| *Line* | *Transmission Project Data Field* | *Format* | *Example* | *Input Terms and Descriptions* |
|---|---|---|---|---|
| 1 | Row/Line No. | Number (whole number) | 4 | Row/line number in spreadsheet. Include separate project lines, as described and required in data fields 26-28, for all subparts, i.e., ID #1 of all FERC-jurisdictional electric transmission projects, including generator interconnection-related network upgrades: 1. the total cost of which At Unique ID #2 will at any point equal or exceed $1 million. In the event that there is no ID#2 to provide, the million-dollar threshold applies to ID #1. and 2. for which there were capital expenditures in the last five years OR for which any capital expenditures are anticipated in the current or next four years, regardless of the actual or anticipated operative date. Each project should have at least one Row/Line No. in this spreadsheet, as subparts of projects will require additional project lines. |
| | **Project Description** | | | |
| 2 | Project Name | Text String, separated by " \| " as necessary | Manzanita Substation | Include Project Name at date of report filing. Identify all prior names of the project and other names currently used in different venues, including the name as approved and included in the CAISO's TPP. |
| 3a | Latitude | Number (decimal), separated by " \| " for multiple locations*; NA if no geolocation (e.g. systemwide software). Use multiple locations (endpoints) for transmission lines and center for centralized assets. | 20.234 \| 19.983 | Positive number indicates north of equator. Subject to redaction in the public data. |
| 3b | Longitude | Number (decimal), separated by " \| " for multiple locations*; NA if no geolocation (e.g. systemwide software). Use multiple locations (endpoints) for transmission lines and center for centralized assets. | -12.018 \| 12.231 | Negative number indicates west of Prime Meridian. Subject to redaction in the public data. |
| 4 | Location 2 | Text String, with comma separator between City and County. Multiple entries separated by " \| ". Order of values to be consistent with latitude and longitude values<br><br>* City1,County1 \| City2,County2 | Berkeley,Alameda \| Marin,Contra Costa | All Cities and Counties included in the scope of the project |
| 5 | Project Description | Text String | This project will effect repairs upon the transmission line connecting 4th and Townsend to the East Northfork station which failed as consequence of the 2019 San Clemente Hedge Fire. Assets to be replaced include... at ....kV. | General project overview: what, where, and why. Discuss all assets to be installed and include all capacities (MVA) and voltages (kV). |
| 6 | Project Description - What | Text String, with " \| " separator as necessary<br><br>* asset type (detail) \| asset type (detail) | Substation (breaker) | Transmission line (new, reconductor, relocation), substation (breaker, transformer relay protection), etc. (provide list of all categories) |
| 7 | Project Description - Action Taken | Text String, with " \| " separator as necessary<br><br>* action \| action | upgrade \| repair | New, replacement, upgrade, etc. (provide list of all categories) |
| 8 | Project Dependencies | Number (whole) indicating required project or projects' Unique ID #(s), separated by " \| " as necessary | 235435 \| 432787 | Identify all other projects (Unique ID #1) in the spreadsheet that this project depends on and/or whose construction will be bundled with this project. |
| 9 | Primary Purpose | Text String | Reliability | May include, but not limited to: CAISO Transmission Planning Standards (NERC Compliance and contingency code, WECC Requirement (and the specific requirement)), Reliability, Load Growth, Local Capacity Requirement, Address Results of Power Flow Analysis, Address Results of Protection Studies, Physical Security, Policy, Economic, Generator Interconnection, Work Requested by Others, Age/End of Life, Wildfire Mitigation, Field Test Results, Emergency Event, Location, Environmental Conditions, Safety, Asset Condition, or Other. In the "Notes" data field, please explain a purpose identified as "Other" or provide additional details on the purpose identified. |

| | | | | |
|---|---|---|---|---|
