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## **2025 Annual Progress Report Summary**

Studies Subcommittee

3/24/25

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## Entities with no updates

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Member Systems previously reporting significant facilities in the *WECC Transmission Database* from which, as of March 24, 2025, no report has been received:

| <u>Entity Name</u> | <u>Last Reported</u> |
|--------------------|----------------------|
| 1. AESO            | 2021                 |
| 2. Arevon          | 2024                 |
| 3. PSCO            | 2024                 |
| 4. SRP             | 2024                 |

Member Systems previously reporting and indicating that that have no significant facilities in the *WECC Transmission Database* from which, as of March 24, 2025, no report or update has been received:

| <u>Entity Name</u> | <u>Last Reported</u> |
|--------------------|----------------------|
| 1. DGT             | 2021                 |
| 2. DesertLink      | 2023                 |
| 3. FBC             | 2023                 |

**2025 List of Projects Granted a Waiver of “Significant Impact” Status**

| <b><u>Project Name</u></b>                                           | <b><u>Organization</u></b> |
|----------------------------------------------------------------------|----------------------------|
| 1. Goodyear 230 kV Lines                                             | APS                        |
| 2. Snowflake Solare Transmission Provider Interconnection Facilities | APS                        |
| 3. Q264 Transmission Provider Interconnection Facilities             | APS                        |
| 4. Cholla – Chevelon 345 kV Line Cut-in to Sitgreaves                | APS                        |
| 5. Saguaro Power Campus Upgrades                                     | APS                        |
| 6. North Gila to Orchard 230 kV Line #2                              | APS                        |
| 7. Agua Fria to Contrail 230 kV Line                                 | APS                        |
| 8. CLPT-G16 300 MW Solar/Wind/BESS (CLFP)                            | BHC                        |
| 9. CLPT-G18 Solar/BGESS (CLFP)                                       | BHC                        |
| 10. Six Mile Canyon 500/230 kV Substation Addition                   | BPA                        |
| 11. Bell-Boundary 230 kV No. 1 (Sacheen) Line Upgrade                | BPA                        |
| 12. Lapine 230/115 kV Transformer Addition                           | BPA                        |
| 13. Mirage 345 kV Substation, Airport to Mirage 345 kV Line          | EPE                        |
| 14. Luna – Diablo 345 kV Line Reconfiguration In/Out of Afton 345 kV | EPE                        |
| 15. Rio Grande Unit 6 Conversion to Synchronous Condenser            | EPE                        |
| 16. Amrad 345/115 kV Autotransformer                                 | EPE                        |
| 17. Mountain View Transmission Substation                            | GCPD                       |
| 18. Monument Hill Transmission Substation                            | GCPD                       |
| 19. Painted Hills Transmission Substation                            | GCPD                       |
| 20. Boise Bench – Midpoint #1 230 kV Transmission Line Project       | IPC                        |
| 21. Boise Bench 230 kV Shunt Capacitor Project                       | IPC                        |
| 22. Boise Bench Generation Project                                   | IPC                        |
| 23. Pleasant Valley 2 Generation Project                             | IPC                        |
| 24. Happy Valley Generation Project                                  | IPC                        |
| 25. Kuna Generation Project                                          | IPC                        |
| 26. Black Creek Generation Project                                   | IPC                        |
| 27. Jackalope Generation Project                                     | IPC                        |
| 28. Palette Substation Project                                       | IPC                        |
| 29. RS-B Rack A and Bank A                                           | LADWP                      |
| 30. Adelanto STATCOM                                                 | LADWP                      |
| 31. RA-A Substation Replacement                                      | LADWP                      |
| 32. Redwood Expansion                                                | NVE                        |

|                                                                         |      |
|-------------------------------------------------------------------------|------|
| 33. West Tracy – Comstock Meadows 345 kV line                           | NVE  |
| 34. Shaffer Substation – LMUD Interconnection                           | NVE  |
| 35. Greenlink Nevada North (GLN)                                        | NVE  |
| 36. Peavine 120 kV Substation                                           | NVE  |
| 37. Libra Solar 700 MW Interconnection                                  | NVE  |
| 38. Valmy Simple Cycle Peaker Plants 436.6 MW                           | NVE  |
| 39. Corsac Geothermal Project 115 MW                                    | NVE  |
| 40. Audette 230 kV Switchyard (Switch Phase 1&2)                        | NVE  |
| 41. Reid Gardner – Tortoise 230 kV line #2                              | NVE  |
| 42. Boulder Solar III                                                   | NVE  |
| 43. Sapphire 230/12 kV Substation                                       | NVE  |
| 44. Dry Lake East II Interconnection 200 MW PV/BESS                     | NVE  |
| 45. Dry Lake East I Interconnection 150 MW BESS                         | NVE  |
| 46. Greenlink Nevada West (GLW)                                         | NVE  |
| 47. Covelo 60 kV Voltage Support                                        | PGAE |
| 48. Martin-Millbrae 60 kV Area Reinforcement                            | PGAE |
| 49. Diablo Canyon Area 230 kV High Voltage Mitigation                   | PGAE |
| 50. Crazy Horse Canyon – Salinas – Soledad #1 & 2 115 kV Reconductoring | PGAE |
| 51. Salinas Area Reinforcement                                          | PGAE |
| 52. Cortina #1 60 kV line Reconductoring                                | PGAE |
| 53. French Camp Reinforcement                                           | PGAE |
| 54. Rio Oso – W. Sacramento Reconductoring                              | PGAE |
| 55. Vaca-Plainfield 60 kV line Reconductoring                           | PGAE |
| 56. Camden 70 kV Reinforcement                                          | PGAE |
| 57. Gates 230/70 kV Transformer Addition                                | PGAE |
| 58. Reedley 70 kV Capacity Increase                                     | PGAE |
| 59. Tejon Area Reinforcement                                            | PGAE |
| 60. Monitor Rebuild Project                                             | PGE  |
| 61. Sherwood 230/115kV Transformer Project                              | PGE  |
| 62. Harborton-St Mary 230 kV Reconductor                                | PGE  |
| 63. Horizon-Keeler #1 & #2 230 kV 4000A Upgrades                        | PGE  |
| 64. Double Circuit MidC – White River & Longhorn-MidC 500 kV Lines      | PSE  |
| 65. Issaquah Area Distribution Capacity                                 | PSE  |
| 66. Sedro Woolley 230 kV Substation Upgrade                             | PSE  |

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|                                                                         |      |
|-------------------------------------------------------------------------|------|
| 67. Short Circuit Mitigation for Imperial Valley 230 kV Circuit Breaker | SDGE |
| 68. Short Circuit Mitigation for Miguel 230 kV Circuit Breaker          | SDGE |
| 69. Boone – Lamar 230 kV Reconductor                                    | TSGT |
| 70. Escalante 200 MW Solar                                              | TSGT |



