



PRESS RELEASE

## **DRAYSON TECHNOLOGIES UNVEILS BREAKTHROUGH RF ENERGY HARVESTER: FREEVOLT™**

**LONDON 30 SEPTEMBER 2015** - Today Lord Drayson, CEO and Chairman of **Drayson Technologies** introduced **Freevolt™** : a revolutionary energy harvesting technology that turns ambient radio frequency waves (RF) into usable electricity to charge low power electronic devices.

The patented<sup>1</sup> technology was developed by an international team from Drayson Technologies and Imperial College London. Drayson Technologies is the first to market with this technology, which as of today, is commercially available for license to the international developer and business communities.

*“Companies have been researching how to harvest energy from WiFi, cellular and broadcast networks for many years,” says Lord Drayson. “But it is difficult, because there is only a small amount of energy to harvest and achieving the right level of rectifying efficiency has been the issue – up until now.*

*“With Freevolt, we have created something special. For the first time, we have solved the problem of harvesting usable energy from a small RF signal.”*

The Freevolt harvester comprises a multi-band antenna and rectifier, which is capable of absorbing energy from multiple RF bands at almost any orientation.

The small, lightweight design is scalable and suitable for a range of uses, from the ever expanding low-power Internet of Things, such as wearables, sensors and beacons, to built environments, with the potential to integrate Freevolt into the fabric of urban and industrial architecture.

The first commercial application of Freevolt technology is the **CleanSpace™** Tag air sensor, which is currently being manufactured in the UK and is **available for purchase as of today**. This technology creates a crowd-sourced network of personal air sensors, initially across the UK and then expanding to major cities across the world, which will all be powered by Freevolt.

Lord Drayson expands: *“Whether we live in a big city or an increasingly urbanised area in the developing world, radio frequency waves are being generated all around us, at different levels, all the time. Some of this wireless energy goes unused. At Drayson Technologies, we’ve figured out a way to make it useful. We call it Freevolt.”*

Frazer Bennett, technology expert, PA Consulting Group said: *“PA is delighted to have worked with Drayson Technologies. We had the opportunity to draw on our expertise in IT, product development and software applications to co-develop the CleanSpace Tag. We were impressed with the Freevolt technology and its wide applicability to power the internet of things and look forward to continuing the collaboration between PA and Drayson Technologies to commercialise and support the future of Freevolt.”*

David Helms, Chief Product Officer, Radius Networks said: *“Radius Networks is always looking for ways to reduce the cost of powering devices over the lifetime of our deployments. Freevolt*



*offers us the promise to power devices perpetually so we are actively looking for ways to exploit this technology."*

*A spokesperson for Foster & Partners said: "Freevolt is an exceptional innovation that has the potential to power millions of low energy devices. Here at Foster & Partners we are excited to be one of the first organisations to be working with Drayson Technologies to visualise radio frequency harvesting and explore the ways in which Freevolt will help to power technologies that will enable buildings to become intrinsically more intelligent."*

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**Notes to editors:**

1. Patent pending

**About Drayson Technologies**

Drayson Technologies Ltd is a development stage electronics and software company headquartered in London with offices in Silicon Valley focused on the field of wireless energy transfer. Drayson Technologies is exploiting a new proprietary technology, called Freevolt that "harvests" energy from ambient wireless radio frequency networks (Wi-Fi, Cellular, Broadcast TV), to power low-energy electrical devices and eliminate the need for cable charging or changing batteries. The initial implementation of Freevolt RF energy harvesting is in the CleanSpace™ Tag, a personal air pollution sensor that is totally portable.

For more information on Drayson Technologies please visit:

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

**About Freevolt™**

Freevolt™ is a new technology set to revolutionise the way the future is powered. It harvests ambient radio frequency (RF) energy from broadcast, mobile and WiFi networks – energy that is currently wasted – to produce small amounts of electricity. Freevolt™ enables a range of Low Energy Internet of Things (LE-IoT) devices to be perpetually powered. Drayson Technologies is the first to market with a commercial application of this technology and it will be available through license to the international developer community.

For more information on Freevolt please visit:

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

**About CleanSpace™**

CleanSpace™ is a technology-enabled social movement to improve the air we breathe, designed and built by Drayson Technologies and launched to the public in 2015.

CleanSpace™ aims to inform, connect and motivate people to work together to reduce air pollution. Through CleanSpace™, Drayson Technologies aims to prove that technology can connect and empower people to take individual actions that collectively change the world.

For more information on CleanSpace™ please visit:

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

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