisor of every urgent job; the notice is also copied to the maintenance team’s Microsoft Teams channel, with a delivery log for every message.



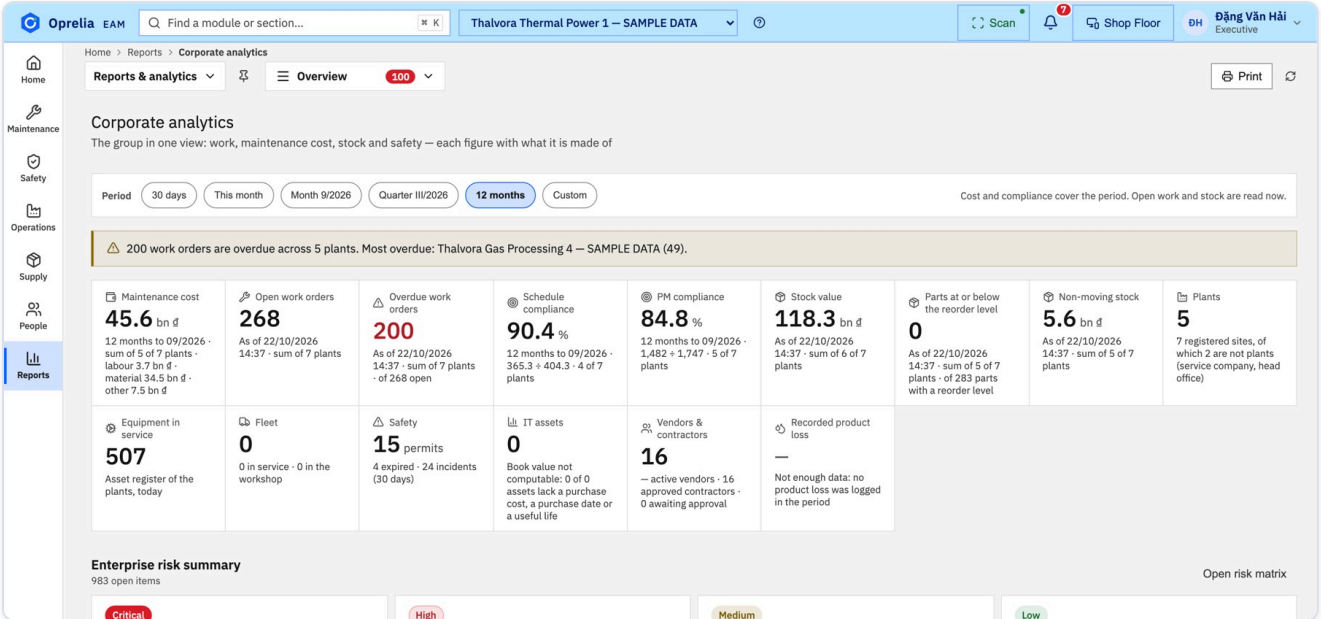
- The notice reaches the team’s chat

17:30

GROUP

Management sees every site side by side

Indicators of every plant, each recomputed from its records and open down to them.



- Management sees every site side by side

18:00

SEAPORT

The night shift takes over — notices follow the roster

At six the roster hands the duties to the night shift: shift leader, dispatcher, technician on call. Breakdowns and escalations now reach them, not everyone with the role. When a duty holder cannot be told, the notice goes to the whole role — and that is recorded.

Home

Maintenance

Safety

Operations

Supply

People

Reports

Find a module or section...

Lam Kieu International Port — SAMPLE D...

Scan

Shop Floor

Trần Đức Thịnh
Maintenance manager

Maintenance

Settings

34

Maintenance settings

Lam Kieu International Port — SAMPLE DATA

Crews & capacity

Shift roster

Craft rates

Required training

Escalation

Safety gate

PM engine

Purchase approvals

Who is on duty now

Night shift 18:00–06:00

Shift leader

Đỗ Hoàng Sơn

Dispatcher on duty

Mai Thị Hồng - no login: cannot be told

Technician on call

Nguyễn Văn Tâm

Crew

Bùi Văn Thịnh, Dương Quang Khánh, Lê Quang Ngân, Nguyễn Đức Tuấn, Ngô Công Tâm, Phan Đức Hiếu, Trịnh Thanh Phong, Vũ Công Duy, Đỗ Thanh Long

Last notices sent to the whole role

24/10/2026, 17:41 - Equipment breakdowns in operation — The person on duty has no login: sent to the whole role (The dispatcher on duty)

Time zone of the roster: Asia/Ho_Chi_Minh

Shift roster

19/10/2026 – 25/10/2026

This week

Copy this week

Rotation

Absence

Shift	Mon 19/10	Tue 20/10	Wed 21/10	Thu 22/10	Fri 23/10	Sat 24/10	Sun 25/10
Day shift 06:00–18:00	Vũ Thanh Lâm Shift leader	Vũ Thanh Lâm Shift leader	Hoàng Văn Bình Shift leader	Hoàng Văn Bình Shift leader	Huỳnh Công Quân Shift leader	Huỳnh Công Quân Shift leader	Phan Ngọc Phong Shift leader

- The night shift takes over — notices follow the roster

4

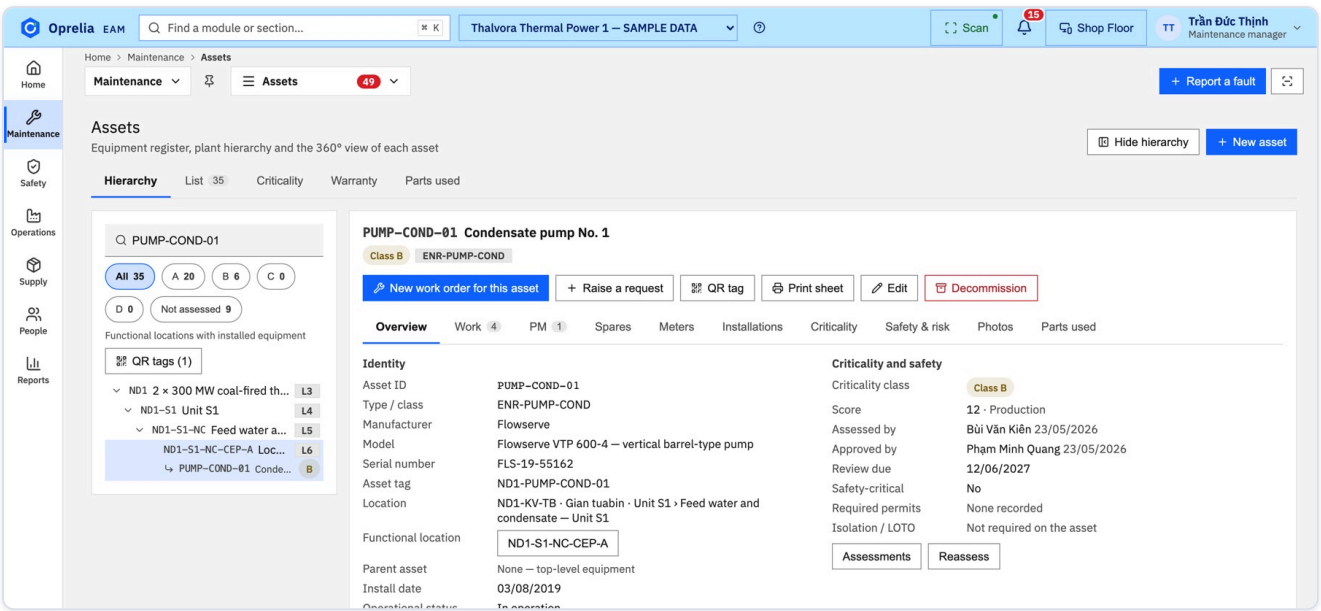
The modules

One set of records across all modules; each can be licensed on its own. The feature catalogue lists every function.

Assets and locations

One register of what each site owns and where it is installed, so every work order, permit, reading and cost lands on the right equipment.

- Functional locations kept apart from serialised equipment, with the history of what was installed where
- Asset classes and failure codes following ISO 14224
- Criticality assessed and approved by a second person
- Several meters per asset (hours, cycles, moves), warranty records



- Asset 360° view of a condensate pump: identity, criticality, safety requirements, reliability.

Work management

Requests triaged, work planned against crew capacity, executed safely and closed with labour, material and cost.