**2024 List of Projects Granted a Waiver of “Significant Impact” Status**

| <b><u>Project Name</u></b>                                              | <b><u>Organization</u></b> |
|-------------------------------------------------------------------------|----------------------------|
| 1. Serrano Solar and Storage Project 230 kV Gen Tie                     | APS                        |
| 2. Rabbit Canyon 500 kV Switchyard and Lines                            | APS                        |
| 3. Dromedary 230 kV Switchyard and Lines                                | APS                        |
| 4. Runaway Additional 230 kV Lines                                      | APS                        |
| 5. Roving Ground Solar and Storage 500 kV Interconnection               | APS                        |
| 6. West Camp Wind Gen-Tie Project                                       | APS                        |
| 7. Sun Valley - Outer Circle 230 kV Line                                | APS                        |
| 8. Sundance – Pinal Central 230 kV Line                                 | APS                        |
| 9. Bagdad 230 kV Transmission Line                                      | APS                        |
| 10. Bianco 230 kV Lines                                                 | APS                        |
| 11. TS22 Project                                                        | APS                        |
| 12. Panda – Freedom 230 kV Line Rebuild                                 | APS                        |
| 13. Pinnacle Peak – Ocotillo 230 kV Line Rebuild                        | APS                        |
| 14. Jojoba-Rudd 500 kV Line                                             | APS                        |
| 15. Runway-Stratus 230 kV Line Cutin to TS21                            | APS                        |
| 16. TS21 – Broadway 230 kV Line                                         | APS                        |
| 17. Four Corners – Cholla – Pinnacle Peak 345 kV line Rebuild           | APS                        |
| 18. Boardman Area Reinforcement Longhorn Substation                     | BPA                        |
| 19. Cross Cascades North Upgrade                                        | BPA                        |
| 20. Horizon 230 kV Substation                                           | CSU                        |
| 21. Midway to Kelker 230 kV line                                        | CSU                        |
| 22. Renewable Generation Standalone Battery Storage 2030                | EPE                        |
| 23. Wanapum-Mountain View 230 kV Transmission Line                      | GCPUD                      |
| 24. GLW Revised Core Upgrades                                           | GLW                        |
| 25. GLW Beatty Area 230 kV Project                                      | GLW                        |
| 26. Newark-N Receiving Stating HVDC                                     | LSPGCA                     |
| 27. Metcalf -Sanjose B HVDC Project                                     | LSPGCA                     |
| 28. Sierra Solar, Lantern Substation and Lantern–Comstock 345 kV line   | NVE                        |
| 29. Hilltop Phase Sifter Move                                           | NVE                        |
| 30. Lazy 5 120 kV Substation                                            | NVE                        |
| 31. Gerlach, Ormat N Valley 2 and San Emedio generation at Eagle 120 kV | NVE                        |

**2025 Annual Progress Report**

| <b><u>Project Name</u></b>                                                | <b><u>Organization</u></b> |
|---------------------------------------------------------------------------|----------------------------|
| 32. TRIC – Newton 120 kV Switchyard and Associated Upgrades               | NVE                        |
| 33. Bordertown To California Sub 120 kV Project                           | NVE                        |
| 34. Stockyard 120 kV Substation                                           | NVE                        |
| 35. Reid Gardner – Harry Allen Line #3                                    | NVE                        |
| 36. Goforth 230/12kV Substation (aka Apex Central)                        | NVE                        |
| 37. El Capitan to Northwest 138 kV Reconductor                            | NVE                        |
| 38. LV Cogen to Highland 138kV Fold into Miller                           | NVE                        |
| 39. Clark – Concourse 138 kV Reconductor                                  | NVE                        |
| 40. Winston 138 kV Switchyard                                             | NVE                        |
| 41. Project Quasar – 138 kV Switching Station                             | NVE                        |
| 42. Apex Substation Project                                               | PAC                        |
| 43. Feedville Substation Project                                          | PAC                        |
| 44. Southern Oregon 230 kV line                                           | PAC                        |
| 45. Alvey-Malin 500 kV Series Compensation Upgrades                       | PAC                        |
| 46. Limber-Terminal 345 kV lines                                          | PAC                        |
| 47. Metcalf 230/115kV Transformers Circuit Breaker Addition               | PGAE                       |
| 48. Lone Tree-Cayetano-Newark Corridor Series Compensation                | PGAE                       |
| 49. Equipment Upgrade at CCSF Owned Warnerville 230 kV Substation         | PGAE                       |
| 50. Los Banos 230kV Circuit Breakers Replacement                          | PGAE                       |
| 51. Panoche 115 kV Circuit Breaker Replacement and 230 KV Bus Upgrade     | PGAE                       |
| 52. Mesa 230/115 kV Spare Transformer                                     | PGAE                       |
| 53. Borden-Storey 230 kV 1 and 2 Line Reconductoring                      | PGAE                       |
| 54. Henrietta 230/115 kV Bank 3 Replacement                               | PGAE                       |
| 55. Blue Lake 230 kV Battery Project                                      | PGE                        |
| 56. Rivergate 230 kV Battery Project                                      | PGE                        |
| 57. Evergreen 115 kV Batter Project                                       | PGE                        |
| 58. Madras Solar 230 kV                                                   | PGE                        |
| 59. Jefferson Solar 230 kV                                                | PGE                        |
| 60. Evergreen-Harborton 230 kV Reconductor                                | PGE                        |
| 61. Hidden Mountain 345 kV Station                                        | PNM                        |
| 62. Severance Substation Solar Project (formerly called Black hallow Sun) | PRPA                       |
| 63. Miguel-Sycamore Canyon 230 kV line Loop-in to Suncrest project        | SDGE                       |
| 64. Imperial Valley – North of SONGS 500 kV line and Substation           | SDGE                       |





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| <b><u>Project Name</u></b>                                     | <b><u>Organization</u></b> |
|----------------------------------------------------------------|----------------------------|
| 65. North Gila – Imperial Valley 500 kV line                   | SDGE                       |
| 66. Rearrange TL23013 PQ-QT and TL6959 PG- Mira Sorrento       | SDGE                       |
| 67. 3 Ohm Series Reactor on Sycamore – Penasquitos 230 kV line | SDGE                       |
| 68. County Acres Generation Project                            | SMUD                       |
| 69. Solano 4 Wind Generation Project                           | SMUD                       |
| 70. Elverta (El Rio) 230kV Substation Rebuild and Expansion    | SMUD                       |
| 71. Laveen 500/230 kV                                          | SRP                        |
| 72. Nate 230 kV                                                | SRP                        |
| 73. Browning Third 500/230 kV Transformer                      | SRP                        |
| 74. Pinal Central Third 500/230 kV Transformer                 | SRP                        |
| 75. Pinal Central fourth 500/230 kV Transformer                | SRP                        |
| 76. Browning Fourth 500/230 kV Transformer                     | SRP                        |
| 77. Rudd Fifth 500/230 kV Transformer                          | SRP                        |
| 78. Rudd Sixth 500/230 kV Transformer                          | SRP                        |
| 79. Milk Creek 345 kV Substation                               | TSGT                       |
| 80. Valent 230 kV Substation                                   | TSGT                       |

**2024 List of Projects Denied a Waiver of “Significant Impact” Status**

| <b><u>Project Name</u></b>                    | <b><u>Organization</u></b> |
|-----------------------------------------------|----------------------------|
| 1. Collinsville 500/230 kV Substation Project | LSPGCA                     |



