

env

FACTS



The ENV is the world's first purpose designed fuel cell-powered motorbike. Powered by a 1kW Intelligent Energy fuel cell, the bike has a top speed of 50mph and range of 100 miles on a tank of compressed hydrogen.

Since the concept was first presented in Spring 2005 the ENV has captured the imagination of a global audience of close to 300 million (growing by the day). And this is all before the official commercial launch.

There are currently two prototype ENVs – one black, one white – and they've been shown in London, Monaco, Los Angeles, San Francisco and New York, attracting as diverse an audience as you could imagine: from the British Chancellor of the Exchequer to design aficionados, science bods to hardened bike journos, Hawaiian nature freaks and Brazilian urban bikers...

The reaction has been as overwhelmingly positive as it has been unprecedented. Along the way there have been many questions about the ENV and its fuel cell CORE.

Here we cover the main FAQs, but for more background information log onto www.envbike.com and for up to date news see www.intelligent-energy.com and join the silent revolution! Science fact: not science fiction...

- The ENV is a prototype
- There are two bikes; one black, one white
- The ENV has a top speed of 50mph
- The ENV is powered by a 1kW fuel cell called the CORE, which in turn powers a near-silent 6kW, VDC Brush motor
- The range is 100 miles on the CORE's tank of compressed hydrogen
- We're developing mini-fuel reformers to create hydrogen and working on establishing fuel supply infrastructures
- The CORE is removable and can power other things around the home
- We've also developed fuel cell systems up to 75kW (100hp) for the automotive market
- Following a thorough evaluation and development process the ENV will be launched during the second half of 2007.

.../more overleaf





Where will the ENV bikes be launched first?

The original plan was to conduct a staggered launch taking in parts of North America and Europe, as well as Japan. However, we are receiving enquiries from other markets and so we'll continue to plan according to market demands and commercial practicalities.

How much will the ENV bike cost?

The projected price is going to be below \$10,000.

How can I participate?

We are looking at customer evaluation as part of our process, so those who register an interest with us via our website www.envbike.com may even get a chance to become an ENV tester!

Can I book a test ride?

Of course! As the ENV nears its commercial launch we'll tell you how.

How environmentally friendly is the ENV?

The only by-product is water vapour, the engine is virtually silent and most parts are recyclable.

What's it like to ride?

It's a totally different sensation to a conventional bike – more like skiing, sailing or windsurfing.

Are you going to add noise to the ENV?

No, that's an urban myth! One of the ENV's unique characteristics is its near silence and we believe that's very appealing. Just imagine how pleasant the streets would be with silent, non-polluting vehicles.

What will you be doing to make ENV road-legal?

Legislation differs from country to country – and even from state-to-state – but we will ensure that ENV fulfills all the requisite safety and roadgoing criteria.

Is hydrogen safe?

Yes - just like other fuels - when handled with respect. We also have built-in safety mechanisms and cut-outs.

What about repair and maintenance?

With significantly fewer moving parts to wear out, the costs should be minimal.

Who designed the ENV?

The industrial design was carried out by world-leading designers Seymourpowell.

Can I invest in the ENV?

All current investment enquiries are being handled via the ENV microsite.

How can I find out more?

www.envbike.com

www.intelligent-energy.com

Key components of the bike power system	
Motor	6kW, 48 VDC Brushed motor (model LEM-170, supplied by LMC Ltd)
Motor controller	Brusa Direct Current (model MD 206)
Fuel cell	1kW Intelligent Energy air-cooled (2 x AC32-48)
Hydrogen storage	High pressure composite cylinder (Luxfer L65)
Hydrogen energy	2.4kWh
Storage battery	4 x 12V Lead Acid (15Ahr) connected in series
Performance data	
Acceleration	0 - 20 mph in 4.3s (32kph) 0 - 30 mph in 7.3s (48 kph) 0 - 50 mph in 12.1s (80kph)
Top speed	50mph (80kph)
Range	At least 100 miles (160km)
Physical	
Bike mass	80 kg (Total mass including Core)
Fuel	
Hydrogen	99.9% purity
Oxygen	Taken from air
Hydrogen refuel time	Less than 5 minutes
Interface	
Electrical connection	Multi-core (Intelligent Energy specific)