- Request → work order → approval → planning → scheduling → execution → close-out, full status history
- Job steps by craft, crew size and hours; readiness checklist
- Weekly planning board and daily dispatch against crew capacity
- Work-start gate: permit, isolation, certificate and qualification checked

The screenshot displays the Oprelia EAM Work orders interface. On the left, a sidebar shows navigation options: Home, Maintenance, Safety, Operations, Supply, People, and Reports. The main area is titled 'Work orders' and includes a search bar and filters. A table lists several work orders with columns for Number, Work and equipment, and Class. The detailed view on the right shows work order WO-NMND1-2026-00061, which is 'In progress' and 'Corrective'. It describes the task: 'Replace the safety valve of control air receiver PV-IA-01 (lifts at 9.6 bar instead of 8.5 bar) — PV-IA-01 - Instrument air receiver'. A red banner indicates a 'Safety exception open — this work order cannot be closed until it is approved or closed'. Below this, a status bar shows the work order is 'In progress'. The 'Overview' section on the right provides details about the work to be done, equipment, work class, priority, lead craft, planned/actual hours, assignee, permits and isolation, and request/approval dates.

Number	Work and equipment	Class
WO-NMND1-2026-00343	Quarterly maintenance — lubrication, tighte... CT-01 - Cooling tower cell No. 1 B	PM
WO-NMND1-2026-00342	Dirty fan blades found, needs cleaning and ... SWGR-MV-01 - 6.6 kV medium-voltage switchgear — ...	Corrective
WO-NMND1-2026-00337	Overheating bearing detected, bearing need... CONV-C2 - Coal conveyor line C2 A	Corrective
WO-NMND1-2026-00332	Cracked cable insulation found at the termin... CRN-TURB-01 - Turbine hall overhead crane A	Corrective
WO-NMND1-2026-00327	Oil leak found at shaft seal, seal needs repla... LIFT-BLR-01 - Boiler house passenger lift A	Corrective
WO-NMND1-2026-00322	Flange corrosion found, needs cleaning and ... FAN-ID-01 - Induced draft fan No. 1 B	Corrective
WO-NMND1-2026-00317	Passing valve detected, valve stem gasket n... TURB-ST-02 - Steam turbine, unit 2 A	Corrective
WO-NMND1-2026-00312	Loose base bolts found, needs tightening an... MILL-02 - Coal mill No. 2 A	Corrective
WO-NMND1-2025-00055	Worn drive belt found, belt set needs replac... LIFT-BLR-01 - Boiler house passenger lift A	Corrective
WO-NMND1-2026-00305	Hydraulic oil leak, replace hose and realign ... PUMP-COND-01 - Condensate pump No. 1 B	Corrective

WO-NMND1-2026-00061 • In progress • P1 • Corrective

Replace the safety valve of control air receiver PV-IA-01 (lifts at 9.6 bar instead of 8.5 bar) — PV-IA-01 - Instrument air receiver

Buttons: Complete, Waiting for material, Put on hold, Cancel work order

Safety exception open — this work order cannot be closed until it is approved or closed
EXC-NMND1-2026-0005 Safety-critical element impaired • Under review • High Waiting for: HSE Open in register

Filters: Requested, Approved, Planned, Scheduled, **In progress**, Completed, Closed

Overview: Plan, Safety, Execution, Costs, Failure report, Attachments, History

Flagged for review: started while a permit or isolation was missing (warning mode)

Overview

Work to be done: Replace the safety valve of control air receiver PV-IA-01 (lifts at 9.6 bar instead of 8.5 bar)

Equipment: **PV-IA-01** Instrument air receiver Criticality A Safety-critical

Work class: Corrective

Priority: P1

Lead craft: Mechanical fitter

Planned / actual hours: 6 h / 10 h - Crew size 2

Assign to: Nguyễn Văn Tâm

Permits and isolation: LOTO

Requested: Trần Đức Thịnh · 06/10/2026, 18:06

Approved: Trần Đức Thịnh · 06/10/2026, 18:06

- Work order with its lifecycle, safety exception and planning data.

Preventive maintenance

Planned work instead of firefighting, organised the way large EAM systems do it.

- PM by calendar or by several meters, on equipment, locations or routes
- Generate ahead for an outage; job-plan sequences; seasons
- Approved deferrals and off-cycle work
- Frozen 52-week plan and compliance counted per occurrence

Preventive maintenance
Thalvora Thermal Power 1 — SAMPLE DATA · PM programme, forecast and compliance

PM programme 52-week forecast Compliance Job plans Engine runs Plans of record Templates and routes

Q Search code, task or asset All crafts All types Show inactive Print list

All 25 Past due date 9 Due 2 Scheduled 14

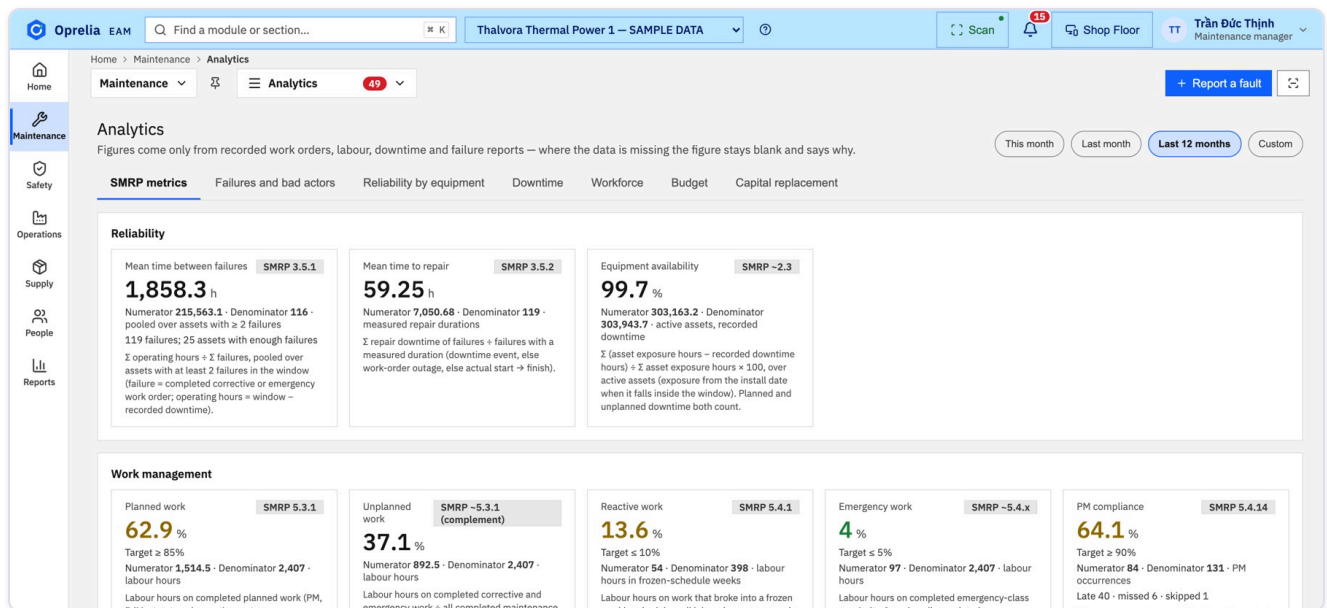
Code	Description	Asset	Interval / basis	Prio.	Craft	Plan h	Last done	Next due / state ⁺	Open WO
PM-ND1-023	Annual overhaul — dismantle for inspection, replace worn... Job plan: 3P-GEN-A	GEN-02	365 day(s) Floating	P2	Electrician	26 h	09/09/2025	09/09/2026 • Overdue	WO-NMND1-2026-t
PM-ND1-003	6-month maintenance — comprehensive inspection a... Job plan: 3P-STURB-S	TURB-ST-01	180 day(s) Floating	P2	Mechanical fitter	18 h	27/03/2026	23/09/2026 • Overdue	WO-NMND1-2026-t
PM-ND1-006	Quarterly maintenance — lubrication, tighten, protecti... Job plan: 3P-MILL-Q	MILL-01	90 day(s) Floating	P2	Mechanical fitter	6.5 h	01/07/2026	24/09/2026 • Overdue	WO-NMND1-2026-t
PM-ND1-KD-1	Technical safety inspection — Boiler of unit 1 Job plan: 3P-BOILER-KD	BOILER-01	12 month(s) Fixed · Statutory	P2	Mechanical fitter	12 h	25/09/2025	25/09/2026 • Due · inside the window	WO-NMND1-2026-t
PM-ND1-008	Annual overhaul — dismantle for inspection, replace worn... Job plan: 3P-CONV-A	CONV-C1	365 day(s) Floating	P2	Mechanical fitter	28 h	26/09/2025	26/09/2026 • Due · inside the window	WO-NMND1-2026-t
PM-ND1-001	Monthly periodic inspection — rung, bearing temperature,... Job plan: 3P-BOILER-M	BOILER-01	30 day(s) Floating	P2	Mechanical fitter	3.5 h	10/09/2026	10/10/2026 • Overdue	WO-NMND1-2026-t
	Monthly periodic inspection —							11/10/2026	

- PM programme: calendar and meter-based plans, next due and state.

Reliability and failure analysis

Know which machines fail, why, and what it costs — from what really happened.