| 10 | Secondary Purpose | Text String | Priority 1 Steel Structure Replacement | May include, but not limited to: 3rd Party Damage, Age/Condition, Age/Condition - 230/115/70/60 kV Relay Replacement, Age/Condition - 500 kV Relay Replacement, Age/Condition - Anti Climb Guards, Age/Condition - Insulator Replacement - Steel, Age/Condition - Insulator Replacement - Wood, Age/Condition - Raptor Protection - Steel, Age/Condition - Replace 230/115/70/60 kV Breakers, Age/Condition - Replace 230/115/70/60 kV Transformers, Age/Condition - Replace 500 kV Breakers, Age/Condition - Replace 500 kV Transformers, Age/Condition - Replace Boardwalks, Age/Condition - Replace Breakers, Age/Condition - Replace Civil Structures, Age/Condition - Replace Conductor, Age/Condition - Replace Insulators, Age/Condition - Replace Other Substation Equipment, Age/Condition - Replace Other T-Line Equipment, Age/Condition - Replace Reactors, Age/Condition - Replace Relays, Age/Condition - Replace Relays, Age/Condition - Replace SCADA/RTU, Age/Condition - Replace Steel Poles, Age/Condition - Replace Switches, Age/Condition - Replace Transformers, Age/Condition - Replace Underground System, Age/Condition - Replace Wood Poles, Age/Condition - Switch Replacement - Steel, Age/Condition - Switch Replacement - Wood, Age/Condition - Targeted Relay Replacement, Age/Condition - Wood Pole Reframe, Animal Abatement, Automation, Bus Upgrade, Compliance - Remove Idle Facilities, Construct Roads/Gates/Culverts, Emergency Response - Fire Related, Emergency Response - Storm Related, Environmental, Facility Relocation, Fire Protection, Generation Interconnection, GO95 Mitigation - Steel, Install SCADA/RTU, Line Reconductoring, Line Termination, Load Interconnection, Modular Protection and Automation Control, NERC CIP Compliance, NERC Compliance - GO 95, New Substation, New T-Line, Priority 1 Steel Structure Replacement, Priority 1 Wood Structure Replacement, Protection NERC Compliance, Relay Upgrades, Replace Breakers, Replace Other Substation Equipment, Replace Transformers, Safety - Line Right of Way Access, SCADA Emergency Replacement, SCADA Switch Installation, Security Upgrades, Seismic Upgrade - Replace Conductor, Special Protection Scheme, Substation Capacity, Substation Reliability, System Design Upgrade, System Operations, Targeted Line Reliability, T-Line Capacity, T-Line Emergency, T-Line Reliability, Tools, Transformer Addition/Replacement, Underground Emergency, Voltage |
| 11 | NERC / WECC / CAISO Standard / Requirement / Contingency | Text String from discrete list*, separated by " \| " as necessary | | If the primary or secondary purpose relates to complying with a NERC, WECC, or CAISO requirement, list the specific standard(s), requirement(s), and/or any contingencies that are being addressed. |
| 12 | Last Inspection | Date, formatted YYYY-MM-DD if text; NA if not yet inspected | 2019-12-10 | Specific date when the last inspection of the asset being repaired, replaced, or upgraded occurred. |
| 13 | Age of Asset | Number (whole number) | 12 | Age in years from original in-service date of the asset being repaired, replaced, or upgraded. This reflects the age in-service to date or the age of the asset at the time it was replaced. Where multiple assets are involved or clarification is otherwise appropriate, use the Notes field (70) to provide details. If there is no preexisting major asset, the age is zero (0). If the asset has previously been significantly upgraded, the date of the upgrade may be used, with explanation in Notes. |
| 14 | Types of Analyses | Text String from discrete list*, separated by " \| " as necessary<br><br>test1. description1 \| test2. description2 | | Types of analyses that have been performed on the asset being repaired, replaced, or upgraded (e.g., load flow, short circuit, corrosion). List all field test and results that indicated the need for the project. Include inspector ID, when available. |
| 15 | Alternative Solutions and Costs | Text String, separated by " \| " as necessary<br><br>Cost1; Option1 \| Cost2; Option2 | | Include all alternative solutions to the project that were considered and the costs of all alternatives considered. |
| 16 | CPUC Fire Threat Zone/Rating | Text String, separated by " \| " as necessary, or NA | HFTD Tier 2 | Indicate whether the project is located in Tier 2 or Tier 3 in CPUC's High Fire-Threat Districts (HFTD) or Zone 1 in CalFire/USFS High Hazard Zone (HHZ). |
| 17 | Wildfire Related | Boolean, TRUE or FALSE, divided by " \| " | TRUE \| TRUE \| FALSE | Explain whether the project is 1. related to repairing wildfire damage, 2. a measure identified in the Wildfire Mitigation Plan, or 3. is related to wildfire in some other way. If #3, please explain in the "Notes" data field. |
