

# Solar Impulse reaches half way in Japan-US leg

July 1 2015

---



Sun rises after the Swiss-made solar-powered plane Solar Impulse 2 takes off from the international airport in Nagoya, Japan, headed for Hawaii, on June 29, 2015

A solar-powered aircraft flying between Japan and Hawaii as part of a round-the-world bid passed the halfway point of the perilous Pacific

Ocean crossing Wednesday, and smashed its own endurance record.

Solar Impulse 2 had travelled 50 percent of the way to the tropical US state by 0300 GMT, having flown 3,887 kilometres (2,415 miles) with 3,848 kilometres more to go, according to the project.

By that time, the plane and its veteran Swiss pilot Andre Borschberg had logged 56 hours of continuous flight—easily bettering the previous record of 44 hours they had set between China and Japan.

"Already halfway through what is probably the flight of my life! Loving it!," Borschberg tweeted from the cockpit.

The eighth leg of the global circumnavigation was expected to take five days and five nights, and was billed as the most difficult part of the adventure.

The experimental solar-powered aircraft left Japan around 1800 GMT Sunday—the early hours of Monday local time—after spending a month in the central city of Nagoya.

The propeller-driven plane was originally scheduled to fly directly from Nanjing in China to Hawaii, but bad weather along the way forced a diversion to Japan that extended for almost the whole of June as forecasters waited for better conditions.

Borschberg is alone and entirely self-reliant in the 3.8-cubic-metre (134-cubic-foot) unpressurised cockpit.



Pilot Andre Borschberg (L) and the Solar Team go through the usual pre-flight procedures before the Swiss-made solar-powered plane Solar Impulse 2 takes off from the international airport in Nagoya, Japan, headed for Hawaii, on June 28, 2015

Travelling at altitudes of more than 9,000 metres (29,500 feet), he has to use oxygen tanks to breathe and experiences huge swings in temperature throughout the day.

He rests for only 20 minutes at a time and cannot move from his seat, which has a built-in toilet, as well as a parachute and a life raft attached.

Solar Impulse 2 set off from Abu Dhabi earlier this year in a multi-leg attempt to fly around the world without a single drop of fuel.

It has 17,000 solar cells and on-board rechargeable lithium batteries,

allowing it to fly through the night.

Its wingspan is longer than that of a jumbo jet but it weighs only 2.3 tonnes—about the same as a car.

© 2015 AFP

Citation: Solar Impulse reaches half way in Japan-US leg (2015, July 1) retrieved 3 May 2024 from <https://phys.org/news/2015-07-solar-impulse-japan-us-leg.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.