- MTBF, MTTR, availability, planned vs emergency work, each with numerator, denominator and definition
- Failure reports coded to ISO 14224 (mode, mechanism, cause, detection)
- Bad actors and repeat failures
- Cost per asset and against replacement value



- Maintenance analytics: every figure says how it is computed.

Inventory and stores

The right part, in the right store, reserved for the right job — with one record for every stock move.

- Several storerooms with bins, lots and expiry (first-expired first-out)
- Condition codes and rotating spares with serial numbers
- Reservations: approving a work order reserves its material; short material puts it on hold and releases it when stock arrives
- Counts, transfers, reorder proposals, stock in transit

Opelia EAM

Q Find a module or section... K

Thalvora Thermal Power 1 — SAMPLE DATA

Scan

15

Shop Floor

TT

Trần Đức Thịnh
Maintenance manager

Home

Maintenance

Materials 49

+ Report a fault

Maintenance

Safety

Operations

Supply

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Reports

Home > Maintenance > Materials

Materials

Store stock, ledger, critical spares and transfers between plants

+ New part

Active parts
58

Stock value
17,137,074,707 đ

At or below reorder point
0

Critical-spare gaps
0
class-A assets, below minimum

Stock equals the ledger for all parts.

Stock

Storerooms

Usage

Reservations

Counts

Reorder

Rotating, kits, in transit

Transfers

Analysis

Q Part number or description

All

Below reorder

Critical spares at risk

Inactive

Class

All classes

Print list

Part	Description	Class	Unit	On hand	Committed	Available	Reorder point	Avg cost	Stock value	Spare class	Store location
BELT-SPLICE	Conveyor B1400 splicing kit	CO-KHI	SET	4	0	4	1	38,000,000 đ	152,000,000 đ	Standard	Main warehouse — shelf C2
BOLT-M24	Bolt M24×120 grade 8.8 with nut	CO-KHI	SET	110	3	107	40	85,000 đ	9,350,000 đ	Consumable	Main warehouse — shelf G4
BRAKE-PAD-CRN	Crane hoist electro-hydraulic brake shoe set	NANG-HA	SET	4	0	4	1	8,500,000 đ	34,000,000 đ	Standard	Main warehouse — shelf E3
BRG-22228	SKF spherical roller bearing 22228 CC/W33	OBI-BAC	PCS	4	1	3	1	18,500,000 đ	74,000,000 đ	Critical spare	Main warehouse — shelf H8

- Materials: stock value, reorder levels and the stock balance check.

Purchasing and contracts

Bought through an approval that matches the amount — never by the person who raised it — and measured on real deliveries.

- Requisition → quotation → purchase order → receipt with inspection, rejection and return
- Contracts and price agreements with blanket releases
- Over-receipt tolerance; partial inspection
- Vendor scorecard: on-time, lead time, rejects, price variance

The screenshot displays the Oprelia EAM interface for the Purchasing module. The top navigation bar includes the Oprelia EAM logo, a search bar, and a dropdown menu for 'Thalvora Thermal Power 1 — SAMPLE DATA'. The left sidebar shows navigation icons for Home, Maintenance, Safety, Operations, Supply, People, and Reports. The main content area is titled 'Purchasing' and includes a sub-header 'Requisitions, quotations, purchase orders and contracts — approved by amount, never by the person who raised them'. Below this, there are tabs for 'To approve', 'Requisitions', 'RFQs', 'Purchase orders' (selected), 'Contracts', 'Receiving', 'Vendor performance', and 'Budget variance'. A filter bar shows 'Open' (selected), 'Waiting for approval', 'Approved', and 'All', along with a '+ New purchase order' button. The main table lists purchase orders with columns: Number, Vendor, Raised from, Lines, Total, Created, and Status.

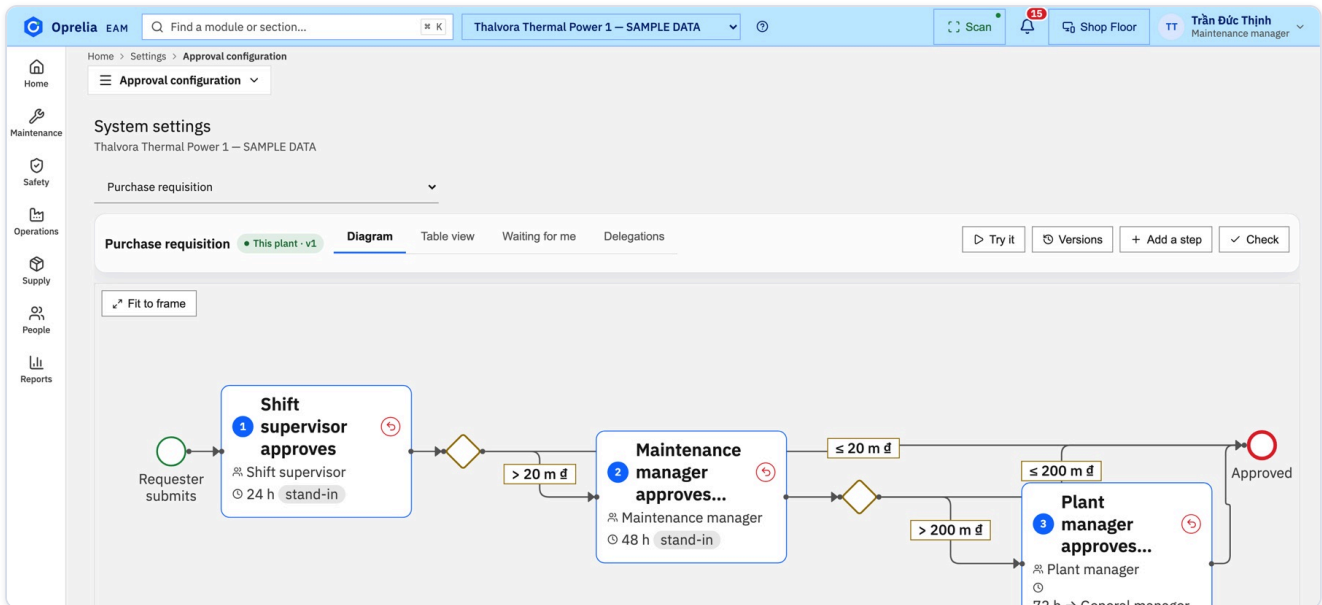
Number	Vendor	Raised from	Lines	Total	Created	Status
P0-20261007-1B6D880B	Dong Phong Ky Equipment and Supplies JSC (fictitious)	By hand	1	7,600,000 đ	07/10/2026	Partly received
P0-20261005-AEED9132	Dong Phong Ky Equipment and Supplies JSC (fictitious)	By hand	1	6,000,000 đ	05/10/2026	Approved
P0-20261004-776783A7	Dong Phong Ky Equipment and Supplies JSC (fictitious)	By hand	1	9,000,000 đ	04/10/2026	Approved
P0-20261001-36024090	Truong Giang Nam Hai Electromechanical Co., Ltd. (fictitious)	By hand	1	41,500,000 đ	01/10/2026	Waiting for approval
P0-20260929-82679308	Truong Giang Nam Hai Electromechanical Co., Ltd. (fictitious)	Requisition	1	174,877,758 đ	29/09/2026	Approved
P0-20261011-310E7ED3	Kim Nguu Hai Repair Workshop Co., Ltd. (fictitious)	Requisition	1	17,500,000 đ	11/10/2026	Approved
P0-20261011-F2423C86	Dong Phong Ky Equipment and Supplies JSC (fictitious)	Requisition	1	608,000 đ	11/10/2026	Approved
P0-20261004-7681D9DA	Dong Phong Ky Equipment and Supplies JSC (fictitious)	Requisition	1	5,472,000 đ	04/10/2026	Approved

- Purchase orders with their approval state.

Approval rules you configure

Every company approves differently. The rules must be easy to read, easy to change, and impossible to bend where safety is at stake.

- Each approval drawn as a flow: who approves, under which condition, time allowed, escalation
- “Try it”: the path of a sample document highlighted with the people asked
- Locked safety steps (permit issuer, area authority, isolation, change safety review, independent verification)
- Nobody approves their own document or two steps of one document



- Purchase approval flow: amount conditions, roles, time allowed, escalation.

Quality and non-conformance

What does not conform is recorded once and followed to its cause.

- Non-conformance reports from receiving, work or process
- Links to equipment, order, receipt, vendor and corrective action
- Disposition and closure with verification

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Home > Maintenance > Non-conformances

Maintenance

Non-conformances 49

Report a fault

Non-conformances (NCR)

What did not conform — at receiving, on equipment or in a process — and how it was contained, resolved and verified

Not closed

Open

Resolved

Closed

All

Q Number, title, lot or order

+ Raise an NCR

Number	What does not conform	Severity	Linked to	Detected	Status
NCR-NMND1-2026-00002	Rejected at receiving: PO-20261007-1B6D880B / SC-FLT-AIR Non-conforming material	Medium	PO-20261007-1B6D880B · V-SC04	10/10/2026	Open
NCR-NMND1-2025-00001	Rejected at receiving: PO-20251004-3260BDBE / BRG-22228 Non-conforming material	Medium	PO-20251004-3260BDBE · NCC-PN	27/10/2025	Open
NCR-NMND1-2026-00001	Rejected at receiving: PO-20260404-75EEF53E / SC-LUB-GEAR320 Non-conforming material	Medium	PO-20260404-75EEF53E · V-SC01	11/04/2026	Open

- Non-conformance register.

