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algorismic

Innovation in Subfab Sustainability



Subfab360 ATC

Subfab360: Enabler for Net Zero and AI

Optimizing Energy Efficiency and CO₂
Footprint for Sustainable Fab Operations

algorismic.com

SOLUTION

About Subfab360

Subfab360 is algorismic's **software solution** for running the subfab as efficiently and transparently as the cleanroom. It **connects pumps, abatements, gas cabinets and process tools**, turns their raw signals into a **clear live picture** and helps fabs **cut energy, media use and emissions** without changing existing equipment.

Subfab360 continuously collects and organizes **machine data** and shows the **status of all connected devices** in one place. Engineers see where consumption rises, where alarms cluster and where standby times are possible – and can **act before issues impact yield or uptime**.

Visualization and reporting modules then turn numbers into stories. Fleet dashboards show the **health of the subfab**, dashboard views reveal **trends** and reports translate **savings** into cost of ownership, payback times and **ESG metrics**.



Subfab360
ATC

Subfab360 ATC (Active Tool Coupling) leverages the data foundation to enable subfab equipment control in real time. This delivers significant **energy savings** and **reductions in CO₂ emissions**.



Subfab360
MONITORING

Subfab360 Monitoring and **data transfer modules** open the subfab to **MES, FDC and reporting tools**, making equipment behaviour **traceable and audit-ready**.



Subfab360
AI

Subfab360 AI takes optimization further by enabling AI to learn operational patterns and **dynamically adapt parameters** within defined safety limits.



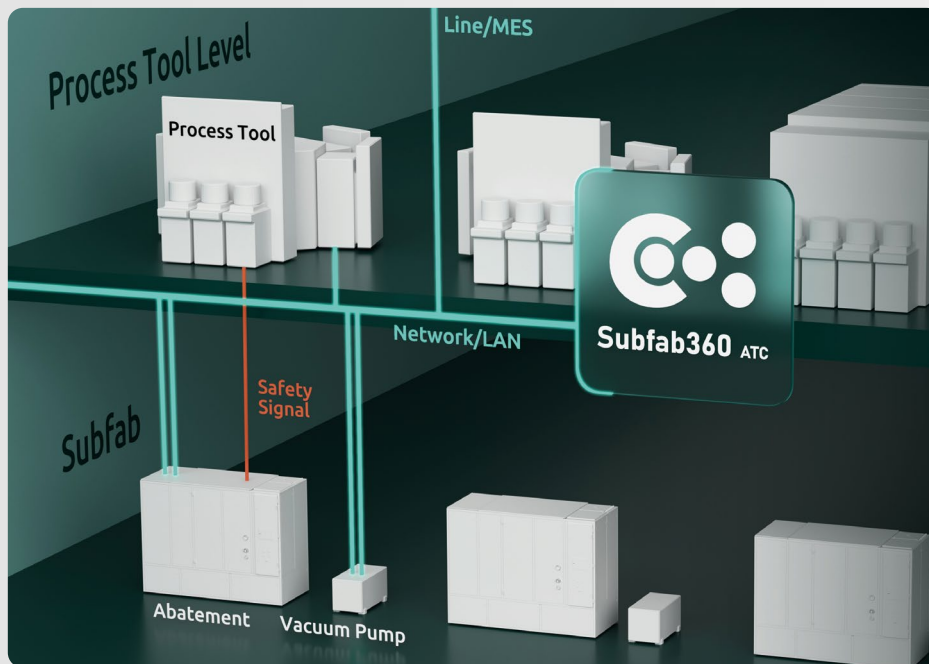
IMPACT

**Net Zero
roadmap
enabler**



BENEFIT

**Cutting
costs &
media**



SOLUTION

Summary

- ✓ Smart coupling of fab and subfab
- ✓ Active Tool Coupling
- ✓ Based on realtime-data
- ✓ Vendor-agnostic integration
- ✓ Ready for industrial data spaces
- ✓ Existing and new fabs
- ✓ Scales from pilot to fab rollout

Subfab360 turns the subfab into an integrated **sustainability operations layer**, making it a true **Net Zero and AI Enabler**.