**2023 List of Projects Granted a Waiver of “Significant Impact” Status**

| <b><u>Project Name</u></b>                                          | <b><u>Organization</u></b> |
|---------------------------------------------------------------------|----------------------------|
| 1. Schultz – Raver 500 kV Series Capacitors                         | BPA                        |
| 2. Pearl – Sherwood 230 kV Corridor Reconfiguration                 | BPA                        |
| 3. Jumpoff Ridge                                                    | CHPD                       |
| 4. Caliente 345/115 kV Autotransformer #3                           | EPE                        |
| 5. West Mesa Line Shunt Reactor (100MVAR) Replacement               | EPE                        |
| 6. Arroyo Variable Line Shunt Reactor (50-100 MVAR) Replacement     | EPE                        |
| 7. Airport Projects                                                 | EPE                        |
| 8. Second Vado 345/115 kV Autotransformer                           | EPE                        |
| 9. New Eddy HVDC Tie Replacement                                    | EPE                        |
| 10. Renewable Generation Standalone Solar 2030 Generation           | EPE                        |
| 11. Renewable Generation Standalone Battery Storage 2030 Generation | EPE                        |
| 12. Renewable Generation Standalone Solar 2032 Generation           | EPE                        |
| 13. Renewable Generation Standalone Battery Storage 2032 Generation | EPE                        |
| 14. GLW 230 kV Upgrades                                             | GLW                        |
| 15. Chip Substation Project                                         | IPC                        |
| 16. Pleasant Valley Solar Project and Substation                    | IPC                        |
| 17. Intermountain – Gonder 230/345 kV Bank M replacement            | LADWP                      |
| 18. New Valley – Rinaldi Line 3 and upgrade Lines 1 and 2           | LADWP                      |
| 19. New Toluca – Atwater Line 2 and Upgrade Line 1                  | LADWP                      |
| 20. Upgrade Rinaldi Airway Lines 1 and 2                            | LADWP                      |
| 21. Rimrock substation Upgrade                                      | NWE                        |
| 22. Redwood Expansion (Project Sutro)                               | NVE                        |
| 23. West Tracy – Comstock Meadows 345 kV line                       | NVE                        |
| 24. Sockyard 120 kV substation                                      | NVE                        |
| 25. Peavine 120 kV Substation                                       | NVE                        |
| 26. Audette 230 kV Switchyard (Switch Phase 1 & 2)                  | NVE                        |
| 27. Reid Gardner BESS                                               | NVE                        |
| 28. Reid Gardner – Tortoise 230 kV line #2                          | NVE                        |
| 29. Aeolus – Freezeout #2 230 kV                                    | PAC                        |
| 30. Clearwater Wind Generation Project                              | PGE                        |
| 31. Pearl/Sherwood Reinforcement Project                            | PGE                        |
| 32. Reconductor Horizon - Keeler #1 230 kV                          | PGE                        |



**Project Name**

**Organization**

- 33. Reconductor Murrayhill - St Mary #1 and #2 230 kV
- 34. Sherwood – St Mary 230 kV line
- 35. Quail Ranch 345 kV Station
- 36. Orme – Rudd 230 kV lines #1 and #2 Upgrade
- 37. Anderson – Kyrene 230 kV #2
- 38. Crosspoint 230 kV Substation

PGE  
PGE  
PNM  
SRP  
SRP  
TSGT



**2022 List of Projects Granted a Waiver of “Significant Impact” Status**

| <b><u>Project Name</u></b>                                                                                    | <b><u>Organization</u></b> |
|---------------------------------------------------------------------------------------------------------------|----------------------------|
| 1. Turkey Creek Solar Project                                                                                 | BHC                        |
| 2. Northern Mid-Columbia Area Project                                                                         | BPA                        |
| 3. South Tri-Cities Reinforcement                                                                             | BPA                        |
| 4. In and out into Picante 345 kV sub from Caliente-Armrad 345 kV Line and Associated Line Reactor at picante | EPE                        |
| 5. Afton North Projects                                                                                       | EPE                        |
| 6. New Amrad SVC/Statcom (replacement for existing SVC)                                                       | EPC                        |
| 7. In-and-Out into Vado 345 KV sub from Afton North-Newman 345 kV line                                        | EPE                        |
| 8. Vado Projects                                                                                              | EPE                        |
| 9. Newman 6 GT5                                                                                               | EPE                        |
| 10. Newman 8                                                                                                  | EPE                        |
| 11. New Trout Canyon 230 kV Switching Station                                                                 | GLW                        |
| 12. New Sloan Canyon 230 kV RAS                                                                               | GLW                        |
| 13. New Innovation 230 kV RAS                                                                                 | GLW                        |
| 14. Cole Substation Project                                                                                   | IPC                        |
| 15. Jackpot Solar Interconnection Project                                                                     | IPC                        |
| 16. IPP AC Switchyard Extension                                                                               | LADWP                      |
| 17. Adelanto AC Switchyard Extension                                                                          | LADWP                      |
| 18. Replacement Converter Station at IPP and Adelanto                                                         | LADWP                      |
| 19. Mead Bank M Replacement                                                                                   | LADWP                      |
| 20. Barren Ridge Re-Expansion                                                                                 | LADWP                      |
| 21. Loop Scattergood-Olympic Cable A into new Pershing Station                                                | LADWP                      |
| 22. Upgrade RS-K Bus 1 and 2                                                                                  | LADWP                      |
| 23. Upgrade Scattergood Auto and Phase Shifting Transformer                                                   | LADWP                      |
| 24. Rimrock Substation Upgrade                                                                                | NWE                        |
| 25. South Butte 230/161 kV bank Replacement                                                                   | NWE                        |
| 26. Shaffer Substation                                                                                        | NVE                        |
| 27. Iron Point – 250 MW PV and Battery Interconnection                                                        | NVE                        |
| 28. Hot Pot Solar – 350 MW PV and Battery Interconnection                                                     | NVE                        |
| 29. Dry Lake Solar – 150 MW                                                                                   | NVE                        |
| 30. Aeolus – Freezeout #2 230 kV line                                                                         | PACE                       |



| <b><u>Project Name</u></b>                                     | <b><u>Organization</u></b> |
|----------------------------------------------------------------|----------------------------|
| 31. Contra Costa PP 230 kV line Terminals Reconfiguration      | PG&E                       |
| 32. Vasona – Metcalf 230 kV line limiting Elements Removal     | PG&E                       |
| 33. Atlantic 230/60 kV transformer voltage regulator           | PG&E                       |
| 34. Cortina Bank #1 230/115/60 kV Transformer Bank Replacement | PG&E                       |
| 35. Metcalf 230 kV Substation Circuit Breaker #No 292 Upgrade  | PG&E                       |
| 36. Cooley Landing Substation Circuit Breaker No 62 Upgrade    | PG&E                       |
| 37. Table Mountain Second 500/230 kV Transformer               | PG&E                       |
| 38. Reconductor Delevan – Cortina 230 kV line                  | PG&E                       |
| 39. Moss Landing – Las Aguilas 230 KV line Series Reactor      | PG&E                       |
| 40. Fountain Wind                                              | PG&E                       |
| 41. Westland Solar Blue                                        | PG&E                       |
| 42. Luna Valley                                                | PG&E                       |
| 43. Daylight                                                   | PG&E                       |
| 44. Pluot                                                      | PG&E                       |
| 45. Pomergranate                                               | PG&E                       |
| 46. Corby                                                      | PG&E                       |
| 47. Sonrisa                                                    | PG&E                       |
| 48. Key Storage 1                                              | PG&E                       |
| 49. Irving Storage                                             | PG&E                       |
| 50. Plano Storage                                              | PG&E                       |
| 51. Tanager Storage                                            | PG&E                       |
| 52. Cormorant Storage                                          | PG&E                       |
| 53. Button Bush Hybrid Solar Energy and Storage                | PG&E                       |
| 54. Sherwood 230 kV Breaker Replacement                        | PGE                        |
| 55. Colorado's Power Pathway                                   | PSCo                       |
| 56. Sacramento Valley Energy Center Generation Project         | SMUD                       |
| 57. Coolidge Expansion Project                                 | SRP                        |
| 58. High-Tech Interconnect Project                             | SRP                        |
| 59. Project huckleberry                                        | SRP                        |
| 60. Burlington – Lamar 230 kV line                             | TSGT                       |
| 61. Boone – Huckleberry 230 kV line                            | TSGT                       |
| 62. Badger Creek – Big Sandy 230 kV line                       | TSGT                       |