Permits to work and isolation (LOTO)

Safety that is part of the work: the permit, the isolation and the people are checked where the work is planned and started.

- Electronic permits (hot work, heights, confined space, electrical...) with checklists, gas tests, approvals, suspension, handover
- Lockout/tagout with isolation points, zero-energy verification, group lock boxes, personal locks
- Issuer present at the site before authorising high-risk work (QR on the posted permit copy)
- Area authority independent of the job

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Home > Safety > Permits to work

Safety, health & environment

Permits to work 33

Permits to work

Electronic permit to work: request, checklist, approval, gas tests, handover and close-out · Thälvo

Work authorised now 3

Waiting for approval 0

Hot work in progress 1

Permit no.	Permit type	Work and location
PTW-ND1-R10-01	Hot work	Hydraulic oil leak, replace hose and Condensate pump No. 1 — PUMP-COND-01
PTW-ND1-R10-02	Electrical work	Fix loss of output voltage of high-voltage Electrostatic precipitator (ESP) field 1 — ESP-01
PTW-ND1-R10-03	Work at height	Replace non-drive-end ball bearing Condensate pump No. 1 — PUMP-COND-01
PTW-ND1-MB-01	Hot work	Weld repair of pipe support at Steam turbine, unit 1 — TURB-ST-01
PTW-ND1-MB-01-2	Hot work	Weld repair of pipe support at Synchronous generator, unit 1 — GEN-01
PTW-ND1-MB-01-1	Hot work	Weld repair of a pipe support at Steam turbine, unit 1 — TURB-ST-01
CSE-ND1-261007-00060	Confined space entry	Enter furnace of water-tube boiler U Boiler house — BOILER-02
HWP-ND1-261007-00060	Hot work	Install low-NOx burners on boiler 2 Boiler house — BOILER-02
CSE-ND1-261007-00232	Confined space entry	Fix loss of output voltage of high-voltage Electrostatic precipitator (ESP) field 1
EPW-ND1-261007-00232	Electrical work	Fix loss of output voltage of high-voltage Electrostatic precipitator (ESP) field 1
PTW-ND1-261006-E01	Electrical work	Clean, contact resistance measurement 6.6 kV circuit breaker, feeder 1 A — withdra

PTW-ND1-R10-01

Active Hot work · Condensate pump No. 1 — PUMP-COND-01

Request 22/10/2026, 12:12

Review

Approved 22/10/2026, 12:42

Work in progress 10 hours left

Closed

Permit

Gates & controls

Work party 4

Checklist

Signatures

Gas tests

History

Camera

Next step

Request completion

Work-party close-out

Area Authority close-out

Request completion

Shift handover

Request an extension

QR code

QR opened at the site

Trần Văn Hùng · 10/20, 11:29 AM · phone camera

Permit details

Permit type

Hot work

Status

Active

Location

Condensate pump No. 1 — PUMP-COND-01

Raised by

Trần Văn Hùng

Raised

22/10/2026, 12:12

Work authorised by

Trần Văn Hùng · 22/10/2026, 13:12

Valid until

23/10/2026

Responsible supervisor

Trần Văn Hùng

- Hot-work permit in force, with its lifecycle and controls.

Incidents, investigation and corrective action

Learn from every event, and prove the fix worked.

- Incidents and near misses with severity and recordability
- Root cause analysis: 5 whys, fishbone, validated systemic cause
- Corrective actions (CAPA) with source, owner, due date
- Independent verification of effectiveness before closure

Incidents & near misses
Report, classify and investigate incidents and near misses through to corrective action · Thalvora Thermal Power 1 — SAMPLE DATA

Search this register...

Incidents on record: **17** (17 this year)
Open or under investigation: **13** (6 actions still open)
Recordable this year: **1** (164 days since the last one)
Lost-time days this year: **4**
Near misses this year: **13**

Filters: All 17 | Open 7 | Under investigation 4 | Corrective action 2 | Closed 4 | Recordable 1 | Lost time 1 | Near misses 13

Buttons: + Report incident / near miss, + Report incident

Date	Incident	Type	Severity	Recordable	Lost days	Status
06/10/2026	[EXC-NMND1-2026-0003] Repair of safety-critical element Boiler feed water pump No. 1 INC-2026-0011	Near Miss	Medium	—	—	Open
06/10/2026	[EXC-NMND1-2026-0005] Control air receiver safety valve failed the test INC-2026-0003 - Instrument air receiver	Near Miss	High	—	—	Open
06/10/2026	[EXC-NMND1-2026-0006] Repair of safety-critical element Boiler feed water pump No. 1 INC-2026-0012	Near Miss	Medium	—	—	Open
05/10/2026	Steam blow-out at manhole of Water-tube boiler of unit 1 when opened too early INC-ND1-2026-0009 - Boiler house	Near Miss	High	—	—	Under investigation
04/10/2026	Failure of Condensate pump No. 1 detected during operation INC-ND1-2026-0010 - Gian tuabin — level 0	Near Miss	Medium	—	—	Under investigation
19/09/2026	Conveyor CONV-C1 started while the cleaning crew was still near the roller INC-ND1-2026-0008 - Kho than	Near Miss	Medium	—	—	Corrective action
16/09/2026	[EXC-NMND1-2026-0008] Portable earth installed at a location different from the electrical work permit diagram — EPW-ND1-260916-00218	Near Miss	Medium	—	—	Open

- Incidents and near misses.

Management of change

No change to plant, process or procedure without review.

- Change types (emergency, temporary, process / equipment / procedure) with their stages
- Risk review and pre-start-up safety review
- Affected items and approvals recorded

Management of change
Change requests with risk review, approval chain and the pre-start safety review (PSSR) · Thalvora Thermal Power 1 — SAMPLE DATA

No change to plant, process or procedure goes live without a risk assessment, a signed approval chain and — where required — a pre-startup safety review.

Buttons: + Report incident / near miss, + Raise change request

Filters: Open 3 | PSSR pending 1 | Draft 0 | Under review 1 | Approved 1 | Implementing 1 | Completed 2 | Rejected 0 | Cancelled 0 | All 5

Search number, title, requester... All change types

No.	Change	Status	Risk	PSSR	Requested by	Target date
MOC-ND1-2026-003	Revise steam drum entry procedure for major overhaul Procedure	Approved	Medium	—	Hoàng Minh Tuấn	Overdue 12 d
MOC-ND1-2026-002	Adjust imported coal blend ratio Process	Under review	Medium	—	Hoàng Minh Tuấn	Overdue 37 d
MOC-ND1-2026-001	Convert unit 2 boiler burners to low-NOx type Equipment	Implementing	High	Required	Hoàng Minh Tuấn	Overdue 62 d

- Management of change register.

Contractors, training and competence

The right people, qualified and in date, for every job.

- Contractor prequalification, insurance, induction and rating
- Training records and certificates with expiry
- Competency matrix by role and course
- Checks applied when people are assigned or sign on

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Home > People > Training & Certifications > Training & certificates

People & knowledge · Training & Certifications

Training & certificates 33

Report incident / near miss

Training & certificates

Courses, training records and certificates that expire · Thalvora Thermal Power 1 — SAMPLE DATA

Mandatory courses met

24%

87 of 363 person x course pairs

Compliant people

29/33

33 people tracked · 32 active courses

Expiring within 30 days

4

Expired, not renewed

2

Overview

Records

Competency matrix

By person

Renewals 2

Courses & rules

Log training

Search people or departments...

All roles at this plant

All categories

Mandatory courses only

33 people x 11 courses

Current

Expiring

Expired

Missing

Columns follow the 11 mandatory courses of the whole plant; pick a role to check that role's rules. Click a cell to log training for that person and course.

Person	Met / required	ARC-FLASH	RIGGING	CONFINED	FALL-PROT	FIRE-EXT	HOTWORK	LOTO-AUTH	LOTO-GEN	OSHA10	OSHA30	PPE-GEN
Bùi Quang Huy Eligible?	1/11	—	—	—	—	—	—	✓	—	—	—	—
Hoàng Văn Nam Eligible?	1/11	—	—	—	—	—	—	✓	—	—	—	—
Lê Hoàng Phúc												

- Competency matrix.

Worker register and badges

Know who is on site, under which permit, and whether they may work — without typing.

