

1.19 UTILITIES AND SERVICES SYSTEMS

The following discussion evaluates the potential changes in impacts associated with utilities and service systems and the conclusions from the Proponent’s Environmental Assessment (PEA) with the incorporation of the Proposed Project’s design modifications as described in the redlined version of Chapter 3 – Project Description. The table below summarizes the impact determinations from the PEA and the impact determinations with the incorporation of the design modifications.

Would the project:	PEA Impact Determination	Impact Determination with Design Modifications
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	Less-than-Significant Impact	Less-than-Significant Impact
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?	Less-Than-Significant Impact	Less-Than-Significant Impact
c) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project’s projected demand in addition to the provider’s existing commitments?	Less-than-Significant Impact	Less-than-Significant Impact
d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	Less-than-Significant Impact	Less-than-Significant Impact
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	No Impact	No Impact
f) Increase the rate of corrosion of adjacent utility lines as a result of alternating current impacts?	Less-than-Significant Impact	Less-than-Significant Impact

Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

Construction, Operation and Maintenance

LSPGC and PG&E Components

Water

Less-than-Significant Impact. Design modifications to the Proposed Project components would require minimal additional water to support work areas associated with the proposed Pacific Gas and Electric Company (PG&E) 500 Kilovolt (kV) Transposition Structures. Expansion of the grading area of the proposed LS Power Grid California, LLC (LSPGC) Collinsville Substation,

as well as installation of overhead riser structures and shifts in structures along the proposed LSPGC 230 kV Overhead Segment, would similarly not create a substantial need for additional water use beyond what is already proposed in the existing PEA as the construction of these structures would be limited and similar in nature to the activities proposed in the original design and therefore would not require significantly more water. As a result, and consistent with the PEA, impacts would continue to be less than significant.

Wastewater and Storm Water

Less-than-Significant Impact. Design modifications to the proposed LSPGC Collinsville Substation grading would not require additional wastewater usage and would not affect stormwater facilities. The footprint of the substation would change slightly to avoid impacting a delineated water of the State and would not significantly increase in size. Further, the site drainage would remain consistent with the original design, and no sanitary facilities are proposed due to the remote operation of the substation. The addition of the proposed PG&E 500 kV Transposition Structures would not create an increase in wastewater service requirements beyond additional portable toilet services for the temporary work areas, and no new wastewater or storm water infrastructure is proposed to be constructed. As a result, and consistent with the PEA, impacts would continue to be less than significant.

Electrical Power and Natural Gas

Less-than-Significant Impact. The Proposed Project design modifications would not require additional temporary sources of power or require the removal and/or relocation of existing utilities in the area. The four proposed PG&E 500 kV Transposition Structures would be installed within an existing PG&E right-of-way (ROW) easement, and the proposed LSPGC 230 kV Submarine Segment and 230 kV Underground Segment would be reduced in size from the original design. As a result, and consistent with the PEA, impacts would continue to be less than significant.

Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?

Construction, Operation and Maintenance

LSPGC and PG&E Components

Less-than-Significant Impact. The design modifications to LSPGC Proposed Project components would not require additional water use beyond what was identified in the PEA. Additionally, the proposed PG&E 500 kV Transposition Structures would be constructed within the existing PG&E ROW easement and with similar construction methods as the proposed PG&E 500 kV Interconnection, which does not necessitate a significant use of water resources. As a result, and consistent with the PEA, impacts would continue to be less than significant.

Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Construction, Operation and Maintenance

LSPGC and PG&E Components

Less-than-Significant Impact. The Proposed Project design modifications would not result in an increase in the demand on wastewater treatment providers because no permanent sanitary facilities are proposed, and only a marginal increase in portable toilet services associated with the construction of the proposed PG&E 500 kV Transposition Structures would be required. As a result, and consistent with the PEA, impacts would continue to be less than significant.

Would the project generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Construction

LSPGC and PG&E Proposed Project Components

Less-than-Significant Impact. Waste generated during construction activities would decrease due to the reduction in the number of cables associated with the proposed LSPGC 230 kV Submarine Segment and utility vault structures but would increase slightly due to the four proposed PG&E 500 kV Transposition Structures. These design modifications would not generate solid waste that is greater than state or local standards, that exceeds the capacity of local infrastructure, or that otherwise impairs the attainment of Solano County, Sacramento County, or Contra Costa County solid waste reduction goals. As a result, and consistent with the PEA, impacts would continue to be less than significant.

Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Construction, Operation and Maintenance

LSPGC and PG&E Proposed Project Components

No Impact. The design modifications would not change the disposal of construction waste associated with the Proposed Project. As a result, and consistent with the PEA, no impacts would occur.

Would the project increase the rate of corrosion of adjacent utility lines as a result of alternating current impacts?

Construction, Operation and Maintenance

LSPGC and PG&E Proposed Project Components

Less-than-Significant Impact. Design modifications to the proposed LSPGC Proposed Project components would not cause a change in the rate of corrosion of adjacent utility lines, because there would be only slight modifications to the location of the proposed LSPGC 230 kV Overhead Segment to avoid impacts to waters, as well as a reduction in the number of cables required to traverse the Sacramento-San Joaquin River Delta. Further, the proposed PG&E

500 kV Transposition Structures would not change the proximity of PG&E's 500 kV infrastructure to adjacent utility lines. As a result, and consistent with the PEA, impacts would continue to be less than significant.

References

- Contra Costa County. 2024. Contra Costa General Plan 2045 Public Facilities and Services Element. Online. <https://www.contracosta.ca.gov/DocumentCenter/View/84949/Chapter-8---Public-Facilities-and-Services-Element-PDF>. Site visited January 2025.
- LSCE Team. 2023. Solano County and Solano Subbasin Groundwater Sustainability Annual Report – Water Year 2022. Online. https://www.solanogsp.com/wp-content/uploads/2023/04/5-021.66_WY_2022_Annual-Report.pdf. Site visited January 2025.
- Sacramento County. 2022. General Plan. Online. <https://planning.saccounty.gov/PlansandProjectsIn-Progress/Pages/GeneralPlan.aspx>. Site visited January 2025.
- Solano County. 2008. Solano County General Plan Public Facilities and Services. Online. <https://www.solanocounty.com/civicax/filebank/blobdload.aspx?BlobID=6498>. Site visited January 2025.
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