

Run Smarter, Go Greener: *Smart Energy Saving* In Nexis GC-2060



The New Industry Standard For Sustainable Laboratories

Rising power demand and higher electricity prices highlight the need for smart energy management in modern laboratories. The Nexis GC-2060 delivers the ideal solution, combining energy savings, rapid readiness, and operator convenience. This allows laboratories to reduce running costs, limit heat output, and keep productivity high.



Annual Electricity Costs
Save cost by | **~70%**



Instrument Start-Up Time
Save time & be ready in | **30 min**

**Nexis GC-2060 with SPL/FID*

ECO Idling: Smart Standby Without The Wait

ECO Idling is Shimadzu's smart standby feature that balances productivity with energy and gas savings. The system tracks usage patterns and visualizes workloads to recommend an optimized eco-schedule, automatically switching the GC between active and low-consumption states.

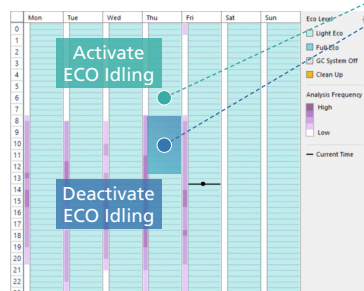
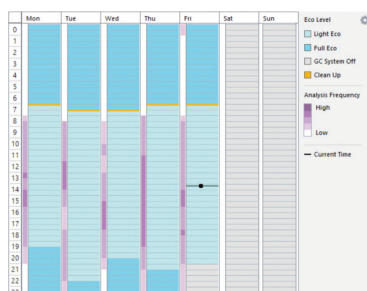
The system adapts to your workflow instantly: Start a run, and it automatically resumes analysis-ready performance. When work stops, it slips into the ECO state to lower power and gas use.

For Nexis GC-2060 systems with a built-in ECO button, operators can turn ECO Idling on or off with a single touch—making it incredibly simple to lower laboratory running costs.



Use Mode A

Enable ECO Idling **once** and the system adapts to your usage pattern automatically



Use Mode B

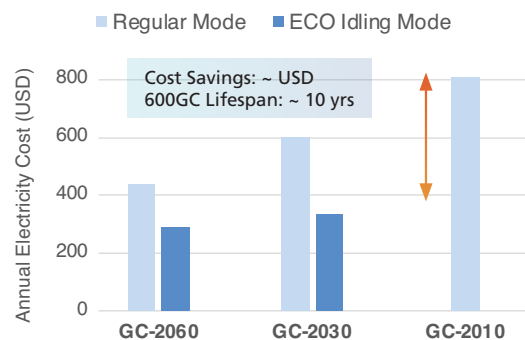
Enable ECO Idling **as required** with a press of the ECO button

Running Cost Estimation

Calculated under standard conditions, these estimations highlight the impact of the system's advanced design. Improved thermal engineering in the Nexis GC-2060 significantly lowers baseline power consumption, while ECO Idling multiplies those savings during downtime. This unique combination of hardware efficiency and intelligent standby software delivers the ultimate reduction in annual electricity expenses.

Nexis GC-2060 SPL/FID model

Oven Initial Temp: 70°C, SPL Temp: 250°C, FID Temp: 280°C, Analysis Time: 8 hr/day, Standby Time: 16 hr/day, Operation: 365 day/year, Electricity Cost: USD 0.17 /kWh



Maximize Savings With FID H2/Air Mode



ECO Idling reduces gas use with a single touch and remains effective even during analysis. Combined with the new FID-U (2.0) on the Nexis GC-2060, the innovative Hy/Air mode utilizes Air as the makeup gas, successfully reducing a typical three-gas setup to just two (H2 + Air).

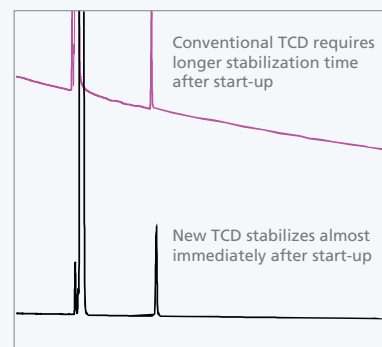
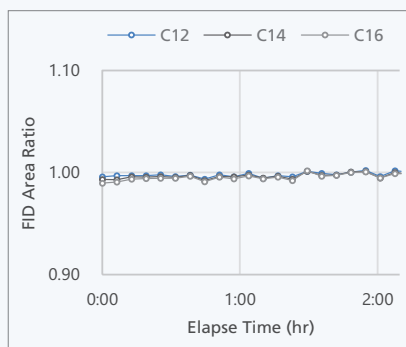
Standard Gas Flow Rate for FID

Gas Type	GC-2010	GC-2060	GC-2060*
H2	40 mL/min	40 mL/min	40 mL/min
Air	400 mL/min	170 mL/min	110 mL/min
Makeup	30 mL/min	30 mL/min	20 mL/min

*Hy/Air mode

Instrument Start-Up Time

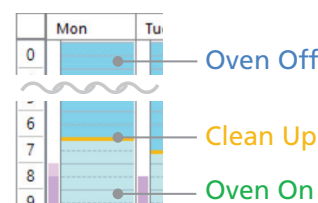
The redesigned FID and TCD stabilize rapidly, even from a full shutdown. ECO Idling keeps the system in an optimized standby, ensuring immediate readiness after column conditioning — Shortening downtime and accelerating time-to-result.



Tech Tip: Why Does GC Require A Stabilization Period Before Analysis?

Moisture adsorbed on columns and detectors is a common cause of prolonged start-up and stabilization times. Maintaining the column at 50°C reduces the relative humidity to approximately 13% (assuming 23°C room temperature).

Use ECO Idling to schedule automated column cleaning followed by an oven warm-up before you start your day. This guarantees the system is fully stabilized and ready when you walk in, eliminating daily start-up delays and maximizing throughput.



Shimadzu (Asia Pacific) Pte Ltd.
www.shimadzu.com.sg

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