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EcoPHA & Terra Sol: Award-Winning Innovators Shaping the Future of Sustainable Packaging

Internationally Patented PHA Bioplastics Meet World-Class Sustainable Packaging Design

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A powerful partnership between two award-winning industry leaders - EcoPHA, a biotechnology pioneer in PHA bioplastics, and Terra Sol, a design-driven leader in compostable packaging - is setting a new global standard for sustainable materials.

By merging scientific breakthroughs with cutting-edge product design, EcoPHA and Terra Sol are delivering truly home-compostable, commercially viable alternatives to fossil-fuel plastics, helping businesses future-proof against environmental regulations and consumer demand for plastic-free solutions.

A Scientific & Design Breakthrough: The First PHA from Pongamia Oil

Through its globally patented process, EcoPHA has developed the ability to convert non-edible Pongamia oil, derived from the resilient Pongamia tree, into PHA bioplastics, a fully home-compostable, non-toxic alternative to traditional plastics.

This game-changing innovation aligns with global sustainability targets, offering industries such as packaging, food service, mining and manufacturing a cost-effective, circular solution for reducing plastic waste.

Meanwhile, Terra Sol's expertise in designing and commercialising sustainable packaging ensures that PHA moves beyond the lab and into practical, scalable applications for businesses worldwide.

"EcoPHA's technology is world-first, but technology alone doesn't drive change - people do. That's why our partnership with them is so powerful," said Louise Sykes, CEO of Terra Sol. *"Together, we're making it easier for businesses to adopt truly sustainable solutions without compromising performance or affordability."*

A Game-Changer in Bioplastics & Sustainable Packaging

By combining award-winning biotechnology and world-class product design, EcoPHA and Terra Sol deliver the first truly scalable compostable packaging solution that balances sustainability, cost-effectiveness, and real-world usability:

-100% Home Compostable (AS 5810 Certified) – Unlike PLA and other industrial bioplastics, PHA breaks down naturally in compost, soil, and marine environments, leaving zero microplastics.
-Cost-Effective & Scalable – Terra Sol has designed PHA-based cups, lids, straws, and cutlery for mass adoption, proving that businesses don't have to choose between affordability and sustainability.
-Carbon Credit Potential – EcoPHA's patented Pongamia oil-based PHA process contributes to carbon sequestration, allowing businesses to offset production costs with carbon credits.
-Designed for Real-World Use – Terra Sol ensures that PHA-based products are not only sustainable but functional, offering businesses superior alternatives to fossil-fuel plastics, PLA, and even paper and wooden products.

Expanding Commercial Adoption in Australia & Worldwide

With Terra Sol's award-winning product development expertise and EcoPHA's scientific innovation, the companies have already secured their first commercial sales and are actively expanding production to meet demand both in Australia and globally.

By focusing on locally produced, high-quality PHA products, the partnership is addressing logistical and cost barriers that have previously slowed the adoption of compostable materials. Manufacturing in Australia also reduces transportation emissions and ensures reliable, scalable supply chains for businesses making the switch to sustainable alternatives.

Together, EcoPHA and Terra Sol are working alongside key stakeholders in waste management, sustainability, and government policy to ensure that PHA-based packaging is fully integrated into composting infrastructure - helping businesses transition seamlessly toward a waste-free future**.**

The Urgent Need for Sustainable Alternatives

As discussions emerge in the United States about rolling back plastic bans, the need for viable replacements has never been more pressing. If plastic use continues to rise, PHA bioplastics must be the alternative, ensuring industries can transition to materials that do not contribute to long-term pollution or microplastic accumulation.

By replacing fossil-fuel-based plastics with PHA bioplastics derived from Pongamia oil, EcoPHA and Terra Sol are creating a circular production model that minimises waste and reduces carbon footprints.

"Innovation is at the heart of EcoPHA's mission to develop cutting-edge PHA bioplastics technology" said Dr. Wilson Ling, CEO of EcoPHA. "With this breakthrough, EcoPHA is strengthening Australia's position as a global leader in PHA bioplastics. Our innovation using Pongamia oil opens up new possibilities for sustainable packaging and industrial applications, driving both economic and environmental benefits."

✔ Designed for Industry & Consumers – Durable, food-safe, and completely biodegradable.
✔ Does Not Compete with Food Crops – Unlike corn and soy-based bioplastics, PHA from Pongamia oil does not take away from food supply chains.
✔ A Long-Term Solution to Plastic Pollution – Aligns with plastic bans and evolving regulations worldwide, ensuring businesses are ahead of compliance requirements.

"This is just the beginning. We are proving that sustainability and innovation go hand in hand, and we're excited to help businesses transition to solutions that are better for the planet and their bottom line," added Louise Sykes, CEO of Terra Sol.

With global distribution capabilities, EcoPHA and Terra Sol are actively working with partners across industries, from food packaging and retail to industrial applications, to make truly compostable solutions the new standard.

For more information on how EcoPHA & Terra Sol are shaping the future of sustainable packaging, visit www.terrasolstudio.com

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Media Contacts:

Louise Sykes – CEO, Terra Sol

louise@terrasolstudio.com
louise@ecopha.com

Josh Dean - CMO, Terra Sol

joshdean@terrasolstudio.com