



# ANNUAL **20** REPORT **24**



New Products



Events



Sustainability



Projects



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# Introduction

Molecor South East Asia presents the annual review of our activity during 2024.

This year has been full of news and events that we want to share with you in a single document that summarizes and provides an overview of the performance and development carried out by Molecor South East Asia during 2024.

We are very proud of what we have achieved and we have many plans to continue moving forward and offering the best products and services during the next year.



## ***Oriented Innovation for Smart Water Networks***

The most advanced pipes and fittings for the conveyance of water at medium and high pressure produced with Molecor's air-based technology to achieve the highest quality.

### **TOM**

#### **The first PVC-O pipe to reach DN1200 (mm)**

High hydrostatic and impact resistance, corrosion immunity, complete watertightness and maximum ductility for the widest range of PVC-O pipes.

### **ECO FITTOM**

#### **The exclusive oriented PVC fittings**

Guarantees the same hydraulic and mechanical properties in the different elements of the network. Includes couplers, sliding couplers, reducers and bends.



# NEW PRODUCTS

Molecor is dedicated to driving innovation in water conveyance by developing advanced and sustainable solutions tailored to meet the evolving needs of the industry.

## TR6

### The new PVC-O pipe designed for low pressure irrigation

**Molecor SEA** increases its range of products with the **TR6®** brand, the new irrigation pipes with a **nominal pressure of 6 bar**. This product manufactured in **PVC-O**, with **Molecor's** exclusive technology, is a new solution more adapted to the needs of the agricultural industry.

The development of this new pipe responds to the needs of water supply networks that are more resistant both mechanically and chemically. **TR6®** is ductile, immune to corrosion and highly resistant to impacts and water hammer, making it a very reliable product for projects of all types and aggressive terrains where phytosanitary products are used for plant care and protection against pests.

**TR6®** is an Oriented PVC pipe with a working pressure of 6 bar. With the improvements provided by the molecular orientation, we obtain hydrostatic properties superior to those of PVC-UPN6. Moreover, on analysing equivalent thicknesses of **TR6®** PN6 and PVC-U PN6 bar pipes, the former have a **modulus of elasticity higher than 15%** compared to the latter, which means that the **TR6®** pipe has these higher levels of rigidity.

For its launch, the range includes nominal diameters **from 90 mm to 400 mm** and is compatible with **ecoFITOM® PVC-O fittings** and a large number of fittings and pipes made of other materials.



## ASIA WATER

Kuala Lumpur, Malaysia

ASIAWATER 2024, one of the most important events for the water & wastewater industry in South East Asia, provided a networking opportunity and platform for technology sharing through conferences and technical seminars hosted by local experts and well-known companies. This year the event counted with more than 17.000 visitors from over 68 countries around the world and over 50 conferences and technical seminars.



**Molecor SEA's** goals aligned with this year's ASIAWATER theme, "Water Transformation for Smart Water Governance" by combining smart technology with sustainable infrastructure aimed to better manage water resources, adapt to changes, and ensure everyone had access to clean water both in the present and the future.

During the event **Molecor SEA** was awarded with the 'Best Booth Design' award thanks to the creation of a space perfect to showcase our **PVC-O solutions** that include:

## EVENTS

At Molecor SEA we have not stopped moving this year and we have attended multiple events throughout the various countries that make up Southeast Asia. From all of them we would like to highlight a selection.



**TOM® PVC-O pipes**, from nominal diameters between 90 and 1200 mm, the first fittings manufactured entirely in **PVC-O**, **ecoFIT TOM®**, and **TR6®**, the new range of **PVC-O pipes** designed specifically for irrigation at low nominal pressures.

During the show, **Walter Philip Pattynama**, CEO of Molecor SEA, presented "The Usage of PVC-O Pipes: Cost Saving and Efficient Water Management in Water Distribution Network".