SUBFAB360

Field-proven long-term Savings

SAVINGS

60%



CDA

SAVINGS

50%



Lye

SAVINGS

45%



Fuel Gas

SAVINGS

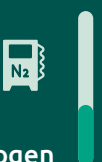
40%



Oxygen

SAVINGS

40%



Nitrogen

SAVINGS

25%



Water

≥10 tons

**CO₂ Savings
per Abatement/
Year**



COMPANY

Track Record



Regions

Europe

Taiwan

Customers

Foundry

Memory

Process Technology

ETCH

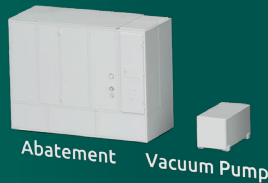
PVD

FUR

ASH

Subfab Equipment

Abatement and Vacuum Pumps



SUCCESS
AFTER FAB ROLLOUT

**>5 %
CO₂ Reduction
in 2025**

European IDM fab
Scope 1 & 2 emissions

TRACK RECORD

Subfab360 Installed Base

2026

70

2027 FCST

250

Innovation in Subfab Sustainability

C-LEVEL

Execution Overview

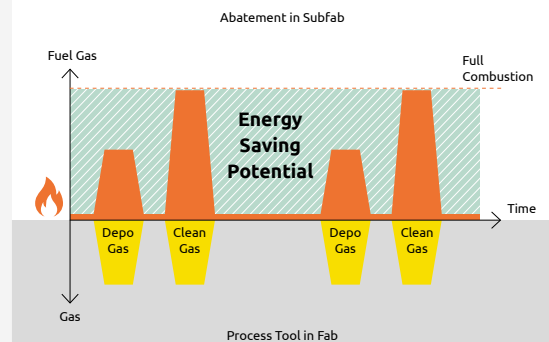
Integration

- ✓ Software-first integration, hardware on demand
- ✓ Minimal CAPEX, optional hardware extensions
- ✓ Seamless integration into established fab systems and networks

Quick wins

- ✓ Pilot in 4 weeks
- ✓ Fab rollout in 6 Months
- ✓ ROI potential of 14 months

Working Principle



**Local Presence,
Global Impact**

Support
Team in
Taiwan

HQ
Germany,
EU

CONTACT

scan to visit
our website



Stefanie Hammer
General Manager



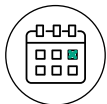
Innovation in Subfab Sustainability

Demand-Optimized Operations and Data Analytics for Significant CO₂ Reduction in Semiconductor Manufacturing

algorismic is a German industrial IoT software company specializing in subfab automation and emission reduction for the semiconductor industry. Powered by real-time equipment data, its software solutions enable semiconductor fabs to monitor and control facility equipment such as abatement systems and vacuum pumps. As a result, fabs can positively influence media consumption and reduce the environmental footprint of semiconductor manufacturing, cutting utility costs and CO₂ emissions.

With a strong track record of successful deployments since 2023, the modular software delivers measurable efficiency gains alongside actionable visualizations. Engineered for comprehensive interoperability, the solution integrates seamlessly into existing fab IT infrastructures as well as greenfield facilities. Whether driving substantial energy savings or optimizing resource consumption, algorismic empowers its partners to turn real-world sustainability challenges into significant OPEX savings and meet Scope 1 & 2 emission targets.

Interested in our Product? **Contact us:**



Make an Appointment

Please contact us to schedule an appointment with our sales and development team.



Get Savings Calculation

Based on our experience, we can calculate real savings potential for your individual requirements.



Get more Information

Our services are offered globally, including support in various semiconductor manufacturing locations.

For more Information visit **www.algorismic.com**

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