

**From:** [Andrew Breyer](#)  
**To:** [O'Connor, Kevin](#)  
**Cc:** [cindymuller@google.com](#); [russell.carr@rewardsprojects.com](#); [brflynn@flynnrci.com](#); [Doug Boccignone](#); [Mike Keller](#); [Ekern, Bill](#)  
**Subject:** Re: FW: PG&E Application Responses  
**Date:** Monday, June 1, 2020 12:45:58 PM

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[External Email]

Hi Kevin,

Based on our conversation today please see responses below in **green**

1. You indicated that this is a “preliminary response.” Can I assume that you are working on the other items we included in the Draft Response email and documents which are not detailed below? They include the following:
  - a. Confirm Attachment 2 – Point of Interconnection reflects Google’s current plans for the locations of the undergrounded PG&E 115 kV lines, the City substation and the tap connections to the underground lines. **Confirmed. Please note that this is in addition to the other options being studied in Google's application not in lieu of.**
  - b. Please review and comment on the response to the question about on-site generation, especially the amount of solar and whether to include storage and non-solar generation. **Please defer on this for now.**
2. While much of the information will be the same and can also reference Google’s application, the City intends to submit a “stand-alone” application that is complete as possible based on available data, diagrams, load projections, etc. As new information is developed, we can update. Ideally we would submit our first response this week or next. **Confirming using the load data from the April 22 shared deck with the City.**

- Please review the description of type of load: summer or winter peaking, daily cycling, residential, commercial, (heavy, light) industrial, pump, dispatchable.

**Mixed use development. Primarily commercial and residential.** Please sync all load assumptions with Google's application. Does Google’s application specifically state “Mixed-use development. Primarily commercial and residential”? Is Google suggesting that we include the comment, “Please sync all load assumptions with Google’s application”? **Confirming Mixed Use Development**

- If Google has identified the Power Factor associated with the forecast 2026 and 2035 demands, please provide it.

**No power factor has been identified . However a transmission connection has to maintain power factor between 0.97 lag to 0.99 lead so the design of the site will be held to this. Should the City consider its response okay? This is sufficient**

- Attachment 3 – Load Forecast. Please provide monthly demand and energy for 5 – 10 years.

**Please sync all load assumptions with Google's application. City will want to provide separately when available. If not available now or soon, we will state TBD and to be synced with Google’s application in our first submittal. Aligns with Point 2**

- Please review and comment on Attachment 4 – General Arrangement  
This is an approximate space plan for the Google substation that Arup mocked up some time ago. No comments on this. The GIS arrangement may not be necessary in a tapped arrangement. City to provide a diagram of general arrangement without specific detail. Yes, and thank you
- Please provide input re: pumping plants and industrial facilities, starting KVA and power factor of the largest motor or group of motors  
Early stage of the project, we do not have this information. However, as stated earlier this is a mixed use development. Primarily commercial and residential. Please sync all load assumptions with Google's application. City will state "TBD." That works
- Please review and comment on Attachment 5 – Single Line Diagram  
Tapped arrangement. It is our understanding that PG&E will not accept this as these are CAISO controlled transmission lines. PG&E to confirm. City keep current response. That works

On Wed, May 27, 2020 at 4:17 PM O'Connor, Kevin <[Kevin.Oconnor@sanjoseca.gov](mailto:Kevin.Oconnor@sanjoseca.gov)> wrote:

Hi Andrew,

Thank you for the quick turnaround. I've reviewed and provided some feedback to your specific responses below in Red. I also have some general feedback/questions as follows:

1. You indicated that this is a "preliminary response." Can I assume that you are working on the other items we included in the Draft Response email and documents which are not detailed below? They include the following:
  - a. Confirm Attachment 2 – Point of Interconnection reflects Google's current plans for the locations of the undergrounded PG&E 115 kV lines, the City substation and the tap connections to the underground lines.
  - b. Please review and comment on the response to the question about on-site generation, especially the amount of solar and whether to include storage and non-solar generation.
2. While much of the information will be the same and can also reference Google's application, the City intends to submit a "stand-alone" application that is complete as possible based on available data, diagrams, load projections, etc. As new information is developed, we can update. Ideally we would submit our first response this week or next.

Kevin O'Connor  
Energy Resilience Coordinator  
City of San Jose Community Energy Department  
Email: [kevin.oconnor@sanjoseca.gov](mailto:kevin.oconnor@sanjoseca.gov)  
Ph: [\(408\) 535-8538](tel:(408)535-8538)

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**From:** Andrew Breyer <[breyer@google.com](mailto:breyer@google.com)>  
**Sent:** Wednesday, May 27, 2020 3:10 PM  
**To:** O'Connor, Kevin <[Kevin.Oconnor@sanjoseca.gov](mailto:Kevin.Oconnor@sanjoseca.gov)>; Cindy Muller <[cindymuller@google.com](mailto:cindymuller@google.com)>; Russell Carr <[russell.carr@rewsprojects.com](mailto:russell.carr@rewsprojects.com)>  
**Subject:** PG&E Application Responses

[External Email]

Hey Kevin,

Sorry for the delay here, please see our preliminary response below. There are a few items about the load that we would like the City to sync with our existing application. Cindy and I can brief you over the phone at some point over the next week on that. Let us know if your team has any questions with these or if there is a concern with the level of detail needed at this point.

- Please review the description of type of load: summer or winter peaking, daily cycling, residential, commercial, (heavy, light) industrial, pump, dispatchable.

Mixed use development. Primarily commercial and residential. Please sync all load assumptions with Google's application. Does Google's application specifically state "Mixed-use development. Primarily commercial and residential"? Is Google suggesting that we include the comment, "Please sync all load assumptions with Google's application"?

- If Google has identified the Power Factor associated with the forecast 2026 and 2035 demands, please provide it.

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- Attachment 3 – Load Forecast. Please provide monthly demand and energy for 5 – 10 years.

Please sync all load assumptions with Google's application. City will want to provide separately when available. If not available now or soon, we will state TBD and to be synced with Google's application in our first submittal.

- Please review and comment on Attachment 4 – General Arrangement

This is an approximate space plan for the Google substation that Arup mocked up some time ago. No comments on this. The GIS arrangement may not be necessary in a tapped arrangement. City to provide a diagram of general arrangement without specific detail.

- Please provide input re: pumping plants and industrial facilities, starting KVA and power factor of the largest motor or group of motors

Early stage of the project, we do not have this information. However, as stated earlier this is a mixed use development. Primarily commercial and residential. Please sync all load assumptions with Google's application. City will state "TBD."

- Please review and comment on Attachment 5 – Single Line Diagram

Tapped arrangement. It is our understanding that PG&E will not accept this as these are CAISO controlled transmission lines. PG&E to confirm. City keep current response.

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