## 2025 Annual Progress Report

**Project Name**

**Organization**

63. Big Sandy – Burlington 230 kV Uprate

TSGT

### 2022 List of Projects Denied a Waiver of “Significant Impact” Status

**Project Name**

**Organization**

1. Ready Wyoming Project

BHC



**2021 List of Projects Granted a Waiver of “Significant Impact” Status**

| <b><u>Project Name</u></b>                                           | <b><u>Organization</u></b> |
|----------------------------------------------------------------------|----------------------------|
| 1. AES 230 kV Interconnection at Westwing 230 kV Substation          | APS                        |
| 2. Runway 230 kV Lines                                               | APS                        |
| 3. Hashknife Generation Tie Line Project                             | APS                        |
| 4. Stratus 230 kV lines                                              | APS                        |
| 5. Three Rivers 230 kV line                                          | APS                        |
| 6. Contrail 230 kV lines                                             | APS                        |
| 7. TS2 230 kV lines                                                  | APS                        |
| 8. Broadway 230 kV lines                                             | APS                        |
| 9. TS 17 230 kV lines                                                | APS                        |
| 10. Raver 500/230 kV Transformer Addition Project                    | BPA                        |
| 11. Longview Area 230/115 kV Transformer Addition                    | BPA                        |
| 12. Rocky Reach Solar Interconnection                                | CHPD                       |
| 13. Nixon to Kelker 230kV Line Uprate                                | CSU                        |
| 14. Briargate 230/115kV Autotransformer                              | CSU                        |
| 15. Kelker 230kV and 115kV Substation Rebuild                        | CSU                        |
| 16. Oso Grande Wind                                                  | EPE                        |
| 17. Gamebird 230/138 kV                                              | GLW                        |
| 18. Midpoint T231 230/138 kV Transformer Replacement Project         | IPC                        |
| 19. Cloverdale T231 230/138kV Transformer project                    | IPC                        |
| 20. Boise Bench – Cloverdale 230kV Transmission Line Project         | IPC                        |
| 21. Cloverdale – Locust 230 kV Transmission Line Project             | IPC                        |
| 22. Cloverdale – Hubbard 230 kV Transmission Line Project            | IPC                        |
| 23. Jackpot Solar interconnection Project                            | IPC                        |
| 24. Victorville 287 kV Station Voltage Upgrade to 300 kV             | LADWP                      |
| 25. Barren Ridge 230 kV STATCOM                                      | LADWP                      |
| 26. IPP New Synchronous Condenser 3X250 MVA                          | LADWP                      |
| 27. IPP Coal Unit Replacement with CC Natural Gas                    | LADWP                      |
| 28. McCullough – Victorville Series Compensation Upgrade 500 kV line | LADWP                      |
| 29. Dodge Flat Solar Energy Center                                   | NVE                        |
| 30. Battle Mountain Solar and Storage                                | NVE                        |
| 31. Fish Springs Ranch Solar                                         | NVE                        |
| 32. Apex Solar                                                       | NVE                        |
| 33. Copper Mountain Solar #5                                         | NVE                        |
| 34. Harry Allen Solar (aka Dry Lake Solar) at Harry Allen            | NVE                        |
| 35. Techren Solar Interconnection                                    | NVE                        |
| 36. Arrow Canyon Solar                                               | NVE                        |
| 37. Southern Big Horn Solar (Formally Eagle Shadow Mountain Solar)   | NVE                        |



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|                                                                    |            |
|--------------------------------------------------------------------|------------|
| 38. Gemini Solar 1 and 2                                           | NVE        |
| 39. Boulder Solar III                                              | NVE        |
| 40. Chuckwalla Solar Project                                       | NVE        |
| 41. Greenlink Nevada West (GLW)                                    | NVE        |
| 42. Greenlink Nevada North (GLN)                                   | NVE        |
| 43. Aeolus – Shirley Basin #2 230 kV                               | PacifiCorp |
| 44. Wilson 115 kV Area Reinforcement                               | PG&E       |
| 45. Cottonwood 230/115 kV Bank 1 and 4 Replacement Project         | PG&E       |
| 46. Moraga 230 kV Bus Upgrade                                      | PG&E       |
| 47. East Shore 230 kV Bus terminals Reconfiguration                | PG&E       |
| 48. Newark 230/115 kV Transformer Bank #7 Circuit Breaker Addition | PG&E       |
| 49. Gold Hill 230/115 kV Transformer Addition Project              | PG&E       |
| 50. Moss Landing 500/230 kV Bank 9 Replacement                     | PG&E       |
| 51. Mcloud Wind                                                    | PG&E       |
| 52. Pittsburg Energy Storage                                       | PG&E       |
| 53. Kola                                                           | PG&E       |
| 54. Sandrini Sol 2                                                 | PG&E       |
| 55. Horizon-Keeler BPA #2 230 kV Project                           | PGE        |
| 56. San Juan 345 kV Station Expansion                              | PNM        |
| 57. San Juan 345 kV Generation Interconnection                     | PNM        |
| 58. 345 kV Generation Interconnection Station                      | PNM        |
| 59. Roundhouse Renewable Energy Project (RREP)                     | PRPA       |
| 60. Cheyenne Ridge                                                 | PSCo       |
| 61. Bronco Plains                                                  | PSCo       |
| 62. Thunderwolf                                                    | PSCo       |
| 63. Neptune                                                        | PSCo       |
| 64. Sun Mountain                                                   | PSCo       |
| 65. Hurley – Natomas 230 kV line Rating Increasing Project         | SMUD       |

**2021 List of Projects Denied a Waiver of “Significant Impact” Status**

| <b><u>Project Name</u></b>                             | <b><u>Organization</u></b> |
|--------------------------------------------------------|----------------------------|
| 1. Gates 500 kV Dynamic Reactive Support               | LSPower_CA                 |
| 2. Round Mountain 500 kV area Dynamic Reactive Support | LSPower_CA                 |





**2020 List of Projects Granted a Waiver of “Significant Impact” Status**

| <b><u>Project Name</u></b>                                      | <b><u>Organization</u></b> |
|-----------------------------------------------------------------|----------------------------|
| 1. Freedom 230/69 kV Substation                                 | APS                        |
| 2. Runway 230 kV Lines                                          | APS                        |
| 3. Stratus 230 kV Lines                                         | APS                        |
| 4. Three Rivers 230 kV lines                                    | APS                        |
| 5. Contrail 230 kV lines                                        | APS                        |
| 6. TS2 230 kV Lines                                             | APS                        |
| 7. Broadway 230 kV Lines                                        | APS                        |
| 8. TS 17 230 kV Lines                                           | APS                        |
| 9. Saddle Mountain Project                                      | AVA                        |
| 10. Raver 500/230 kV Transformer Addition                       | BPA                        |
| 11. Longview Area 230/115 kV Transformer Addition               | BPA                        |
| 12. Empire Solar                                                | EPE                        |
| 13. Gamebird 230/138 kV Substation                              | GLW                        |
| 14. Midpoint T231 230/138 kV Transformer Replacement            | IPC                        |
| 15. Hines T131 138/115/ kV Transformer Replacement              | IPC                        |
| 16. Cloverdale T231 230/138 kV Transformer Replacement          | IPC                        |
| 17. Boise bench – Cloverdale 230 kV Transmission Line           | IPC                        |
| 18. Cloverdale – Locust 230 kV Transmission Line                | IPC                        |
| 19. Beacon Light 138 kV Transmission Line                       | IPC                        |
| 20. Can-Ada – Blackcat 138 kV Transmission Line                 | IPC                        |
| 21. Cloverdale – Hubbard 230 kV Transmission Line               | IPC                        |
| 22. Wood River – Ketchum 138 kV Transmission Line               | IPC                        |
| 23. Orchard 138 kV Conversion Project                           | IPC                        |
| 24. Jackpot Solar Interconnection Project                       | IPC                        |
| 25. RS-J (Northridge) 230 kV CB & DiscSw Upgrades               | LADWP                      |
| 26. RS-B Voltage Upgrade to 300 kV                              | LADWP                      |
| 27. Mead Substation Voltage Upgrade 300 kV                      | LADWP                      |
| 28. Victorville Bank K Upgrade                                  | LADWP                      |
| 29. RS-E 230 kV Reactor Installation                            | LADWP                      |
| 30. Scattergood – Airport Line 1 138 kV                         | LADWP                      |
| 31. Valley – Toluca 230 kV line 1 and 2 Reconductoring          | LADWP                      |
| 32. Haskell – Sylmar 230 kV line 2 Construction                 | LADWP                      |
| 33. Rinaldi RS 230 kV CB & Disc Sw Upgrades                     | LADWP                      |
| 34. Marketplace 500 kV Reactor New Installation                 | LADWP                      |
| 35. Pershing – Olympic 230 kV Cable B Construction              | LADWP                      |
| 36. Scattergood – Pershing Olympic 230 kV Cable B               | LADWP                      |
| 37. Tarzana – Olympic 1A and 1B (Convert from 138 kV to 230 kV) | LADWP                      |