| 18 | RAMP | Boolean, TRUE or FALSE | TRUE | Indicate whether the project is a proposed mitigation measure in the utility's Risk Assessment & Mitigation Phase (RAMP). |
| 19 | Other Environmental Factors | Text String, or NA | Project exists in CA Building Climate Zone 3 which presents a high risk of accelerated oxidation or steel structures due to coastal humidity and salt exposure. | Environmental factors in the project's location that may affect the length of the asset's service life. |
| 20 | Project Manager | String - Last, First | Doe, John | Person in charge of the implementation of this project for the Utility. |
| 21 | Transmission Project Size (length in miles) | Number (decimal), or NA | 42.66 | Miles of transmission power lines included in the project. |
| 22 | Substation Project Footprint (acres) | Number (decimal), or NA | 12.25 | Acres of substation footprint included in the project. |
| 23 | Transmission Voltage Level (kV) | Number (whole), or NA | 230 | Use kV for transmission power lines ratings. |
| 24 | Substation or Transformer Capacity (MVA and/or kV) | Text String, or NA if unrelated | 115kV | Use MVA and/or kV for substations. |
| 25 | Utility Prioritization Ranking | Number (whole), in reference to ranking system identified in field name | 1 | Using the Utility's prioritization ranking. If multiple metrics are used to prioritize projects, please include a separate data subfield for each. (Sub-columns can be created to accommodate multiple or tiered ranking methodologies.) |
| 26 | Utility Unique ID #1 | Number (whole) | 78493 | Most specific (PG&E = Planning Order, SCE = SCE ID, SDG&E = Project ID) |
| 27 | Utility Unique ID #2 | Number (whole) | 432 | Less specific (PG&E = T.dot, SCE = Capital Work Breakdown Structure, SDG&E = Budget Code) |
| 28 | Utility Unique ID #3 | Number (whole) | 92 | Least specific (PG&E = Major Work Category, SCE = Project Identification Number, SDG&E = NA) |

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|---|---|---|---|---|
| 29 | Changes in Unique IDs | Date, formatted YYYY-MM-DD, and former identifiers:<br><br>YYYY-MM-DD \| UID3 \| UID2 \| UID 1<br><br>If any components remain unchanged, use NA for those UIDs | 2022-05-05 \| NA \| NA \| 78322 | If any of the Unique IDs above changed at any time, please note the date of change and the former ID. |
| | **Utility/CAISO Approval and FERC Rate Cases** | | | |
| 30 | Utility Approval | Boolean: TRUE or FALSE | TRUE | "TRUE" if a non-CAISO project. "FALSE" if a CAISO project. |
| 31 | Year of Internal Utility Approval | Date, formatted YYYY-MM-DD, or NA | 2022-04-02 | If utility has approved the project, insert first year of internal approval. If not insert "NA." |
| 32 | Process(es) for Utility Approval | Text String, or NA | STAR | If utility has approved the project, insert utility approval process for which a description has been provided to the CPUC and Stakeholders. |
| 33 | Long term Transmission Investment Plan Inclusion | Year, formatted YYYY | 2022 | The year in which the project was first included in the utility's long-term transmission investment plan. |
| 34 | CAISO Year | Year, formatted YYYY, or NA | 2019 | Insert the year when approved by CAISO. If not a CAISO-approved project, insert "NA". |
| 35 | Transmission Planning Process ("TPP") Phase 3 | Boolean: TRUE or FALSE | FALSE | Please indicate with "TRUE" if any part of this project was subject to the competitive solicitation process in the TPP. In the Notes section briefly describe any portion of the project awarded to another developer and how it relates to the project in this Spreadsheet. |
| 36 | Year(s) when considered in CAISO TPP | Years, formatted YYYY and separated by " \| ", or NA | 2020 \| 2021 | Indicate years in which the project was considered in the TPP. If considered in year(s) prior to CAISO approval, please indicate all years. |
| 37 | Year when expected to be considered in CAISO TPP | Years, formatted YYYY and separated by " \| ", or NA | 2025 | If not yet considered in the CAISO TPP, indicate the year when it is expected to be considered in the CAISO TPP. |
| 38 | Link to TPP where project has been considered, approved, and/or expected to be considered | URL | http://www.caiso.com/Documents/BoardApproved-2017-2018_Transmission_Plan.pdf | Insert active hyperlink to any TPP where project was considered, including years in which the project was not approved. |
| 39 | Generator Interconnection and Deliverability Allocation Procedures (GIDAP) Related | Boolean: TRUE or FALSE | TRUE | Please indicate with TRUE or FALSE whether this transmission project is a transmission network upgrade related to generator interconnection(s). |
