



ARLANXEO GLOBAL NEWS

Turning Waste Heat into Value: A Sustainability Milestone for ARLANXEO Singapore



ARLANXEO Singapore has achieved a significant sustainability milestone with the successful completion of its Thermal Oxidizer Waste Heat Recovery Boiler (TOWHB) project, which has received support under the Singapore Economic Development Board's (EDB) Resource Efficiency Grant for Emissions (REG(E)) programme.

Installed and commissioned during the site turnaround in 2024, the new Thermal Oxidizer Waste Heat Recovery Boiler captures waste heat generated during the Singapore site's off-gas treatment process and converts it into low-pressure steam for plant operations. By recovering energy that would otherwise be lost, the project reduces reliance on imported steam while lowering the site's environmental footprint.

Key Sustainability Benefits

The project delivers tangible environmental and operational value by:

- Improving resource and energy efficiency through waste heat recovery
- Reducing imported steam consumption by more than **5 tonnes per hour**
- Achieving a verified annual reduction of **11,741 tCO₂e**
- Delivering emissions reductions equivalent to taking approximately **2,550 passenger vehicles** off the road annually
- Strengthening long-term operational resilience and sustainability performance

The successful completion of the post-project Measurement and Verification (M&V) process in Q2 2026 conducted as a final milestone under the REG(E) program serves as a validation of the project's positive environmental impact and achievement of its intended carbon reduction objectives.

The amount of carbon reduction was also factored into the computation of the total REG(E) grant awarded to ARLANXEO Singapore.

A Cross-Functional Team Achievement

The success of the TOWHB project was made possible through the dedication and collaboration of colleagues across multiple functions, supported by external technical specialists and government partners.



Special recognition goes to the project team members who led the proof of concept, engineering implementation and overall project execution leading to a successful outcome. Key contributors included Palani, Nigel and Chin Huat from ARLANXEO Singapore, together with cooperation with the independent verification team from Actsys and representatives from the Economic Development Board.

Looking Ahead

The TOWHB project is another key step in ARLANXEO Singapore's sustainability journey and a strong example of how ARLANXEO's Sustainability Roadmap is being brought to life, supporting our ambition to achieve the 2030 CO₂ reduction targets. Building on this achievement, we will continue to pursue opportunities that strengthen our competitiveness while contributing to a lower-carbon and more sustainable future.

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