- Register of employees and contractor staff with badges, crafts and fitness conclusion
- Badge scan: sign on/off a permit, apply/remove a personal lock, clock on/off a work order
- Refusals in words, recorded
- Worker card on a phone: may this person work on site?

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Home > Safety > Permits to work

Safety, health & environment

Permits to work 33

Permits to work

Electronic permit to work: request, checklist, approval, gas tests, handover and close-out · Thälvo

Work authorised now 3

Waiting for approval 0

Hot work in progress 1

Permit no.	Permit type	Work and location
PTW-ND1-R10-01	Hot work	Hydraulic oil leak, replace hose and Condensate pump No. 1 — PUMP-COND-01
PTW-ND1-R10-02	Electrical work	Fix loss of output voltage of high-voltage Electrostatic precipitator (ESP) field 1 — ESP-01
PTW-ND1-R10-03	Work at height	Replace non-drive-end ball bearing Condensate pump No. 1 — PUMP-COND-01
PTW-ND1-MB-01	Hot work	Weld repair of pipe support at Steam turbine, unit 1 — TURB-ST-01
PTW-ND1-MB-01-2	Hot work	Weld repair of pipe support at Synchronous generator, unit 1 — GEN-01
PTW-ND1-MB-01-1	Hot work	Weld repair of a pipe support at Steam turbine, unit 1 — TURB-ST-01
CSE-ND1-261007-00060	Confined space entry	Enter furnace of water-tube boiler U Boiler house — BOILER-02
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PTW-ND1-261006-E01	Electrical work	Clean, contact resistance measurement 6.6 kV circuit breaker, feeder 1 A — withdra

PTW-ND1-R10-01

Active Hot work · Condensate pump No. 1 — PUMP-COND-01

Request 22/10/2026, 12:12

Review

Approved 22/10/2026, 12:42

Work in progress 10 hours left

Closed

Permit

Gates & controls

Work party 4

Checklist

Signatures

Gas tests

History

Camera

No toolbox talk recorded yet.

The work party is locked once work is authorised.

Sign on with badge

2 signed on

Scan with camera

Ready — present a badge to the scanner or card reader

Name	State	Since	
Phạm Quốc Bảo	On the crew		
Trần Văn Hùng	Signed on	19/10/2026, 16:49	Sign off (absent)
Lê Minh Tuấn	Signed on	19/10/2026, 16:49	Sign off (absent)
Nguyễn Hữu Tài · Công ty Dịch vụ sửa chữa Thälvo	On the crew		

Person	Role on the permit	Competence	Toolbox acknowledged
Trần Văn Hùng	Permit holder	Eligible	—

- Permit work party: badge sign-on and live competence check.

Statutory equipment, emissions and energy

Registers the authorities ask for, kept as part of daily work.

- Statutory equipment with inspection certificates; an expired certificate blocks work except the inspection itself
- Calibration records
- Emissions and carbon intensity from fuel and purchased power

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Home > Safety > Statutory equipment & calibration

Safety, health & environment

Statutory equipment & calibration 33

Report incident / near miss

Thalvora Thermal Power 1 — SAMPLE DATA

Scan

Shop Floor

HM Hoàng Thị Mai
Safety manager

Statutory equipment & calibration

Equipment with strict safety requirements and its inspections; measuring instruments and calibration · Thalvora Thermal Power 1 — SAMPLE DATA

Inspection and certification register for boilers, pressure systems, lifting and electrical equipment

47 programme records

Print records

Refresh

Load demo data

New record

Inspections due ≤90 days

Registered equipment

Mapped to asset

4

5

5

Statutory equipment register

Register	Asset mapping	Equipment	Requirement / certificate	Next inspection	Owner	Result	Actions
KD-ND1-002	PV-SCR-01	SCR ammonia storage tank Pressure vessel	Circular 36/2019/TT-BLDTBXH GCN-KD/2025/ND1-0002	Overdue 62 d	Operations shift supervisor	Pass	Inspection Suspend
KD-ND1-001	BOILER-01	Boiler of unit 1 Boiler	Circular 36/2019/TT-BLDTBXH GCN-KD/2025/ND1-0001	Overdue 27 d	Operations shift supervisor	Valid	Inspection Suspend
KD-ND1-005	LIFT-BLR-01	Boiler house elevator Lift	Circular 36/2019/TT-BLDTBXH GCN-KD/2025/ND1-0005	25/10/2026	Operations shift supervisor	Valid	Inspection Suspend
KD-ND1-003	CRN-TURB-01	Turbine hall overhead crane Lifting equipment	Circular 36/2019/TT-BLDTBXH GCN-KD/2025/ND1-0003	19/12/2026	Operations shift supervisor	Valid	Inspection Suspend
KD-ND1-004	PV-IA-01	Instrument air receiver Pressure vessel	Circular 36/2019/TT-BLDTBXH GCN-KD/2026/ND1-0004	27/02/2027	Operations shift supervisor	Valid	Inspection Suspend

Instruments

Due within 30 days

Overdue

Out of tolerance

5

0

1

0

Instrument calibration

- Statutory equipment register.

Operations

The shift's picture in one place, and the operating records maintenance depends on — for each industry.

- Shift logbook; entries never edited, a correction is a new version
- Two-signature shift handover
- Operator rounds with warning and alarm limits; an alarm raises a request
- Generating units with states per IEEE 762 and availability factors (energy)

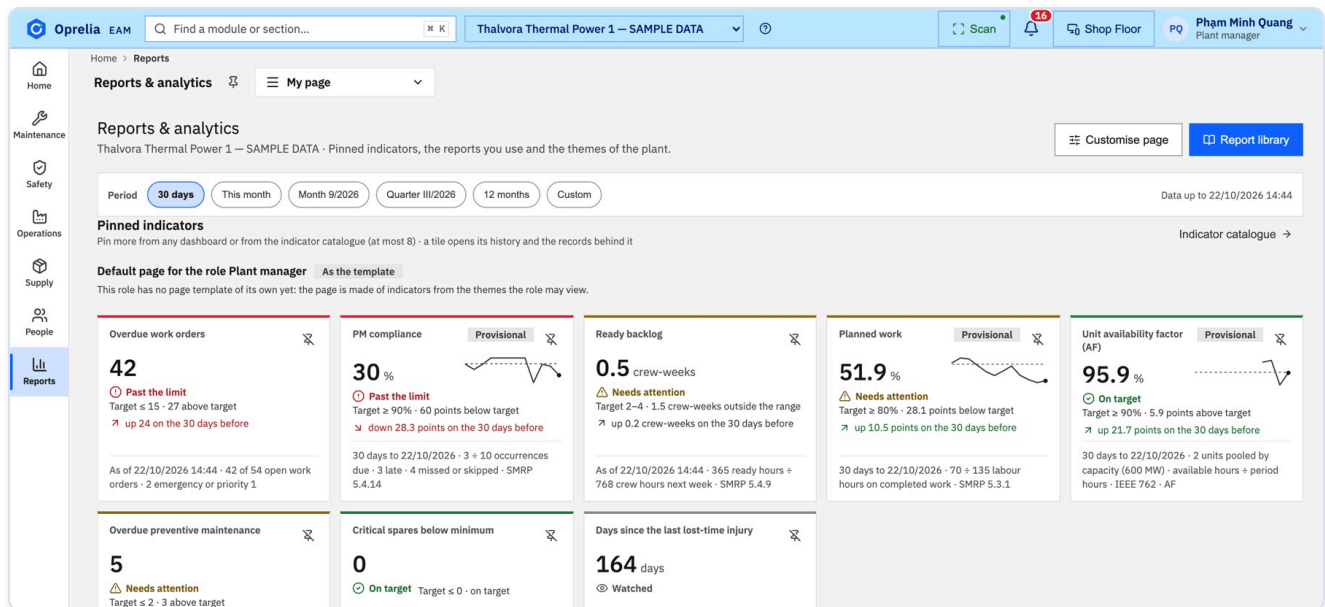
The screenshot displays the Oprelia EAM Shift logbook interface. The top navigation bar includes the Oprelia EAM logo, a search bar, and a dropdown menu for 'Thalvora Thermal Power 1 — SAMPLE DATA'. The sidebar on the left contains icons for Home, Maintenance, Safety, Operations, Supply, People, and Reports. The main content area is titled 'Shift logbook' and includes a search bar, a date/time selector for 'Shift 2' on 22/10/2026, and a 'Write' button. Below the input field, there are filters for 'Station-wide', 'Operation', and 'Equipment'. A message states 'No entries in this shift.' On the right, there are sections for 'Standing instructions' (0) and 'Equipment out of service' (8), with details for specific equipment like LOTO-ND1-261006-L01 and LOTO-ND1-261006-00061.

- Shift logbook.

Reports centre and dashboards

Figures the board can trust: every indicator is computed from the records, carries its definition and opens on the records behind it.