|                                                                  |       |
|------------------------------------------------------------------|-------|
| 38. Toluca – Hollywood Underground Line 1 Replacement            | LADWP |
| 39. Victorville Bank K upgrade                                   | LADWP |
| 40. Adelanto – Toluca 500 kV line 1 Rating Increase              | LADWP |
| 41. Adelanto – Rinaldi 500 kV line 1 Rating Increase             | LADWP |
| 42. Victorville – Rinaldi 500 kV line 1 Rating increase          | LADWP |
| 43. RS-B Banks F Replacement                                     | LADWP |
| 44. RS-K 138 kV -230 kV Bus Bank E and F Upgrades                | LADWP |
| 45. Eland 1 and 2                                                | LADWP |
| 46. Dodge Flat Solar Energy Center                               | NVE   |
| 47. Battle Mountain Solar and Storage                            | NVE   |
| 48. Keno Solar Farm (Eagle Shadow Maintain Solar Farm            | NVE   |
| 49. Fish Springs Ranch Solar                                     | NVE   |
| 50. Apex Solar                                                   | NVE   |
| 51. Copper Mountain Solar #5                                     | NVE   |
| 52. Harry Allen Solar at Harry Allen                             | NVE   |
| 53. Magnolia Second 230/138 kV Transformer                       | NVE   |
| 54. Techren Solar Interconnection                                | NVE   |
| 55. Arrow Canyon Solar                                           | NVE   |
| 56. Southern Big Horn Solar                                      | NVE   |
| 57. Gemini Solar 1 & 2                                           | NVE   |
| 58. Larson 138 kV substation                                     | NVE   |
| 59. Camp William 345/138 kV Transformer and 138 kV Yard Addition | PAC   |
| 60. Shortgrass – Cheyenne Ridge Transmission Project             | PSCO  |
| 61. Greenwood – Denver Terminal Transmission Project             | PSCO  |
| 62. Helvetia Substation Project                                  | PGE   |
| 63. Horizon VWR3 Project                                         | PGE   |
| 64. Kelley Point Reconfiguration Project                         | PGE   |
| 65. St Marys Battery Project                                     | PGE   |
| 66. Sherwood 230 kV Breaker Replacement Project                  | PGE   |
| 67. Sunset Breaker Replacement Project                           | PGE   |
| 68. Butler Substation Project                                    | PGE   |
| 69. Murrayhill – St Marys 230 kV Reconductor Project             | PGE   |
| 70. Canyon – Urban 115 kV Reconductor Project                    | PGE   |
| 71. Century Substation Project                                   | PGE   |
| 72. Arrowhead Substation Project                                 | PGE   |
| 73. Hillsboro Reliability Project                                | PGE   |
| 74. Tonquin Substation Project                                   | PGE   |
| 75. Mt Pleasant Substation Project                               | PGE   |
| 76. Harborton Reliability Project                                | PGE   |
| 77. SE Portland Conversion Project                               | PGE   |

|                                                                       |      |
|-----------------------------------------------------------------------|------|
| 78. Wheatridge Renewable Energy Facility                              | PGE  |
| 79. Pit PH #1 add 230/69 kV Bank 5                                    | PG&E |
| 80. Moss Landing 500 kV upgrade                                       | PG&E |
| 81. Northern Fresno 115 kV Area Reinforcement                         | PG&E |
| 82. Martin 230/115 kV Transformer No. 7 Replacement                   | PG&E |
| 83. Vaca Dixon – Lakeville 230 kV Corridor Series Compensation        | PG&E |
| 84. Ravenswood 230/115 kV Transformer No. 1 Limiting Facility Upgrade | PG&E |
| 85. Jefferson 230 kV Bus Upgrade                                      | PG&E |
| 86. Oakland Clean Energy Initiative                                   | PG&E |
| 87. Midway 230 kV Bus Section D Upgrade Project                       | PG&E |
| 88. Tesla 230 kV Bus Series Reactor                                   | PG&E |
| 89. Black Diamond energy Storage Generation Interconnection           | PG&E |
| 90. Dallas Energy Storage                                             | PG&E |
| 91. Roundhouse Renewable Energy Project                               | PRPA |
| 92. Red Hawk 230 kV                                                   | SRP  |
| 93. Price Road Corridor 230 kV                                        | SRP  |
| 94. Wright Solar Park                                                 | WSP  |

## 2019 List of Projects Granted a Waiver of “Significant Impact” Status

| <u>Project Name</u>                                                              | <u>Organization</u> |
|----------------------------------------------------------------------------------|---------------------|
| 1. West Rapid City 230/69 kV substation                                          | BHP                 |
| 2. Yellow Creek Transformer Addition                                             | BHP                 |
| 3. South Rapid City – West Rapid City – Lange 230 kV line Rebuild                | BHP                 |
| 4. Lange – Lookout -Wyodak 230 kV line Rebuild                                   | BHP                 |
| 5. Can-Aba – Blackcat 138 kV Transmission line                                   | IPC                 |
| 6. Valley – Rinaldi 230 kV lines 1 and 2 Reconductoring                          | LADWP               |
| 7. New Castaic – Haskell 230 kV line #3                                          | LADWP               |
| 8. Valley – Toluca 230 kV line 1 and 2 Reconductoring                            | LADWP               |
| 9. Lugo – Victorville 500 kV line 1 upgrades                                     | LADWP               |
| 10. Rinaldi – Tarzana 230 kV line 1 and 2 Reconductoring                         | LADWP               |
| 11. Convert PP1 & PP2 – Olive 115k V lines to Haskell Cny – Sylmar 230 kV line 2 | LADWP               |
| 12. Barren Ridge – Kaskell Canyon 230 kV line 1                                  | LADWP               |
| 13. Upgrade Victorville 500/287 kV Transformer Bank K                            | LADWP               |
| 14. Upgrade Toluca 500/230 kV Transformer Bank H                                 | LADWP               |
| 15. Beacon Battery Energy Storage                                                | LADWP               |
| 16. Spring Bok III                                                               | LADWP               |
| 17. New Rosamond Switching 230 kV Station                                        | LADWP               |
| 18. New Receiving Station X Switching 230 kV Station                             | LADWP               |
| 19. Malin 230 kV Breaker Addition                                                | PAC                 |
| 20. Sams Valley 500-230 kV substation                                            | PAC                 |
| 21. Lone Pine – Whetstone 230 kV line                                            | PAC                 |
| 22. Spanish Fork 345/138 kV Transformer #3 Upgrade                               | PAC                 |
| 23. Camp Williams – Oquirrh 345 kV line Upgrade                                  | PAC                 |
| 24. Jim Bridger 345/230 kV Transformer #2 Upgrade                                | PAC                 |
| 25. 90 <sup>th</sup> South Terminal 345 kV Line Loop into Midvalley Substation   | PAC                 |
| 26. Harborton Project                                                            | PGE                 |
| 27. Hillsboro Project                                                            | PGE                 |
| 28. Aquamarine Westside Solar                                                    | PG&E                |
| 29. Proxima Solar                                                                | PG&E                |
| 30. Skookumchuck Wind Generation Project                                         | PSE                 |
| 31. Dodge Flat Solar Energy Center                                               | NVE                 |
| 32. Pershing Solar Project                                                       | NVE                 |
| 33. McDonald Transformer Addition                                                | NVE                 |
| 34. Mc Donald – Arden 230 kV line Reconductoring                                 | NVE                 |
| 35. NSO 230 kV Switchyard Interconnection by Techren                             | NVE                 |