| | **CPUC Permit Status** | | | |
| 40 | CEQA Status | Text String, or NA | Final Certified | Include one of the following along with the corresponding date: Expected PEA Completion, PEA Deemed Complete, CEQA Draft Published, CEQA Final Published, Final Certified, TBD, NA. |
| 41 | CEQA/NEPA Document Type | Text String, or NA | StatEx | Examples include: IS/ND/MND, EIR, EIR/EIS, MND/EA/FONSI, CatEx, StatEx, no discretionary permit, Other, or NA (If "Other" or "NA," include explanation in the "Notes" data field.). |
| 42 | CEQA/NEPA Lead Agency | Text String, or NA | CPUC | Examples include: CPUC, SWRCB, CSLC, Other, NA etc. (If "Other" or "NA," include explanation in the "Notes" data field.). |
| 43 | CPUC Filing Type | Text String, or NA | PG&E AL 2355-E | NOC Advice Letter (AL), Application for 851, PTC, CPCN, Other, or NA (if Other or NA include explanation). If an AL, include the number; If an Application, include number. |
| 44 | CPUC Date Filed | Date, formatted YYYY-MM-DD, or NA | 2022-04-08 | The year filed at the CPUC or insert "Not yet filed" with the expected filing date. |
| 45 | CPUC Status | Text String, or NA | Approved | Insert "Approved", "Rejected", "To be Filed", "Filed and Under Review," "Other," or "NA" (If Other or NA, include explanation in the "Notes" data field.). |
| 46 | CPUC Status: Year | Year, formatted YYYY, or NA | 2019 | Insert the year this CPUC Status was determined. |
| | **Project Status** | | | |
| 47 | Project Status | Text String from list | Construction (10%-25%) | Planning, Engineering less than 50% complete, Engineering more than 50% complete, Permitting, Construction (include percentage of construction completed at the time this data spreadsheet is provided (i.e., less than 10%, 10%-25%, 25%-50%, 50%-75%, greater than 75%), Operational, On Hold, Canceled, or Abandoned (if On Hold, Canceled, or Abandoned, include explanation in the "Notes" data field.).<br><br>Where "percentage of construction complete" options are concerned, the percentage is defined as the percent of total estimated construction funds (i.e., percentage of construction share of the EAC) spent from inception to date. |
| 48 | AACE Class | Text String, or NA | Class 3 | The current Estimate Class in AACE International's Cost Estimate Classification System at the time this data spreadsheet is provided. |
| 49 | Construction Start Date | Date, formatted YYYY-MM-DD, or NA | 2025-06-01 | The date on which construction began or is expected to begin. |
| 50 | Original Planned In-Service Date | Date, formatted YYYY-MM-DD, or NA* | 2025-06-01 | What was the expected in-service date when the project was first approved by the CAISO? If not a CAISO-approved project, provide the expected in-service date when the project was approved internally by the Utility. |
| 51 | Current Projected or Actual In-Service Date | Date, formatted YYYY-MM-DD, or ____ | 2025-06-01 | At the time the data was extracted from the Utility's Database(s) as provided in Section 2.1.5 of the Transmission Project Review Process Description. |
| 52 | Reason for Change in In-Service Date | Text String from discrete list*, or NA | | If the current projected or actual in-service date varies more than six months from the original in-service date, please explain all reasons for this change. |
| 53 | In-Flight Projects | Boolean: TRUE or FALSE | TRUE | For projects with costs expected to go into rate base in the current rate year or in the following rate year at FERC, please indicate with "TRUE." If there will be no additions to rate base in either year, indicate with "FALSE." |

| | Costs | | | |
|---|---|---|---|---|
| 54 | Original Projected Cost or Cost Range ($000) | Dollar value, or dollar value range, separated by " \| " | 2100 \| 2500 | Forecast cost or forecast cost range for Utility Unique ID #2, i.e., the totality of the project, at the earliest of CAISO, CPUC, or utility internal approval. |
| 55 | Cost Cap ($000) | Dollar value and Text String, separated by " \| ", or NA | 2500 \| CAISO TPP | Insert Cost Cap on project if available, as well as the authority imposing the cost cap. This shall include any maximum cost determined to be reasonable and prudent in a CPUC proceeding or a cost cap set for a competitively bid project in the CAISO's Transmission Planning Process. |
