

IAF SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (D2)
Launch Vehicles in Service or in Development (1)

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THE LATEST H3 DEVELOPMENT STATUS AND NEXT-GEN INNOVATIVE LAUNCH CONCEPT

Abstract

The H3, the next Japanese flagship launch vehicle, its concept will provide easy and frequent access to space for not only Japanese government and scientists, but also for customers worldwide as well. Now, H3 rocket has been successfully integrated with ground facility in Tanegashima Space Center. For the next milestone, overall integrated system test and 1st stage hot-firing test is projected to be performed in 3Q of JFY 2022 before the maiden flight in 4Q of JFY 2022. In parallel with H3 development, H3 upgrade and next-gen innovative launch concept study has been started in order to respond to the rapidly evolving changes and increasing demand for satellite launch services, providing:

- a higher payload carrying capability
- a quicker more flexible response to satellite operator needs and customizations
- an affordable service in a way that is reusable and sustainable under mutual collaboration scheme between perspective space industry customers worldwide

In this paper, the latest development status of H3 and Next-Gen Innovative launch concept study is reported.