## Vietnam Water Week

Hanoi, Vietnam

**Molecor SEA** had an outstanding participation in Vietnam Water Week 2024. During the event, the company presented its innovative piping solutions in **PVC-O**, a material recognized for its durability, hydraulic efficiency and sustainability, including **TOM® pipes** up to DN1200mm, **ecoFITOM® fittings** and **TR6® irrigation PVC-O pipes** with a nominal pressure of 6 bar.

In addition, at a key moment for the expansion of its presence in the region, **Molecor SEA signed an important collaboration agreement with BINH MINH VIET GROUP**, consolidating a strategic alliance that will boost the development of water infrastructure in Vietnam. This agreement reinforces its mission to offer advanced and sustainable solutions that contribute to universal access to water.

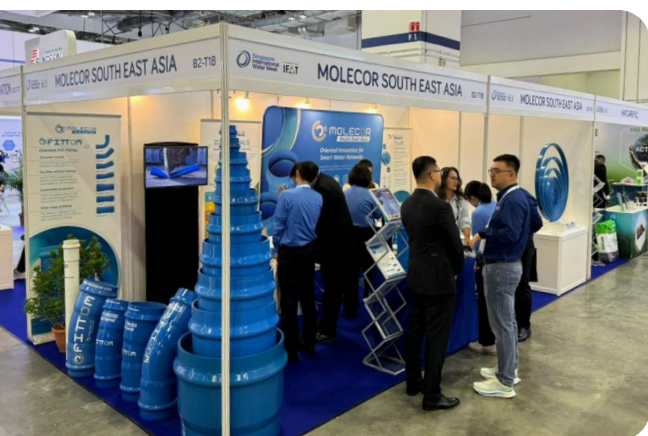


## Singapore International Water Week

Marina Bay Sands, Singapore

**Molecor SEA** participated actively in the Singapore International Water Week (SIWW) 2024, a global platform for sharing and co-creating innovative water solutions. Held in Singapore, the event attracted over 22.000 visitors from 64 countries that included industry leaders, policymakers, and experts on sustainable water management.

**Molecor SEA** showcased its advanced **PVC-O solutions**. Visitors also experienced the advantages of **geoTOM®**, an app for the creation of digital layouts for the geolocation of a pipelines.



## And many more events we attended...

In Malaysia, Vietnam, Philippines, Cambodia, Indonesia, Thailand and more...



