

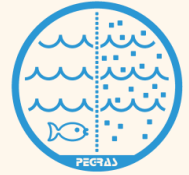
PEGRAS

TECHNOLOGY CONSULTANTS



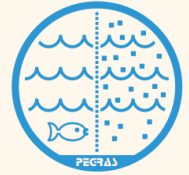
"Success isn't determined by the quantity of resources you dedicate to a project, it's your grasp and knowledge of the local culture and context that truly pave the way to achieving your goals."

PEGRAS



- Our beginnings are in Europe
- Our history is in the south-east Asian region
- Offices in Australia, Germany, Hong Kong and Thailand
- Understanding business cultures is in our DNA
- We are a network of 28 technology professionals
- We span logically associated fields;
 - Chemistry
 - Print media
 - Manufacturing
 - Industrial equipment
 - Environmental systems
- We are independent of the global players
 - We develop
 - We optimise
 - We restructure
 - We joint venture
- We are a resource to improve your profitability

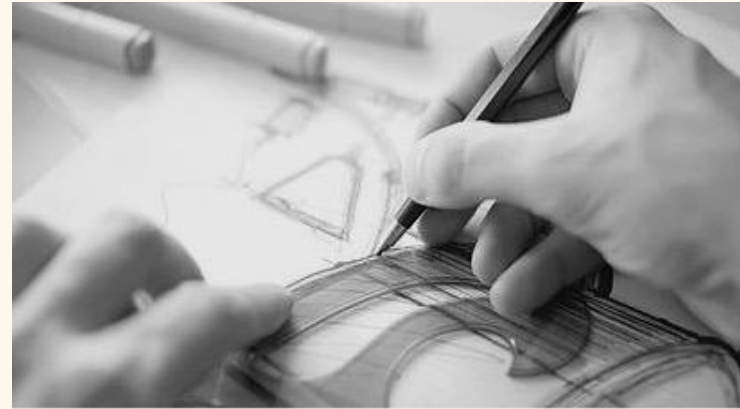
PEGRAS



Services in 4 market sectors



PEGRAS Environmental systems



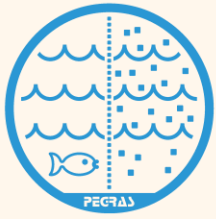
PEGRAS Industrial Services



PEGRAS Print Media



PEGRAS International Relations



The oceans are contaminated by an estimate of 8.3 million pieces of so-called mini or microplastics per cubic meter of water.

Source: Biological oceanographer Jennifer Brandon



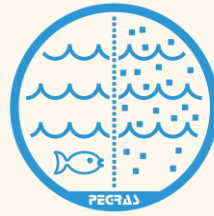
Clean water

Access to clean water is fundamental for human survival.

- Water covers about 71% of the Earth's surface.
- The human body is composed of about 60% water.
- Only 1% of the world's water is safe for us to consume.



Microfibers

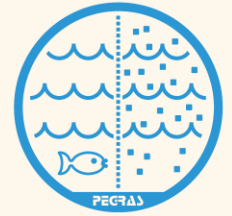


"Microfibers, which are minuscule synthetic fibres shed from various sources such as tires, roads, textiles, plastic products, and cosmetics, have become a significant environmental threat.

These tiny pollutants, often less than 5 mm in size and usually invisible to the naked eye, have permeated oceans, rivers, and even sources of drinking water, thereby posing risks to both marine life and human health.



Source of Microplastics in the water streams



Where Do the Oceans' Microplastics Come From?

Distribution of sources of microplastics in the world's oceans



Synthetic textiles
35.0%



Car tires
28.0%



City dust
24.0%



Road markings
7.0%



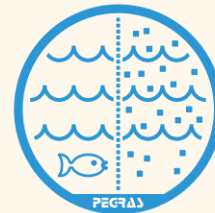
Marine coatings
3.7%



Personal care products
2.0%



Plastic pellets
0.3%



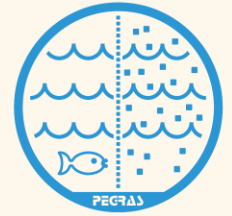
The Microfibre Challenge

Microfibres, minuscule synthetic fibres shed from textiles, have emerged as a formidable environmental hazard.

These tiny pollutants, often undetectable to the naked eye, have infiltrated oceans, rivers, and even drinking water sources, posing risks to marine life and human health.

Traditional water treatment methods have fallen short in capturing these particles, underscoring the need for more efficient technologies.





Cleaning wastewater

In a landmark development for environmental technology, PEGRAS, a pioneering company in ecological solutions, has introduced the world's first scalable Microfibre removal system.

This cutting-edge system, engineered to efficiently remove harmful plastic microfibres from water flows, utilises an evolutionary binding agent and a distinctive in- line and continuous extraction process.