- Dashboards by theme: maintenance, PM, assets, stores, supply chain, operations
- Library of standard reports; Excel, PDF and CSV with every row
- Signature block for the responsible manager
- Closed months never change silently; late data completes a month once, recorded

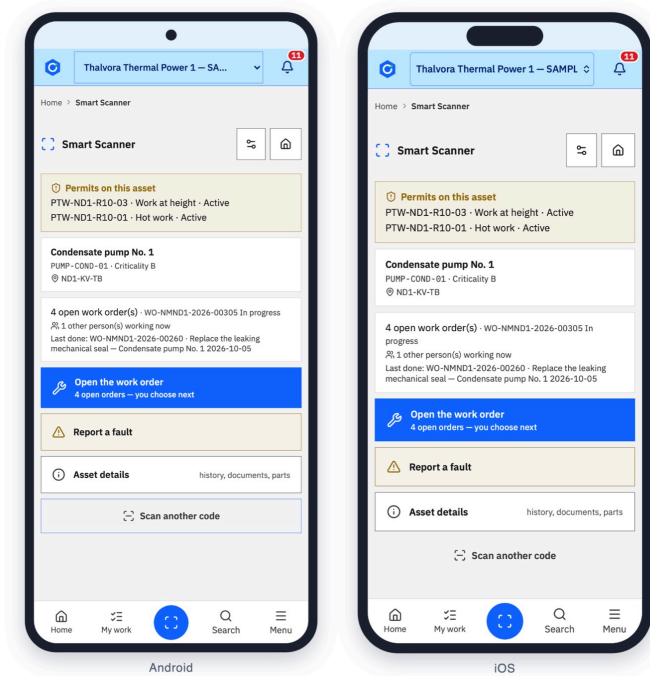


- My reports page.

Mobile, QR codes and offline work

Gloves on, at the top of a structure: the technician should not type.

- Scan an equipment tag: safety first, then one tap to start or continue work
- System QR on permits, isolations, work orders, workers and contractors
- Bin, lot and serial labels
- Same screens on Android and iOS; one-time phone setup



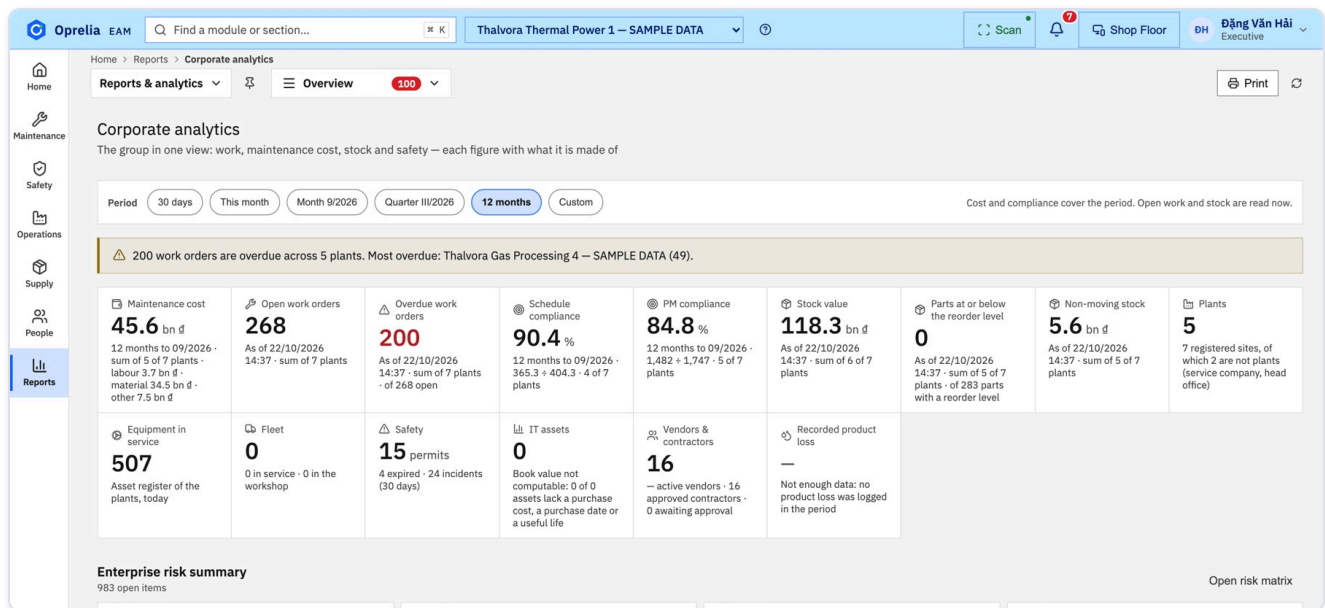
•

Equipment tag scanned: permits first, then open work.

Multi-site and group view

One installation at head office; every site connected; each person sees what their role allows.

- All sites side by side for group management
- Roles per site; approvals by limit; full audit trail
- Home page per role: what waits for me
- Vietnamese and English interface



- Group analytics across all sites.

Equipment dispatch by operations plan

Operations know at any moment which machine can work, which is down and when it is back, and whether it is safe — and maintenance fits into the plan instead of fighting it. For seaports, heavy industry and manufacturing alike.

- An equipment board that follows the operations plan — each vessel call at a terminal, each production run in a plant: ready, working, standby, broken down, under maintenance, restricted or locked
- Breakdown reported by scanning the machine's QR code: one tap raises the emergency work order, tells the shift supervisor and maintenance, and proposes a standby machine
- PM in the gaps of the plan: the system proposes the gap nearest the due date, another person approves, nothing moves by itself
- Control-room TV: a live picture of the site — machines, working areas, exclusion zones, next arrivals — refreshed every 30 seconds through a link that can be withdrawn

Equipment dispatch
Which machine can work, which is broken and when it is back, and whether it is safe — the TOS keeps the vessel and yard planning.

Updated 24/10/2026, 06:20 · refreshes every 30 s [Refresh](#) [Control-room TV](#)

Ready	Working	Standby	Broken down	Under maintenance	Restricted	Locked
29	15	9	2	0	0	7

All machines 62 | STS 8 | RTG 12 | E-RTG 10 | MHC 1 | RS 6 | ECH 5 | TT 20

Ship-to-shore crane 8

STS-01	STS-02	STS-03	STS-04	STS-05	STS-06	STS-07
Locked Isolated (LOTO) · Permit to work in force	Working Vankeline Galvira (fictitious) · berth B1 · departs 24/10/2026, 15:15	Broken down Expected back 23/10/2026, 23:50 · WO-LKCT1-2026-02444	Standby For Lamkia Truc Khe (fictitious) · berths 24/10/2026, 09:15	Standby For Lamkia Truc Khe (fictitious) · berths 24/10/2026, 09:15	Ready Free to assign	Locked Open safety exception

STS-08
Working
 Vankeline Corvara (fictitious) · berth B3 · departs 24/10/2026, 05:45

- Equipment board of the sample seaport: every machine by state, with the vessel call it serves.

Low-code: adapt it without programming

Every company works a little differently. Key users adapt approvals, records, dashboards and alerts themselves — with the same safeguards as the rest of the product: a second person reviews, a test run comes first, safety rules cannot be bent.

- Approval-flow designer: conditions, versions, simulation on real records, four-eyes activation
- Custom fields and forms on assets, work, purchasing and safety records, reviewed before they go live
- “My dashboards” from the product’s own indicators and reports, shared after a manager approves
- “When ... then ...” rules with safe actions only, dry-run first and four-eyes

The screenshot displays the 'Approval configuration' screen in the Oprelia EAM system. The main area is titled 'Purchase requisition' and shows a flow diagram with four steps: 'Requester submits', 'Shift supervisor approves' (24 h), 'Maintenance manager approves' (48 h), and 'Plant manager approves (a...)' (72 h → General manager), leading to a 'Done' state. The right-hand panel is open for the 'Maintenance manager approves' step, showing configuration options for roles and conditions. The roles listed are 'Trưởng phòng bảo' (Maintenance manager) and 'Maintenance mana'. The condition is set to 'Only when the amount is above 200000000'. The interface also includes a sidebar with navigation icons for Home, Maintenance, Safety, Operations, Supply, People, and Reports. The top bar shows the user 'Trần Đức Thịnh' (Maintenance manager) and various system controls.

- Flow designer: the selected step’s roles and amount condition on the right; “No problems” before it can be sent for review.

Notification channels

Notices reach people where they already work — the shift's chat, the team mailbox, the service desk — without anyone watching one more screen. The bell in the product keeps every notice.

- Microsoft Teams, Google Chat, Slack, e-mail and a signed webhook
- Each channel chooses its notices — approvals waiting, reminders and escalations, flow notices, rule notices, equipment breakdowns — and its language
- Delivered in the background with automatic retry; a delivery log with the result of every message; a test message on demand
- Addresses and keys kept secret and shown masked

The screenshot shows the 'Notification channels' settings page in the Oprelia EAM system. A modal window displays the 'Last deliveries' for the 'Teams — Maintenance on call (sample)' channel. The table below summarizes the data shown in the modal.