# ECO FITTOM

*The widest range of PVC-O fittings*



**Unbeatable impact resistance**



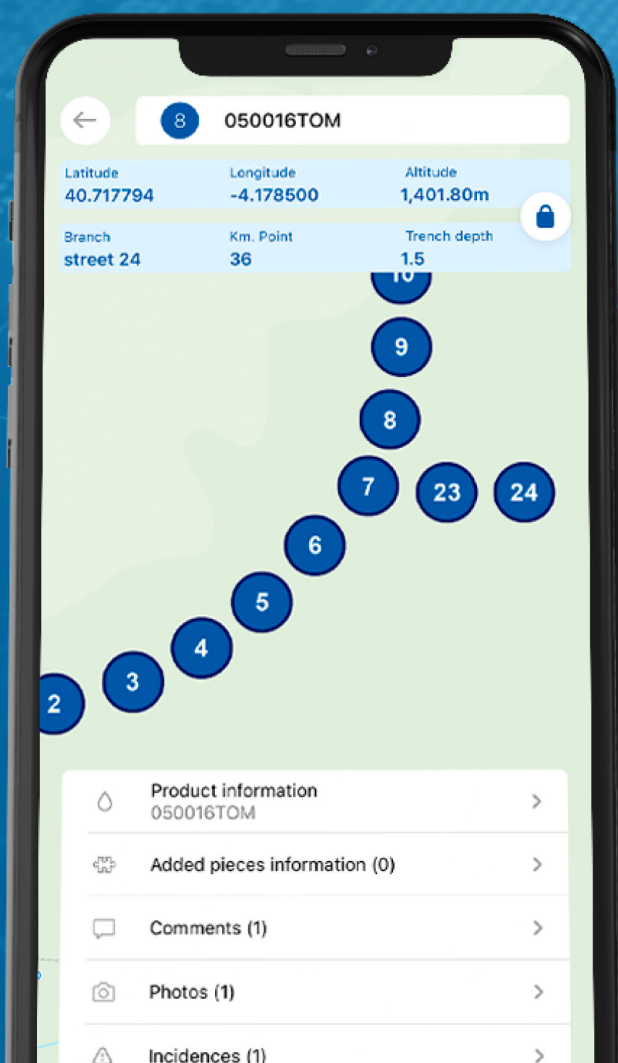
**Corrosion immunity**



**Complete watertightness**



**Recyclable and sustainable**



# GEO TOM

**Create virtual layouts  
and digitalise your  
water piping networks**

Available on



# SUSTAINABILITY

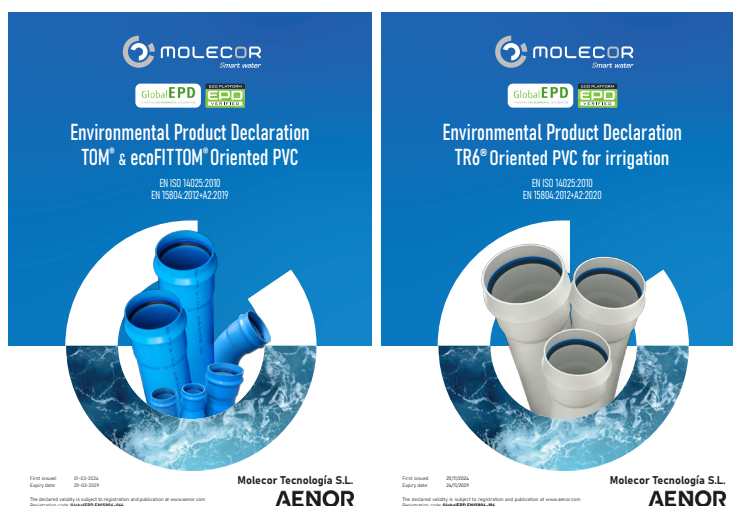
Molecor SEA highlights in its values the firm commitment to the protection of the environment through an effective management that promotes the prevention of environmental pollution, and work for an increasingly sustainable development. These are some of the milestones we have achieved this year:

## Environmental Product Declaration

Verification carried by the independent entity AENOR

As part of **Molecor's** commitment to sustainability and transparency in the manufacture of its products, the **Environmental Product Declaration (EPD)** has been published for several of its products, including **TOM®**, **TR6®** and **ecoFITTOM®** ranges in **PVC-O**.

These declarations, prepared in accordance with the international standard EN ISO 14025, provide detailed and verifiable information on the environmental performance of products throughout their life cycle based on the Product Life Cycle Assessment (LCA).



## Molecor Forest

Biodiversity conservation as a cornerstone of Molecor's sustainable future

**Molecor** teamed up with Treedom to combat the deforestation of the planet creating the **Molecor Forest** project, a real forest in which 600 trees distributed between Madagascar, Tanzania and Thailand **will absorb 227 tonnes of CO<sub>2</sub>**.

As part of the integration of the corporate social responsibility culture, each of the company's employees have received one of these trees to show that each and every member of **Molecor** participates in this action.



# Molecor presents its Sustainability Report 2023 reaffirming its commitment to a sustainable future

In its commitment to sustainable development **Molecor** has published its **Sustainability Report 2023**. This report provides with a transparent and detailed view of the company's social, environmental and governance impacts over the past year. Verified by an independent audit team, in accordance with the requirements established in Law 11/2018 on Non-Financial Information based on the **GRI (Global Reporting Initiative)** standards.

About the organisation's governance, the most significant advance has been the preparation of the **Strategic Sustainability Plan 2023-2025**. This Plan has defined 9 ambitions spread across the three pillars of sustainability, including, for example, alignment with the environmental and social taxonomies, promoting circularity in the sector, and being **Net Zero by 2040**.

