Fuel cells were invented over a century ago and have been used in practically every NASA mission since the 1960’s. For decades, experts have agreed that solid oxide fuel cells (SOFCs) hold the greatest potential of any fuel cell technology. With low cost ceramic materials combined with extremely high electrical efficiencies, SOFCs can deliver attractive economics without relying on combined heat and power. SOFCs operate at extremely high temperature (typically above 800°C). This high temperature gives them extremely high electrical efficiencies, and fuel flexibility — both of which contribute to better economics.

The Bloom Energy Server® uses solid oxide fuel cells to produce electricity without combustion. This process allows Bloom to create reliable, resilient, sustainable energy at lower and predictable costs. Any number of these Energy Server systems can be aggregated together to form power modules from hundreds of kilowatts to many tens of megawatts. With hundreds of megawatts deployed globally, Bloom is setting the standard for cost effective, all-electric energy. To learn more about Bloom Energy’s fuel cell technology go to: http://www.bloomenergy.com