| 56 | Current Projected Total or Actual Final Cost ($000) | Dollar value | 78 | Updated projected fully-loaded total or actual fully loaded final cost of project. Projected total should be the anticipated sum of all capital expenditures, overhead,and AFUDC. Actual cost should be the total expenditures, overhead and AFUDC in the addition to rate base. Operational projects and all data must remain in this report for at least five (5) years after the last of the project's expenditures and capital additions. |
| 57 | Actual Capital Expenditures ($000) | Dollar value | 12 | Please include separate columns for each of the previous five (5) years and one for actual expenditures for the current year as of the date the data was extracted. If these expenditures do not include overheads and AFUDC, please provide those year-by-year. |
| 58 | Projected Capital Expenditures ($000) | Dollar value | 4,650 | For the current year and four (4) future years, provide the year-by-year fully-loaded forecast capital expenditures for the project. Please include separate columns for each year. If these expenditures do not include overheads and AFUDC, please provide those year-by-year. |
| 59 | Construction Work in Progress Expenditures ($000) | Dollar value | 2,350 | Total amount of money that has been spent so far for the project through the last calendar year. |
| 60 | Accrued Overhead | Dollar value | 12 | If the capital expenditures provided in Data Field #57 do not include Overhead, please provide the accrued Overhead through the last calendar year. |
| 61 | Accrued AFUDC | Dollar value | 0 | If the capital expenditures provided in Data Field #57 do not include AFUDC, please provide the accrued AFUDC through the last calendar year. |
| 62 | FERC: Year(s) | Years, separated by " \| ", or NA | 2023 \| 2024 \| 2025 \| 2026 \| 2027 | Insert ALL rate years when any costs of this project went - or are forecast to go - into FERC jurisdictional transmission rate base. |
| 63 | Dollars Put into FERC Rate Base ($000) | Dollar Value, per year column e.g., FERC_dollars_in_rate_base_2022 | 500000 | Insert the year(s) and actual dollars added to FERC jursidictional transmission rate base on the project for each of the four prior years and the present year. This should include additional costs added to rate base in years after operation first occurred. |
| 64 | Percentage of Bid | Percentage to two decimals, and Text String, separated by " \| " | 33.33% \| "SuperPower LLC is developing a third of the project as part of its "TransValley Electrification" project. See http://.... | Percentage (or actual cost) of project implemented by outside developer, as opposed to the incumbent utility. If there is a project being developed by a non-incumbent utility that relates to this project, please indicate the name of the project as approved in the CAISO TPP. |
| 65 | Percentage of Work Requested by Others Passed onto Ratepayers | Percentage to two decimals or dollar value. If both, separate by " \| " | 25.00% \| 2300 | If the project is work requested by others or customer-driven, what percentage of the projects costs has been - or is expected to be - passed onto ratepayers? If the dollar amount being passed onto ratepayers is fixed, then this number can be expressed as a dollar amount. |
| 66 | Cost-Benefit Analysis | Percentage to two decimals, and ranking system identifier, separated by " \| " | 25.00% \| EnergyRank | The Cost-to-Benefit ratio. If the Utility's Cost-Benefit analysis related to its Risk-Based Decision-Making Framework (RDF) has not already been included in the "Utility Prioritization Ranking" data field above, please include it here. |
| 67 | FERC Incentives | Test Strings from discrete list*, separated by " \| ", or NA | Abandoned Plant | List any project-specific transmission incentives granted under any FERC Orders. |
| 68 | Percentage of Cost in High Voltage TAC | Percentage to two decimals | 23.05% | Insert % of project cost recovered in the high-voltage TAC. |
| 69 | Percentage of Cost in Low Voltage TAC | Percentage to two decimals | 0.00% | Insert % of project cost recovered in the low-voltage TAC. |
| | **Notes** | | | |
| 70 | Notes | Strings, inclusive of field identifiers in brackets, separated by 3 linebreaks ("\n\n\n"), or NA<br><br>[ID1] String1<br><br>[ID2] String2 | [CEQA/NEPA Document Type] Form STD762<br><br>[CPUC Status] Approved in part following bifurcation. Details indeterminate as of 5/6/2024. Expected update and clarification by 8/1/2024. | Any additionally requested information or other needed details about the project that were not otherwise covered. |