

## DOCKETED

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## **Hybrid-electric aircraft for fast, cost-advantaged regional transport of passengers and cargo**

We are developing hybrid-electric aircraft technologies to power next-generation regional air transport of passengers and cargo, offering breakthrough door-to-door speeds and disruptive economics, targeting 500+ miles in 2020, extending to 1,000+ miles by 2030. We are two years into development with a strong cross-functional team, including leaders of the two most powerful flying electric machine programs to-date, and prospective customers across commercial, business and on-demand aviation, and cargo.

We are keen to engage with the California Energy Commission given your focus on electrified transport, to describe the significant impact of our hybrid aircraft on transport statewide, as alternatives or extensions to ground vehicles, and to provide detail on key underlying technologies. We are available for discussions in-person in Sacramento or by video-conference.

Briefly, our technologies are natural extensions of those currently under development for hybrid-electric buses and trucks, but tailored for the high power, high power density, and much greater safety requirements of aviation. These are designed to deliver operating costs 60-90% better than the best current aircraft at door-door speeds equivalent to a business jet, enabling air to offer a flexible, cost-effective and capital light alternative (or complement) to highways and high-speed rail:

Passengers: Regional travel 2-5 times faster than commercial air, at 40-80% lower fares. Or business and on-demand travel at operating costs 60-90% lower than conventional.

Cargo: Regional transport of goods 4-6 times faster than ground at comparable costs.

In addition, our technologies offer an extraordinarily small footprint, 80% or lower emissions (to zero by 2035), quarter the noise, and almost half the runway of comparable aircraft, enabling comfortable, convenient door-to-door travel to most communities and urban centers.

regards,

Ashish Kumar, Ph.D.

Founder and CEO, Tzunum, Inc.

Phone: (415) 938-6730