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|                                     |      |
|-------------------------------------|------|
| 36. Apex Solar                      | NVE  |
| 37. Keno Solar Farm                 | NVE  |
| 38. Copper Mountain Solar #5        | NVE  |
| 39. Rancho Seco II Solar PV Project | SMUD |
| 40. Southeast Power Link            | SRP  |
| 41. Gateway Project                 | TSGT |
| 42. Arnold Project                  | TSGT |

**2018 List of Projects Granted a Waiver of “Significant Impact” Status**

| <u>Project Name</u>                                            | <u>Organization</u> |
|----------------------------------------------------------------|---------------------|
| 1. West Hill – Stegall 230 kV Line Rebuild                     | BHP                 |
| 2. West Hill – South Rapid City 230 kV Line Rebuild            | BHP                 |
| 3. Bob - Eldorado and Bob – Mead 230 kV Line                   | GWT                 |
| 4. Can – Ada – Blackcat 138kV Transmission Line Project        | IPC                 |
| 5. Upgrade Circuit Ratings: Haskell-Olive 230 kV line          | LADWP               |
| 6. New Haskell – Sylmar 230 kV Line 2                          | LADWP               |
| 7. Apex – Crystal Transmission Line                            | LADWP               |
| 8. Scattergood – Olympic Cable B                               | LADWP               |
| 9. New Rosamond Station                                        | LADWP               |
| 10. Receiving Station X                                        | LADWP               |
| 11. Lyons Substation                                           | MEID                |
| 12. Install Goshen 345/161 kV #3 Transformer                   | PAC                 |
| 13. Replace Outlook 230/115 kV Transformer                     | PAC                 |
| 14. Blue Lake Phase 2 Project                                  | PGE                 |
| 15. Sobrante Bank 1 Replacement                                | PG&E                |
| 16. Oro Loma 70 kV Area Reinforcement (Westside Power Connect) | PG&E                |
| 17. Coburn Banks 1 and 2 Replacement                           | PG&E                |
| 18. Gates 500 kV Bank 11 Replacement                           | PG&E                |
| 19. Rio Oso 230 kV BAAH Bus upgrade                            | PG&E                |
| 20. Bakersfield Nos 1 and 2 230 kV Tap Lines Reconductoring    | PG&E                |
| 21. Northern Fresno 115 kV Area Reinforcement                  | PG&E                |
| 22. Wilson 115 kV area Reinforcement                           | PG&E                |
| 23. Helm 230/70 kV Bank 1 Replacement                          | PG&E                |
| 24. Cottonwood – Red Bluff 60 kV line Reconductor              | PG&E                |
| 25. Fifth Standard Solar Generation Interconnection            | PG&E                |
| 26. Mustang 2 Generation Interconnection Project               | PG&E                |
| 27. Northern Orchard Solar Generation Interconnection          | PG&E                |
| 28. Blackwater Synchronous Condenser                           | PNM                 |
| 29. Albuquerque – Clines Corners 345 kV Line                   | PNM                 |
| 30. Rush Creek Transmission Project                            | PSCO                |
| 31. Pierce County Transformer Addition and Line Reroutes       | PSE                 |
| 32. Eastside 230 kV Transformer Addition and Line              | PSE                 |
| 33. West Kitsap Transmission Project Phase II                  | PSE                 |
| 34. RE Scarlet                                                 | REnergy             |
| 35. RE Slate                                                   | REnergy             |

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|                                              |                  |
|----------------------------------------------|------------------|
| 36. Tranquillity 8                           | Sempra           |
| 37. Hurley Jumper Replacement Project        | SMUD             |
| 38. Franklin 230 kV Substation               | SMUD             |
| 39. Hurley – Procter 230 kV line Reconductor | SMUD             |
| 40. Shunt Capacitor at Orangevale Substation | SMUD             |
| 41. Shunt Capacitor at Carmichael Substation | SMUD             |
| 42. Hurley 230 kV bus-tie breaker            | SMUD             |
| 43. Cosumnes Power Plant CT2 and CT3 Upgrade | SMUD             |
| 44. Antelope Expansion 2                     | SPower           |
| 45. Southeast Wyoming Transmission Project   | TSGT             |
| 46. Voyager Wind 2                           | Utility Services |

**2017 List of Projects Granted a Waiver of “Significant Impact” Status**

| <u>Project Name</u>                                               | <u>Organization</u> |
|-------------------------------------------------------------------|---------------------|
| 1.Sagebrush 230 kV substation                                     | BHP                 |
| 2.Raver 500/230 kV Transformer Addition Project                   | BPA                 |
| 3.McNary 500/230 kV transformer Addition Project                  | BPA                 |
| 4.Longview Area 230/115 kV Transformer Addition                   | BPA                 |
| 5.Front Range Power Plant to Nixon-Kelker (NX-KE) Line #2         | CSU                 |
| 6.Midpoint T232 230/138 kV Transformer Replacement Project        | IPC                 |
| 7.Borah-Populus 345kV Ckt #1 Series Capacitor Replacement Project | IPC                 |
| 8.Kinport-Populus 345kV Series Capacitor Replacement Project      | IPC                 |
| 9.Cloverdale 230/138kV Transformer Project                        | IPC                 |
| 10. Cloverdale – Hubbard 230kV Transmission Line Project          | IPC                 |
| 11. King-Wood River 138kV Transmission Line Rebuild               | IPC                 |
| 12. Willis-Lansing-Star 138kV Transmission Line Project           | IPC                 |
| 13. Boulder Solar Interconnection Facility                        | NVE                 |
| 14. Goshen Spare 345/161 kV Transformer                           | PAC                 |
| 15. Convers County, WY                                            | PAC                 |
| 16. Klamath, OR                                                   | PAC                 |
| 17. Bellota 230 kV Substation Shunt Reactor                       | PG&E                |
| 18. Delevan 230 kV Substation Shunt Reactor                       | PG&E                |
| 19. Los Esteros 230 kV Substation Shunt Reactor                   | PG&E                |
| 20. Ignacio 230 kV Substation Shunt Reactor                       | PG&E                |
| 21. Ignacio 230 kV Substation Shunt Reactor                       | PG&E                |
| 22. Cabezon 345 kV station                                        | PNM                 |
| 23. Clines Corners 345 kV station                                 | PNM                 |
| 24. Guadalupe SVC                                                 | PNM                 |
| 25. Copper Crossing – Abel 230 kV                                 | SRP                 |



