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Site Analysis Report

For Fuel Cell Installation At JSR Micro 1260 North Mathilda Ave. Sunnyvale, CA 94089



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Bloomenergy

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1 **Project Description**

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We are proposing to install 1.1 MW solid oxide fuel cell generators (a.k.a., the "Bloom Energy Server") and associated ancillary equipment at the existing JSR Micro facility at 1260 North Mathilda Ave., Sunnyvale, CA 94089.

The equipment is proposed to be placed in the landscape area in front of the warehouse building next to the parking lot. The proposed system area is located at north side of the property. Shrubs and fence screening is proposed to be installed in front of the new proposed equipment. See site plan for additional information. The location was chosen based customer preference and plenty of parking area for servers not to be visible in the right of way. Also, other areas behind the the JSR building there will be future projects/construction they are planning for. There have been no previous fuel cell installs at this site. The total disturbed area of this project is 6475 sf.

The purpose of the generator is to provide clean base load power generated "at the site, for the site" as an alternative to power from the existing energy grid. Bloom Energy generates clean, reliable power onsite with minimal environmental impact, making the Bloom Energy Server one of the most sustainable solutions on the market today.

Compared to alternative sources, Bloom delivers enhanced sustainability benefits in many ways: high efficiency, greenhouse gas emissions reductions, avoided air pollutants, small physical footprint, and reduced water use. Much in the same way that computer and telephone technologies have been revolutionized (as they were once large, inefficient and clunky), our aim at Bloom is to be a leader in the environmentally friendly, 21st century energy revolution by creating highly customizable and adaptable, at-site energy solutions for our customers as opposed to the present energy grid-troubled by aging infrastructure, pollution and transmission loss over miles and miles of unsightly power lines. The Energy Server is able to work by converting fuel directly into electricity without the need of combustion as a conventional electrical generator would. The process is a quiet application involving a chemical reaction, natural gas and air, heating tiles to produce clean energy.

2 Key Assumptions

The following key assumptions are included in the site analysis.

- 1. Site Construction Assumptions
 - Equipment will be placed within the existing gravel landscape area.
 - Shrubs and fence screening will be installed in front of the new proposed equipment.
 - Drainage will continue as currently constructed.
 - This project does not have impact to the existing parking numbers.
 - New trench from energy server area to the facility's electrical building will be required for connection of electrical conduits.
- 2. Electrical
 - The site will require a single electrical interconnection to the existing electrical room.
 - There are no requirements for major utility modifications or meter relocation.
- 3. Gas
 - New gas meter will be set for the energy servers.
 - The gas run will be trenched or directionally bored to new service meter then to the energy servers.
- 4. Water
 - The water will be piped from the existing water line between the water tap in warehouse building to the energy server area.
 - The system process will consume all water delivered to the equipment. No water discharge is required.