A key aspect at **Molecor** is innovation, making a very significant investment that translates into the development of products with a lower environmental impact. The new **TR6® pipe for irrigation**, launched on the market in 2023 after an eco-design process, represents a significant advance in the search for more sustainable and circular solutions in the sector.

In the environmental dimension, one of the milestones achieved is the voluntary **Operation Clean Sweep (OCS)** certification of all manufacturing plants in Spain in accordance with the requirements of the new OCS Europe certification scheme, which shows the organisation's commitment to avoiding the loss of pellets to the environment.

The company continues to be very involved in contributing to the fight against climate change, and therefore, in order to continue making progress in decarbonisation, the organisation's carbon footprint has been calculated for scopes 1 and 2, and the calculation of scope 3 has begun. Knowledge of this carbon footprint will enable the detailed development of the roadmap of the **Decarbonisation Plan** with the aim of achieving zero net emissions in 2040, an ambition included in the **ESG Strategic Plan**.

*'The year 2023 has been full of challenges due to high global instability, but thanks to our value proposition based on the pillars of innovation, internationalisation and agility in decision-making, we have achieved growth rates above the sector'* says Ignacio Muñoz, CEO of Molecor.



## MyHijau Green Label

For TOM® and ecoFITTOM® ranges

**Molecor SEA** has renewed two MyHIJAU certifications, Malaysia's mark of green excellence for **TOM®** and **ecoFITTOM®** ranges. This significant milestone not only highlights the dedication to sustainable development but also eco-friendly business operations.

**MyHIJAU is Malaysia's official green labelling scheme** endorsed by the government of Malaysia, bringing together certified green products and services that meet local and international environmental standards under one single mark. Denoting compliance with global environmental standards, the MyHIJAU Mark is a consolidation of regional and international green certifications. This is a simple and clear way for consumers to distinguish genuine green products and services through the usage of a single, trusted logo, called the MyHIJAU Mark reference.

**TOM®** and **ecoFITTOM®** PVC-O products have been recognized with the MyHIJAU label due to the different characteristics that make them more sustainable than other alternatives. They are less dependent on petroleum than other polymers (only 43% of their composition, the rest comes from common salt), they have a very long useful life, they are 100% recyclable and depending on their function it is not necessary to use heavy metals as stabilizers.

## SIRIM EcoLabel 054

For ecoFITTOM® PVC-O fittings

This certification recognizes the continuous effort to reduce the ecological footprint, conserve resources and defend environmentally friendly practices in the company's daily operations, promoting the circular economy.

**ecoFITTOM®** fittings have obtained this recognition for their improved characteristics thanks to being composed entirely of oriented PVC, which makes the fitting more resilient, considerably increases its useful life to more than 50 years and optimizes the material and energy resource requirements for its production.





Celebrating key sustainability dates to raise awareness, inspire meaningful action, and strengthen our commitment to building a greener, more sustainable future.



# PROJECTS

The diverse range of installations powered by Molecor, highlighting their application across various industries and their impact on improving water distribution and resource management systems. Our expertise ensures optimal performance and long-term value in every undertaking.

## DN1000 mm Groundbreaking

HS Jaro (P-1, P-2) Total Pipe Replacement Project in Iloilo City



Project with Metro Pacific Iloilo Water that will set to enhance the water distribution network across the metropolis, addressing long-standing challenges and ensuring a more reliable and efficient water supply for the residents thanks to the use of **TOM® PVC-O pipes**.

As a leader in the industry, **Molecor SEA** achieved a groundbreaking feat: the installation of **the first DN1000 mm PVC-O pipe ever in the Philippines**. This remarkable achievement contributes to the advancement of the Philippines water infrastructure.

