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Riversimple's hydrogen electric car and Engas Global demonstrate convenient, affordable hydrogen refuelling

Engas Global's plug-and-play green hydrogen system could herald a new era of 'grassroots' refuellers

Horsham-based Engas Global provides complete hydrogen systems, with one currently deployed on a farm in Steyning, West Sussex – where Engas Global CEO Amitava Roy is refueling a Riversimple hydrogen electric vehicle, the Rasa. This will provide important data and help refine the easy-to-replicate, full service hydrogen system.

The containerised electrolyser produces green hydrogen using surplus electricity from the farm's biogas-CHP plant – and is an independent system of hydrogen production, compression, storage and refuelling, which is unlocking energy independence, diversified income and community connections for the landowners.

Amitava is utilising the Riversimple Rasa as an everyday vehicle all around Sussex, and refueling at Steyning Farm around once a week.

Amitava explains: "The Riversimple Rasa is helping to show just how simple and achievable hydrogen refuelling can be. Arthur Ashe said: 'Start where you are. Use what you have. Do what you can.' This is what we're doing; Engas Global Steyning is demonstrating that with our complete system you can have a safe, green hydrogen refueller up and running quite quickly – with potential extra income and clean fuel on site for the farmer.

"I think the idea that our hydrogen needs *only* to come from enormous refueling stations in order to reach the necessary provision, is wrong. Let's approach hydrogen like solar PVs: small arrays are great, and have been rolled out successfully in homes and businesses to meet varying

demands – and this fits in very well with large solar generation sites too, as hydrogen can. It's all about getting the demand/supply provision spot on, and moving with agility to respond to demands, which is something large corporations sometimes struggle with. The Engas system is ready and able to replicate, and can work in tandem with other, larger suppliers.

“The Rasa is really turning heads, and I've had several farmers ask if they can have one as an off-farm vehicle!”

The Steyning Engas Global site produces 20kg of hydrogen a day, sufficient for serving around 60 to 70 Rasas. Refuelling takes just a few minutes. The cost of the green hydrogen is currently equivalent to diesel and petrol, but this is expected to drop.

The Engas Global system has significant potential for implementation not just across the UK's farms, but also for council projects, ports, public and private schools, large institutions – and ultimately, drivers who want alternatives to battery electric and ICE vehicles.

Hugo Spowers, Riversimple founder and Director, visited the Steyning Engas Global site recently: “The Engas Global system and the farmer are proving that green hydrogen fuel and hydrogen electric mobility is not a distant goal, but a viable, practical solution today. It's incredibly straightforward; driving off in the Rasa, knowing that the hydrogen was created locally using 100% renewable energy, is immensely satisfying.

“Battery electric vehicles are great for some, but not for all – and a proper hydrogen refuelling network is what our automotive industry needs for a compelling alternative to ICE and battery vehicles. These smaller, ‘plug and play’ hydrogen systems are helping build that network.

“The dots are being joined; Engas Global is one of a number of innovative new entrants developing profitable business models to capitalise on the enormous potential of hydrogen, in contrast with larger companies who only see difficulties in incorporating hydrogen in legacy operations.”

This is one of Engas Global's smaller projects; they've also worked to provide [hydrogen storage and refuelling for a crew transfer vessel at Port of Blyth near Newcastle](#). Amitava brings significant expertise to the project from a career at the forefront of fuel cell, hydrogen and biogas – biomethane (bio-CNG).

The Steyning Engas Global site will also host hands-on training opportunities for professionals and students from leading Universities.

Amitava will use Riversimple Rasa until early July, after which time both Riversimple and Engas Global will have valuable data on the project.

For media enquiries, please contact Fiona Spowers fiona@riversimple.com or Lyndall King lyndall@kingrobertson.com. Follow and like us at [LinkedIn](#), [Bluesky](#) and [Instagram](#)

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Notes to editors:

Riversimple is pioneering the next generation of zero emission vehicles with a circular business model. Their vehicles use hydrogen, not batteries and emit nothing but water, with a refuel time of under five minutes. Beta testers have been driving the Rasas in real world conditions in Wales for the last two years.

Production plans do not require large-scale ‘gigafactories’ – Riversimple aims to build a distributed network of compact and efficient manufacturing plants that will regenerate communities and create high quality, resilient manufacturing jobs.

Riversimple customers will be able to access refuelling hubs that serve their areas, and will join wider nationwide strategies to grow infrastructure – alongside the potential of green hydrogen (hydrogen produced with renewables such as biogas or via electrolysis from solar and wind power).

Riversimple [recently unveiled a new hydrogen electric supercar](#), which is being designed in part through a successful collaboration with the renowned Coventry University Automotive and Transport Design School.

Riversimple was founded by former motorsport engineer Hugo Spowers MBE. Hugo set up OSCar Automotive in 2001, which became Riversimple in 2007 and led the Morgan LIFECar project, shown at Geneva in 2008. Riversimple was awarded the SIMMS Medal by the RAC Club in 2016 for “outstanding contribution to motoring innovation” and elected as an Emerging Innovator member of the Circular Economy network CE100 by Ellen MacArthur Foundation in 2017. In 2022 Hugo was awarded an MBE for Services to Technology.





Captions from top:

1. Amitava Roy, CEO Engas Global, with the Riversimple Rasa
2. *Hugo Spowers (right) visiting the refueller in another Rasa, welcomed by Amitava (left)*
3. *The Rasa alongside the Engas Global hydrogen refueller*