**2016 List of Projects Granted a Waiver of “Significant Impact” Status**

| <b><u>Project Name</u></b>                                                       | <b><u>Organization</u></b> |       |
|----------------------------------------------------------------------------------|----------------------------|-------|
| 1. Raver 500/230 kV Transformer Addition Project                                 | BPA                        |       |
| 2. McNary 500/230 kV Transformer Addition Project                                | BPA                        |       |
| 3. Longview Area 230/115 kV Transformer Addition                                 | BPA                        |       |
| 4. Warnerville Substation Upgrade                                                | HHWP                       |       |
| 5. Midpoint T232 230/138 kV Transformer Addition Project                         | IPC                        |       |
| 6. Upgrade Terminal Equipment on Northridge-Tarzana 230kV                        | LADWP                      |       |
| 7. Reconductor Haskell Canyon Rinaldi 230 kV line 1                              | LADWP                      |       |
| 8. New Barren Ridge – Haskell Canyon 230 kV lines 2 and 3                        | LADWP                      |       |
| 9. New Scattergood-Olympic 230 kV Cable A                                        | LADWP                      |       |
| 10. Reconductor Barren Ridge – Haskell Canyon 230 kV line 1                      | LADWP                      |       |
| 11. New Castaic – Haskell Canyon 230 kV line 3                                   | LADWP                      |       |
| 12. Reconductor both Valley-Rinaldi 230 kV lines                                 | LADWP                      |       |
| 13. Reconductor Valley -Toluca 230 kV line 1 and 2                               | LADWP                      |       |
| 14. Reconductor Both Rinaldi – Tarzana 230 kV lines                              | LADWP                      |       |
| 15. Convert PP1 &PP2 – Olvie 115 kV lines to Haskell Canyon-sylmar 230 kV line 2 | LADWP                      | LADWP |
| 16. Add second Victorville 500/287 kV Transformer Bank                           | LADWP                      |       |
| 17. Replace Toluca 500/230 kV Bank H                                             | LADWP                      |       |
| 18. Beacon Solar 250 MW                                                          | LADWP                      |       |
| 19. Copper Mountain Solar 3 210 MW                                               | LADWP                      |       |
| 20. Moapa K-Road Solar 250 MW                                                    | LADWP                      |       |
| 21. Recinco Solar 60 MW                                                          | LADWP                      |       |
| 22. Spring Bok 1, 2 and 3 340 MW                                                 | LADWP                      |       |
| 23. Harry Allen 500/230 kV Transformer                                           | NVE                        |       |
| 24. Syracuse 2 <sup>nd</sup> 345/138 kV 700 MVA Transformer                      | PAC                        |       |
| 25. Replae Red Butte Transformer                                                 | PAC                        |       |
| 26. Spanish Fork 345 kV Substation Circuit Breaker Additions                     | PAC                        |       |
| 27. Project 335 Wind Plant 80 MW                                                 | PAC                        |       |
| 28. Project 226 Wind Plant 151.2 MW                                              | PAC                        |       |
| 29. Project 276 Wind Plant 98.9 MW                                               | PAC                        |       |
| 30. Project 721 Solar Plant 55 MW                                                | PAC                        |       |
| 31. Martin 230 kV Bus Extension                                                  | PG&E                       |       |



| <b><u>Project Name</u></b>                               | <b><u>Organization</u></b> |
|----------------------------------------------------------|----------------------------|
| 32. Eight Mile – Lodi Re-conducting Economic Project     | PG&E                       |
| 33. Blue Lake/Gresham 230 kV project                     | PGE                        |
| 34. Horizon Phase II project                             | PGE                        |
| 35. Harborton Reliability Project                        | PGE                        |
| 36. Carty Generation Station                             | PGE                        |
| 37. Laporte 230 kV substation Expansion                  | PRPA                       |
| 38. Boy 230/115 kV Transformer Addition Project          | PRPA                       |
| 39. Northern Greeley Transmission                        | PSCo                       |
| 40. Southern Greeley Transmission                        | PSCo                       |
| 41. Pierce County Transformer Addition and Line Reroutes | PSE                        |
| 42. Eastside 230 kV Transformer Addition and Line        | PSE                        |
| 43. West Kitsap Transmission Project Phase II            | PSE                        |
| 44. Torreon 345/115 kV Substation Project                | TSGT                       |

**2015 List of Projects Granted a Waiver of “Significant Impact” Status**

| <b><u>Project Name</u></b>                                                | <b><u>Project Sponsor</u></b> |
|---------------------------------------------------------------------------|-------------------------------|
| 1. Hassayampa-N.Gila #2 (aka HANG2) 500 kV Project (2015)                 | APS                           |
| 2. Palm Valley-Trilby Wash 230 kV Project (2015)                          | APS                           |
| 3. Sun Valley-Trilby Wash 230 kV Project (2016)                           | APS                           |
| 4. Palo Verde-Delaney 500 kV Project (2016)                               | APS                           |
| 5. Delaney-Sun Valley 500 kV Project (2016)                               | APS                           |
| 6. Ocotillo Modernization Project (2017)                                  | APS                           |
| 7. Mazatzal 345/69 kV Substation (2017)                                   | APS                           |
| 8. Sun Valley-Morgan 500 kV Project (2018)                                | APS                           |
| 9. N.Gila-Orchard 230 kV Project (2018)                                   | APS                           |
| 10. Sun Valley-Morgan 230 kV Project (2026)                               | APS                           |
| 11. Scatter Wash 230/69 kV Substation (TBD)                               | APS                           |
| 12. Bill Durfee (Sundance) 230 kV Substation                              | BHP                           |
| 13. Raver 500/230 kV Transformer Addition Project                         | BPA                           |
| 14. McNary 500/230 kV Transformer Addition Project                        | BPA                           |
| 15. Second 230kV line from Front Range Plant to Nixon-Kelker (NX-KE) Line | CSU                           |
| 16. Midpoint T232 230/138 kV Transformer Addition Project                 | IPC                           |
| 17. Midpoint West Upgrade Project                                         | IPC                           |
| 18. Wallula – McNary 230 kV Line                                          | PAC                           |
| 19. Planned Generation Interconnection Projects (PACE)                    | PAC                           |
| 20. Table 8b: Planned Generation Interconnection Projects (PACW)          | PAC                           |
| 21. Los Banos-4C779 #1 230kV Line Reconductoring Project                  | PG&E                          |
| 22. Gregg-Herndon #2 230 kV Line Circuit Breaker                          | PG&E                          |
| 23. Bellota – Warnerville 230 kV Line Reconductoring                      | PG&E                          |
| 24. Glenn 230/60 kV Transformer No. 1 Replacement                         | PG&E                          |
| 25. Monta Vista 230 kV Bus Upgrade                                        | PG&E                          |
| 26. Midway-Kern PP 230 kV #2 Line Project                                 | PG&E                          |
| 27. Estrella Substation                                                   | PG&E                          |
| 28. Midway Fault Duty Mitigation Project                                  | PG&E                          |
| 29. Wheeler Ridge Junction Substation                                     | PG&E                          |
| 30. Morgan Hill Area Reinforcement Project                                | PG&E                          |
| 31. Q779                                                                  | PG&E                          |
| 32. Q829                                                                  | PG&E                          |



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|                                                                    |      |
|--------------------------------------------------------------------|------|
| 33. Q643X                                                          | PG&E |
| 34. Q877                                                           | PG&E |
| 35. Q258                                                           | PG&E |
| 36. Blue Lake/Gresham 230 kV Project                               | PGE  |
| 37. Horizon Phase II Project                                       | PGE  |
| 38. Port Westward II generation                                    | PGE  |
| 39. Tucannon River Wind Farm                                       | PGE  |
| 40. Laporte 230 kV Substation Expansion                            | PRPA |
| 41. Boyd 230/115kV Transformer Addition Project                    | PRPA |
| 42. Miguel Synchronous Condenser                                   | SDGE |
| 43. Phase Shifting Transformer (PST) at Imperial Valley            | SDGE |
| 44. SVC at Suncrest Substation                                     | SDGE |
| 45. Browning - Rogers 230kV line                                   | SRP  |
| 46. Hassayampa – Pinal West 500kV line loop into Jojoba Substation | SRP  |
| 47. Price Road Corridor Project                                    | SRP  |
| 48. Eastern Mining Expansion Project                               | SRP  |
| 49. Santan – Rogers 230kV line Reconfiguration                     | SRP  |
| 50. Browning – Corbell 230kV line Reconfiguration                  | SRP  |
| 51. Abel – Pfister - Ball 230kV line                               | SRP  |
| 52. Hassayampa – Pinal West #2 500kV line                          | SRP  |
| 53. Southwest Weld Expansion Project                               | TSGT |

