

Move over, drones. Impossible reaches possible with its flying battery

September 12 2018, by Nancy Owano



Endurance, endurance. As the drone market potential faces a hurdle in how it can respond to expectations of getting tasks done versus time in the air before needing to recharge, a newbie drone solution appears in the name of US-1 from California-based Impossible Aerospace, capable of flying 90 minutes to two hours on a single charge

An Impossible Aerospace video posted last month was light on content

but, helped by uplifting violins, told viewers that the US-1 was on its way.

Impossible Aerospace claims flying time can last to two hours. The company said to expect a double treat, which would be (1) longer time in the air plus (2) shorter time in recharging mode.

The longer flight time on a single charge amounts to an estimated flight time of 90 minutes to 2 hours.

As for shortened time in recharging, the company is also claiming that the [drone](#) will be capable of recharging up to 75% of its [battery](#) in only 45 minutes.

The company said the [battery life](#) of the [US-1](#) brings it to parity with gasoline-fueled systems.

What is the feature that enables the US-1 to stay in the air for that long? Speaking to *Forbes*, CEO Spencer Gore revealed that basically the body of the drone itself was packed with batteries. Gore was further quoted in *Ubergizmo*. "Our vehicle will be made with lots of really small [cells](#)." He said they use those as structural building blocks for their [aircraft](#).

Actually, Spencer Gore, CEO, did not envision it as a "drone" but something else. Something more than a drone. The US-1, he asserted, is the first aircraft "designed properly from the ground up to be electric, using existing battery cells without compromise."

If you want to get closer to what Gore had in mind it is this: The US-1, he said, is "a flying battery, leveraging an energy source that doubles as its primary structure. This is how electric aircraft must be built if they are to compete with conventional designs and displace petroleum fuels in aviation."

[Reports](#) said [prices](#) start at \$[7,000](#). Impossible Aerospace expects to deliver the first of its drones later this year. The US-1 stated it will be available for delivery in late 2018 and sold online.

The target audience for the drones? Impossible Aerospace said it has started selling units equipped with optical and thermal sensors to firefighters, police departments and search and rescue teams.

When it comes to "useful ranges and endurances in future ([electric aircraft](#))... there has to be a new way of [thinking](#) about design," Gore said in the Reuters report.

More information: impossible.aero/

© 2018 Tech Xplore

Citation: Move over, drones. Impossible reaches possible with its flying battery (2018, September 12) retrieved 19 April 2024 from <https://techxplore.com/news/2018-09-drones-impossible-battery.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.