When	Notice	Result	Attempts	Answer
24/10/2026, 06:20	Automation rule notice Urgent work: tell the shift supervisor — WO-LKCT1-2026-02448	• Sent	1	HTTP 200
24/10/2026, 06:20	Equipment breakdown in operation Machine broken down: ECH-02	• Sent	1	HTTP 200
24/10/2026, 06:19	Test message	• Sent	1	HTTP 200

- Last deliveries of a Teams channel: test message, equipment breakdown, rule notice — each with its result.

Shift roster and on-duty notices

Plants and terminals that run around the clock know who holds each duty on every shift — and a notice that needs someone now reaches the person on duty, not everyone with the role, and never nobody.

- A roster per shift and day with duties: shift leader, supervisor on duty, dispatcher on duty, technician on call, crew
- “Who is on duty now”: the shifts running, the people on them, the duties nobody holds
- Notices of approvals waiting, reminders and escalations, “when ... then ...” rules and equipment breakdowns go to whoever holds the duty now
- If nobody can be reached — nobody rostered, everyone absent, the person on duty cannot receive notices — the notice goes to everyone with the role, and that fallback is recorded and shown

Shift	Mon 19/10	Tue 20/10	Wed 21/10	Thu 22/10	Fri 23/10	Sat 24/10	Sun 25/10
Shift 1 06:00–14:00	Đỗ Hoàng Sơn Shift leader Trần Văn Hùng Technician on call Hoàng Văn Nam Lê Thị Hồng Nhung	Đỗ Hoàng Sơn Shift leader Trần Văn Hùng Technician on call Hoàng Văn Nam Lê Thị Hồng Nhung	Mai Thị Hồng Shift leader Võ Thanh Sơn Technician on call Ngô Thanh Tâm Trương Văn Khoa	Mai Thị Hồng Shift leader Võ Thanh Sơn Technician on call Ngô Thanh Tâm Trương Văn Khoa	Đinh Văn Lực Shift leader Phạm Quốc Bảo Technician on call Bùi Quang Huy Võ Quốc Bảo	Đinh Văn Lực Shift leader Phạm Quốc Bảo Technician on call Bùi Quang Huy Võ Quốc Bảo	Vũ Đình Khôi Shift leader Lê Minh Tuấn Technician on call Phạm Thị Lan Đặng Thị Lan
Shift 2 14:00–22:00	Vũ Đình Khôi Shift leader Lê Minh Tuấn Technician on call Phạm Thị Lan Đặng Thị Lan	Vũ Đình Khôi Shift leader Lê Minh Tuấn Technician on call Phạm Thị Lan Đặng Thị Lan	Đỗ Hoàng Sơn Shift leader Trần Văn Hùng Technician on call Hoàng Văn Nam Lê Thị Hồng Nhung	Đỗ Hoàng Sơn Shift leader Trần Văn Hùng Technician on call Hoàng Văn Nam Lê Thị Hồng Nhung	Mai Thị Hồng Shift leader Võ Thanh Sơn Technician on call Ngô Thanh Tâm Trương Văn Khoa	Mai Thị Hồng Shift leader Võ Thanh Sơn Technician on call Ngô Thanh Tâm Trương Văn Khoa	Đinh Văn Lực Shift leader Phạm Quốc Bảo Technician on call Bùi Quang Huy Võ Quốc Bảo

- Week roster of the sample power plant: three 8-hour shifts, each with its shift leader and technician on call.

Connections to operations systems

The equipment board takes the schedule, the machine assignments and the moves from the site's own operations system — at a terminal, the terminal operating system (TOS) — without programming. Nobody types the plan twice, and the dispatch desk sees at once when the data is late.

- Four ways in, set up on a screen: the operations system sends the data; a file is uploaded; a shared folder is read; the operations system is read on a schedule
- Vessel schedule, machine assignments, and moves with operating hours — the plan the equipment board follows
- Column mapping without programming: source column to field, fixed date formats, letter case, a default, and value lists that turn the system's own codes into the site's berths and states
- The standard berth-schedule message of the port industry is read as it comes

Equipment dispatch
Which machine can work, which is broken and when it is back, and whether it is safe — the TOS keeps the vessel and yard planning.

⚠ TOS feed delayed: nothing received since 24/10/2026, 15:20. Ship assignments and standby on the board may be out of date; breakdowns, locks and the dispatcher's settings are current.

TOS connections

Connection	Way	Content	Status	Last message	Delay	Errors
Crane split folder of the shift	Server folder	CSV with a mapping · Crane assignment	On	24/10/2026, 17:48 · 20 min ago	0 s	2 to look at
Daily vessel schedule file	File upload	CSV with a mapping · Vessel schedule	On	24/10/2026, 17:48 · 20 min ago	0 s	2 to look at
Terminal operations system (sample)	Push (API)	Contract JSON (no mapping)	On Delayed	24/10/2026, 15:20 · 3 h ago	1 s	0
Example: industry-standard berth schedule file (off) example	File upload	EDIFACT (BERMAN) · Vessel schedule	Off	—	—	0
Example: moves read on a schedule (off) example	Pull (REST)	JSON with a mapping · Moves and hours	Off	—	—	0
Example: the operations system sends (off) example	Push (API)	Contract JSON (no mapping)	Off	—	—	0

Refused — to look at
What a connection could not deliver, with the reason. Fix the cause (register the machine, correct the mapping ...), then send it again.

[To look at](#) [Sent again](#) [Dismissed](#) [All](#)

Seen	Connection	What	Reason	Status
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- Connections of the sample seaport — way in, content, state, last message — and what was refused, each with the reason in words and “Send again”.

Third-party licences

Legal and purchasing teams see every component the product uses and its licence.

- Searchable list of libraries, fonts, models and datasets with their licence
- Filter by licence class; open a row to read the licence text

Home > About

About Oprelia
User manual and build information

Product **Third-party licences**

Third-party licences
Oprelia uses the components below. Open a row to read its licence and notices.

Q Search by name, licence or holder

All licence classes All kinds Product and development

Component	Version	Licence	Kind	Source
SH17 safety and human dataset (8,099 images, 17 classes)	v1 (Roboflow export, Hugging Face fathansanum/SH-17-Dataset, read 19/10/2026)	CC-BY-NC-SA-4.0 • Strong copyleft	Dataset · Development only	github.com/ahmadmughees/SH17dataset
@fontsource/ibm-plex-mono	5.3.0	OFL-1.1 • Weak copyleft	Font	github.com/fontsource/font-files
@fontsource/ibm-plex-sans	5.3.0	OFL-1.1 • Weak copyleft	Font	github.com/fontsource/font-files
@fontsource/inter	5.3.0	OFL-1.1 • Weak copyleft	Font	github.com/fontsource/font-files
lucide-react	0.577.0	ISC • Permissive	Icon set	github.com/lucide-icons/lucide
@azure-rest/core-client	2.9.0	MIT • Permissive	Library	github.com/Azure/azure-sdk-for-js
@azure/abort-controller	2.2.0	MIT • Permissive	Library	github.com/Azure/azure-sdk-for-js

- About > Third-party licences.

Camera AI for protective equipment In development

A camera can watch a permit area for missing protective equipment; a person always decides.

- Watch started from a permit, isolation or work order; ends with it
- No face recognition; alerts reviewed and confirmed by an authorised person
- In development: detection models are not yet offered for production use

Home > Safety > AI camera PPE

Safety, health & environment

AI camera PPE 33

Report incident / near miss

AI camera PPE
On-site camera model flags missing hard hats and vests; every observation is reviewed by a person · Thalvora Thermal Power 1 — SAMPLE DATA

AI Camera — PPE Monitoring
Local inference · no face recognition · human review required

AI Ready PPE hard hat and vest (YOLO11s) PPE extended: hard hat, vest, gloves / bare hands, eye protection, mask (YOLO26s, SH17)

Full PPE evaluation · 6 classes

Configured camera: This device, PPE only

Contractor: No contractor (plant employees)

Optional: the plant's own employees are watched without a contractor.

A configured camera watches its zones with their detectors.

Linked PTW ID: No permit

Optional: Search by name or badge, or scan the badge.

Camera label: Laptop Camera

Retain one alert snapshot as review evidence

Required PPE for this monitoring session

PPE Safety Observations
10 recorded

AI alerts are not findings until reviewed by an authorized manager.

Detector: All detectors

yolo11-ppe
9 alerts · 100% confirmed · 0% false positive

nduka1999/nd_ppe_yolo11s
1 alerts · — confirmed · — false positive

SOB-AI-NMND1-MS0FA07F
OPRELIA
Missing hard hat
11/08/2026, 08:53 · Confidence 81% · Laptop Camera
Review evidence Confirm False positive

SOB-ND1-2026-0001
Pending review PPE

- Camera AI page (in development).

