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M3Or1C-02: [Invited] NASA Assessment of Liquid Hydrogen Aircraft Opportunities and Technologies

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As NASA considers future technologies for aircraft that push towards greater sustainability and a "net-zero" future air transportation system, it is also considering the possibilities of cryogenic alternative fuels. NASA has considered hydrogen as an aircraft fuel since at least 1945 including demonstrations as early as 1957. There have been multiple cycles of interest and development within the agency and while sustainability as a motivation is new, the challenges with implementation are not. While NASA does not currently have extensive investments in aircraft hydrogen technologies, it does have significant expertise with hydrogen for rocket and space applications.

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