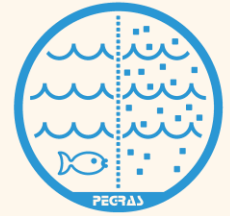
This breakthrough represents a significant advancement in combating water pollution and preserving aquatic ecosystems.

The PEGRAS-MPR technology represents a significant advancement in addressing this issue.

Capable of capturing microfibers as small as 1 micron, it significantly outperforms traditional water treatment methods, which typically fail to trap such small particles.

This underscores the efficiency and effectiveness of the MPR technology in mitigating the environmental impact of microfiber pollution."

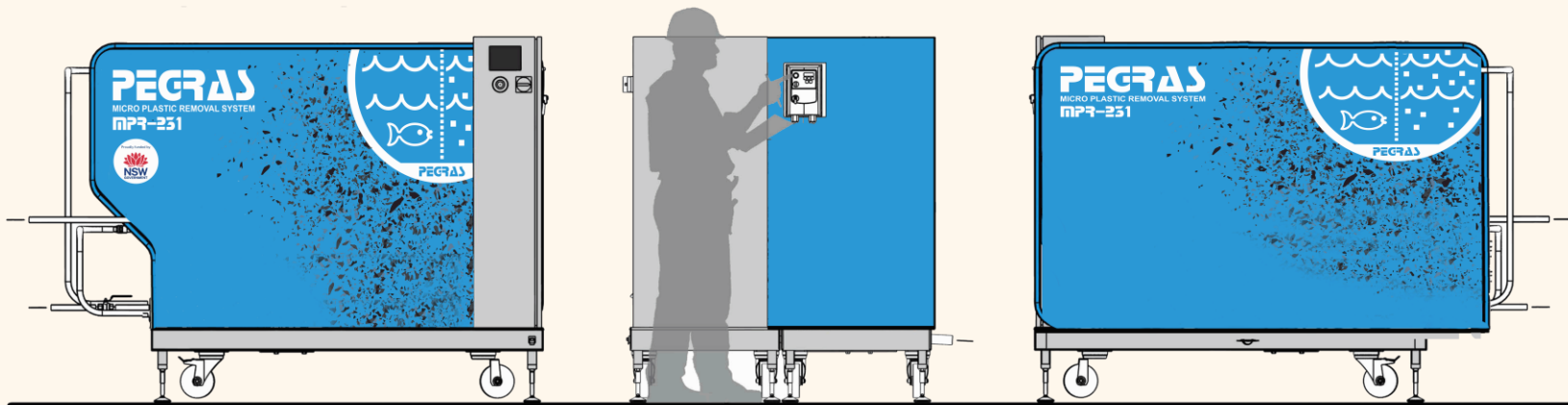
PEGRAS's Revolutionary Approach

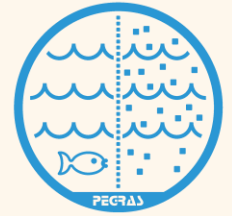


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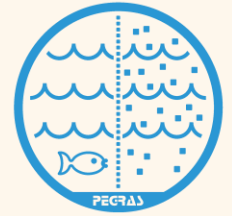


Scalability: A Key Feature

A standout feature of PEGRAS's system is its scalability.

Engineered for easy integration into current water treatment infrastructures, it can be tailored to various scales, from small community facilities to large metropolitan treatment plants. This versatility ensures that the system can be deployed worldwide, addressing diverse environmental conditions and needs.





Environmental and Health Impacts

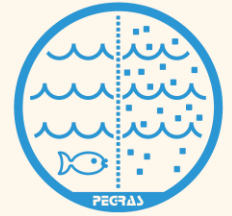
The introduction of this industrial system marks a major stride in environmental protection.

By efficiently removing Microfibres from water bodies, it safeguards aquatic ecosystems and species that are often harmed by ingesting these pollutants.

It contributes to public health by enhancing the purity of drinking water, mitigating the risks associated with Microfibre contamination.

PEGRAS's Microfibre removal system is more than a technological achievement; it symbolizes a commitment to a cleaner, safer environment. In an era where ecological challenges are ever-present, this innovation offers a practical and hopeful path forward, merging scientific excellence with real-world application.

Paving the Way for a Cleaner Future



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Future Prospects

Looking to the future, PEGRAS is exploring ways to not only remove but also recycle the extracted Microfibres, reinforcing its dedication to sustainable practices.

As global awareness of environmental stewardship grows, PEGRAS's system stands as a testament to the power of human innovation in safeguarding our planet's most vital resource.



Ready to make a difference in
your industrial wastewater management

Introducing our advanced MPR systems

Clean your discharge water, removing microplastics

enable recycling back into your process