5

Built for several industries

Each site chooses an industry profile: asset classes, failure codes, permits, indicators and checklists.

Manufacturing and process industry

Production lines and process units, rotating equipment, utilities; permits for hot work and confined space with gas tests; management of change with pre-start-up review; quality and non-conformance; an equipment board that follows the production runs.

Energy

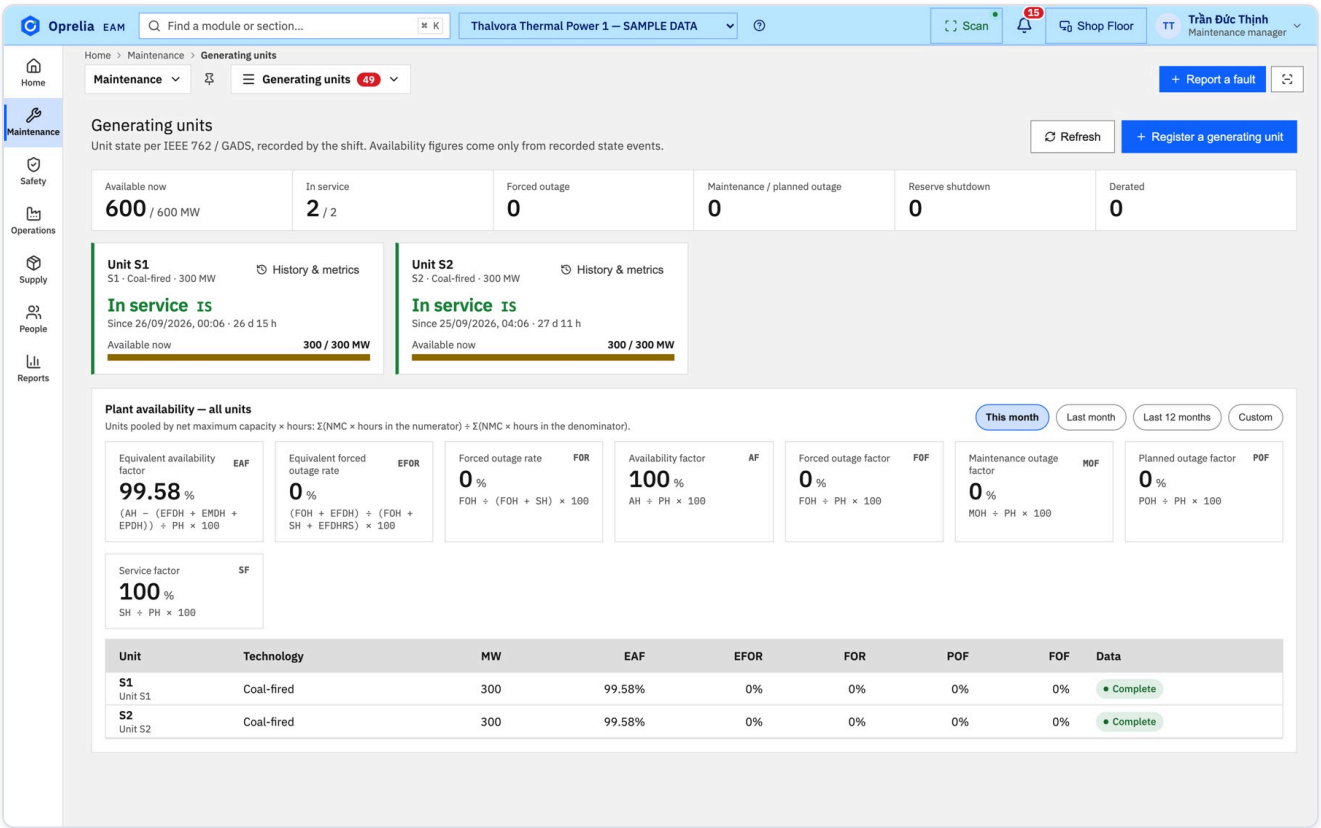
Generating units with states per IEEE 762 and availability factors; outages and overhauls; shift logbook and rounds; emissions from fuel and electricity.

Ports and terminals

Cranes and yard equipment with meters in hours and moves; an equipment board that follows the vessel calls, breakdowns reported from the cab, PM in the gaps between calls; lifting gear examined before issue; structural inspections.

Vietnamese and English

Every screen is available in Vietnamese and English; plants in Vietnam find the registers they are asked for.



- Generating units of a power plant: availability from recorded unit states.

6

Deployment and trust

One installation, every site

Installed once at head office; plants connect over the company network. A standby copy can take over.

Works on the plant floor

Phones, tablets and handheld scanners; a plant-floor station keeps scanning going when the link to head office is lost.

Roles and audit trail

A role per person per site; approvals by limit; every create, change, approval and close-out recorded.

Licensed by module

Buy the areas you need and add others later; data is never lost when a module is switched off.

Oprelia EAM Find a module or section... **Thalvora Thermal Power 1 — SAMPLE DATA** **Scan** **16** **Shop Floor** **PQ** **Phạm Minh Quang** Plant manager

Mission Control
Good afternoon, Phạm Minh Quang · Thursday, 22/10/2026 · Plant manager · Thalvora Thermal Power 1 — SAMPLE DATA

Plant Network Central Server ● Online LAN Hub ● Not running checked 14:37

Waiting for me 27	Overdue work orders 42	PM compliance (30 days) 30% 3 + 10	Open incidents 13	Training compliance 98% 2 certificate(s) expired
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Not shown: OEE today, Quality loss (30 days) — not used in this plant's industry.

Waiting for me
Soonest due first · 3 item(s)

Code	What	To do	Due
PTW-ND1-MB-01	Weld repair of pipe support at Steam turbine of u...	Authorise work	23/10/2026
Safety exception	4 safety exception(s) wait for your approval or ve...	Approve or verify	—
Request	15 new maintenance request(s)	Triage	—

Scan review queue 7 item(s)

- WO-NMND1-2026-00305 Hydraulic oil leak, replace hose and realign coupling
Condensate pump No. 1 · PUMP-COND-01
The scan session was closed automatically — confirm the outcome
- WO-NMND1-2026-00061 Replace the safety valve of control air receiver PV-1A-01 (lifts at 9.6 bar instead of 8.5 bar)
Instrument air receiver · PV-1A-01
Started with a safety-gate warning — check the permit and isolation
- WO-NMND1-2026-00055 Clean, contact resistance measurement of 6.6 kV circuit breaker, auxiliary feeder bay 1A
6.6 kV medium-voltage switchgear — main board · SWGR-MV-01
Work stopped: the permit to work was suspended
- WO-NMND1-2026-00049 Clear coal blockage in the mill feed pipe — Coal mill No. 1
Coal mill No. 1 · MILL-01
Started with a safety-gate warning — check the permit and isolation
- WO-NMND1-2026-00252 Replace the hoist limit switch that acted incorrectly — Turbine hall overhead crane
Turbine hall overhead crane · CRN-TURB-01
Started with a safety-gate warning — check the permit and isolation

Needs attention now
Abnormal and still open · 14

- CSE-ND1-261007-00060
Enter furnace of water-tube boiler Unit 2 for inspection, measure steam generating tube thickness
Approval lapsed 15 day(s) ago and work was never authorised — void it
- HWP-ND1-261007-00060
Install low-NOx burners on boiler 2 under MOC (replace 8 burners, tune secondary air 2) — MOC-ND1-2026-001
Approval lapsed 15 day(s) ago and work was never authorised — void it
- CSE-ND1-261007-00232
Fix loss of output voltage of high-voltage rectifier, field 3 — Electrostatic precipitator (ESP) field 1
Approval lapsed 15 day(s) ago and work was never authorised — void it
- EPW-ND1-261007-00232
Fix loss of output voltage of high-voltage rectifier, field 3 — Electrostatic precipitator (ESP) field 1
Approval lapsed 15 day(s) ago and work was never authorised — void it
- CWP-ND1-261006-00061
Internal inspection, hydrostatic test of Control air receiver
Permit validity ran out
- HWP-ND1-261006-H01
Patch welding of steam generating tube on left wall of boiler 1 (leak found during patrol)
lel gas test 12 % at the work point (limit 10 %) — stop work,

- A plant manager's home page: what waits for them.

7

Next step: a pilot at one site

The best way to judge Oprelia is to run it on your own equipment, with your own people, at one site.

1 · Prepare

Agree scope and success measures; load assets, parts, crews and existing PM plans; set roles and limits.

2 · Run

Run requests, work, permits, isolation, stores and purchasing for the pilot area; tag the equipment.

3 · Review

Review the figures with your managers and decide how to extend to the other sites.

Let us talk

Tell us which site, which area and which problem you want to solve first, and we will prepare a pilot plan.