The project will upgrade the aged water infrastructure of Iloilo City, spanning a length of 14.97 kilometers of DN1000-110 mm PVC-O pipes. Additionally, will also benefit the Mandurriao and City Proper areas, it will eliminate the need for crossing service lines across roads, decommission the old and dilapidated pipeline, and support the city's growing population and development needs.



# Pipe Rehabilitation Works Project

For Pontian & Kulai District, Johor

In collaboration with the constructor Kimlun Sdn Bhd and the promoter Ranhill SAJ Sdn Bhd the Pipe Rehabilitation Works Project for Package 1 for Pontian & Kulai District, Johor under fourth operational period: OP4-21 was carried out this year. **TOM® Oriented PVC (PVC-O) pipes** were used for the rehabilitation project and 5,484 m of DN110 to DN315 mm PN16 bar pipes were installed under Package 1.

The ease and efficiency of installation and the performance achieved thanks to the light weight and joining system of **TOM® pipes** were decisive factors. The installation is simple; clean the joints, apply lubricant in a 1:1 ratio with water and push to the end mark (no heavy machinery is required in small diameters).



# Transmission Lines Replacement

In Puerto Princesa

**PVC-O pipes** has been chosen as the preferred material to be used for transmission lines in Puerto Princesa as to replace the traditional pipe material of steel pipes. This is due to **PVC-O** capabilities such as easy & efficient installations, effective cost and immunity to corrosion.

The PPCWD Technical Personnel embarked on an insightful visit to two distinguished Water Districts which San Jose Del Monte Water District and Santa Maria Water District in Bulacan, Philippines, unveiling a paradigm shift towards utilizing **PVC-O pipes**.

The objective of this project is to address the growing water demand by proposing new, extensive, and quality transmission line from Bgy Irawan via Bgy Sta. Lourdes to Bgy San Pedro. The project consists of a 20 km pipeline of DN400 PN16 **TOM pipes**.



# Technical trainings

Molecor SEA organized technical training sessions with various stakeholders and organizations related to the company. This sessions aimed to enhance the knowledge of Molecor ranges, compatible products and site installation subjects.



*Ranhill SAI Sdn Bhd training session*



*Air Kelantan (AKSB) training session*

As part of Molecor's commitment to continuous improvement, this training marks the beginning of ongoing capacity-building initiatives and ensure that all team members stay current with evolving industry trends and operational methodologies.

## Atlanta Industries Inc

A brief overview of the **PVC-O pipes** being manufactured and tested was given, including the key specifications and functionalities that make them successful in the conveyance of water.

Another key point of the visit was to show the Atlanta Industries team how **Molecor SEA** packages and delivers its products so that they reach their destination quickly and in the best conditions. At the end of the visit, both **Molecor SEA** and Atlanta discussed possible future collaborations in the Philippines. Overall, the visit was a success!



## LAKU Management Sdn. Bhd.

**Molecor SEA** organized a comprehensive technical training session with LAKU Management Sdn. Bhd. at the Lambir Water Treatment Plant. This session aimed to enhance the knowledge of **TOM® PVC-O pipes**, compatible fittings and site installation subjects in the area. As part of **Molecor's** commitment to continuous improvement, this training marks the beginning of ongoing capacity-building initiatives. Regular training programs will be conducted to ensure that all team members stay current with evolving industry trends and operational methodologies.





MOLECOR (SEA) Head Office  
Unit 2-05, Level 2, Menara UAC, No 12, Jalan PJU 7/5, Mutiara Damansara,  
47800 Petaling Jaya, Selangor Darul Ehsan, Malaysia  
T +603.6420.6291 | F +603.6420.6291

MOLECOR (SEA) Plant  
No 10, Jalan Gebeng 2/13, Kawasan Perindustrian Gebeng,  
26080 Kuantan, Pahang Darul Makmur, Malaysia  
T + 609.583.4920 | F + 609.583.4926

[www.molecorsea.com](http://www.molecorsea.com)

[inquiry.malaysia@molecor.com](mailto:inquiry.malaysia@molecor.com)