**2014 List of Projects Granted a Waiver of “Significant Transmission Project” Status**

| <b><u>Project Name</u></b>                                               | <b><u>Organization</u></b> |
|--------------------------------------------------------------------------|----------------------------|
| 1. Palm Valley – Trilby Wash 230 kV Project                              | APS                        |
| 2. Sun Valley-Trilby Wash 230 kV Project                                 | APS                        |
| 3. Palo Verde-Delaney 500 kV Project                                     | APS                        |
| 4. Delaney-Sun Valley 500 kV Project                                     | APS                        |
| 5. Mazatzal 345/69 kV Substation                                         | APS                        |
| 6. Sun Valley-Morgan 500 kV Project                                      | APS                        |
| 7. N.Gila-Orchard (previously called TS8) 230 kV Project                 | APS                        |
| 8. Scatter Wash 230/69 kV Substation                                     | APS                        |
| 9. Sun Valley-Morgan 230 kV Project                                      | APS                        |
| 10. Bill Durfee (Sundance) 230 kV Substation                             | BHP                        |
| 11. Raver 500/230 kV Transformer Addition Project                        | BPA                        |
| 12. Front Range Power Plant to Nixon-Kelker (NX-KE) Line #2              | CSU                        |
| 13. Midpoint T232 230/138 kV Transformer Addition Project                | IPC                        |
| 14. Midpoint West Upgrade Project                                        | IPC                        |
| 15. Casper Substation-Install 230/115 MVA transformer                    | PAC                        |
| 16. Mid Valley Substation-Replace 345-138kV, 450 MVA with 700 MVA        |                            |
| 17. Transformers                                                         | PAC                        |
| 18. St. George Substation- Install 345kV/138kV transformer & expand yard | PAC                        |
| 19. Snow Goose 500/230kV substation                                      | PAC                        |
| 20. Syracuse –Install 345/138 kV #2 Transformer                          | PAC                        |
| 21. Table Mountain 500/230kV substation                                  | PAC                        |
| 22. Troutdale Substation, Add 3- 230 kV circuit breakers                 | PAC                        |
| 23. Union Gap 230/115 kV Transformer Addition                            | PAC                        |
| 24. Vantage –Pomona Heights 230 kV line                                  | PAC                        |
| 25. Whetstone 230/115kV Substation                                       | PAC                        |
| 26. Planned Generation Waiver                                            | PAC                        |
| 27. Contra Costa sub 230kV Switch Replacement                            | PG&E                       |
| 28. Gates No. 2 500/230 kV Transformer                                   | PG&E                       |
| 29. Kearney-Herndon 230 kV Line Reconductor                              | PG&E                       |
| 30. Warnerville-Wilson 230 kV Series Reactor                             | PG&E                       |
| 31. Diablo Canyon Voltage Support Project                                | PG&E                       |
| 32. Lockeford-Lodi Area 230 kV Development                               | PG&E                       |



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|                                                   |      |
|---------------------------------------------------|------|
| 33. Midway-Andrew 230 kV                          | PG&E |
| 34. Moraga-Potrero 230 kV Project                 | PG&E |
| 35. Solar Star Generation Interconnection Project | PG&E |
| 36. Stockton Generation Expansion Project         | PG&E |
| 37. Blue Lake/Gresham 230 kV Project              | PGE  |
| 38. Horizon Phase II Project                      | PGE  |
| 39. Port Westward II generation                   | PGE  |
| 40. Laporte 230 kV Substation Expansion           | PRPA |
| 41. Boyd 230/115kV Transformer Addition Project   | PRPA |
| 42. Eastside 230 kV Transformer Addition and Line | PSE  |
| 43. Sycamore-Penasquitos 230 kV Line Project      | SDGE |
| 44. Artesian 230 kV Expansion                     | SDGE |
| 45. New 230/69 kV Transformer at Mission          | SDGE |
| 46. Talega Synchronous Condenser                  | SDGE |
| 47. SONGSMESA Synchronous Condenser               | SDGE |
| 48. San Luis Rey Synchronous Condenser            | SDGE |
| 49. Shunt Reactor at Suncrest                     | SDGE |
| 50. Desert Basin – Pinal Central 230kV line       | SRP  |
| 51. Price Road Corridor Project                   | SRP  |
| 52. Rogers – Santan 230kV line                    | SRP  |
| 53. Silver King – RS-29 230kV Project             | SRP  |
| 54. New Superior – New Oak Flat 230kV line        | SRP  |
| 55. New Oak Flat – Silver King 230kV line         | SRP  |
| 56. Abel – Pfister - Ball 230kV line              | SRP  |
| 57. Burlington-Lamar 345/230 kV Project           | TSGT |
| 58. JM Schafer-Henry Lake 230 kV Project          | TSGT |



**2013 List of Projects Granted a Waiver of “Significant Transmission Project” Status**

| <b><u>Project Name</u></b>                                                     | <b><u>Organization</u></b> |
|--------------------------------------------------------------------------------|----------------------------|
| 1. Eastside 230 kV Transformer Addition and Line                               | PSEI                       |
| 2. Starwood-Tideflats 115/110 kV Transformer Removal                           | PSEI                       |
| 3. SVP Phase Shifting Transformer Project (SVP-PST)                            | SVP                        |
| 4. St. Onge 230 kV Substation                                                  | BHP                        |
| 5. Sundance 230 kV Substation                                                  | BHP                        |
| 6. El Centenario 230 kV Substation                                             | CFE                        |
| 7. San Luis Rey 230 kV Substation                                              | CFE                        |
| 8. Transmission Line ROA – CPD 230 kV                                          | CFE                        |
| 9. Clover Substation - Add 345/138 kV transformer                              | PAC                        |
| 10. Terminal 345/138 kV #1 & #2 Transformer Upgrade                            | PAC                        |
| 11. Copco Substation Increase                                                  | PAC                        |
| 12. Ben Lomond 345/138 kV #2 transformer 450 MVA                               | PAC                        |
| 13. Carbon County System Upgrade                                               | PAC                        |
| 14. Line 3 Conversion Project                                                  | PAC                        |
| 15. Union Gap 230/115 kV increase in capacity, add a third 250 MVA transformer | PAC                        |
| 16. Whetstone 230/115 kV Substation                                            | PAC                        |
| 17. Red Butte/ St. George Double Circuit Line and 345/138 kV Transformer       | PAC                        |
| 18. Syracuse 345/138 kV #2 Transformer                                         | PAC                        |
| 19. Midvalley 345/138 kV #1 & #2 transformer replacement 700 MVA               | PAC                        |
| 20. Yellowtail 230/138 kV #2 transformer                                       | PAC                        |
| 21. Fry Substation, install 115 kV capacitors                                  | PAC                        |
| 22. Troutdale Substation, 230 kV switchyard addition                           | PAC                        |
| 23. Planned Generation Interconnection Projects – 68 Projects in APR           | PAC                        |
| 24. Midpoint T232 230/138 kV Transformer Replacement Project                   | IPC                        |
| 25. Imperial Valley Substation to Dixieland Substation 230 kV Line Project IID |                            |
| 26. North Dublin 230kV Shunt Reactor                                           | PG&E                       |
| 27. Contra Costa – Moraga SPS Installation                                     | PG&E                       |
| 28. Arco Transformer Installation Project                                      | PG&E                       |
| 29. Midway – Kern PP 230 kV Line 1,3, and 4 Capacity Increase                  | PG&E                       |
| 30. Tulucay 230/60 kV Transformer No. 1 Capacity Increase                      | PG&E                       |
| 31. Moraga – Castro Valley 230 kV Line Capacity Increase                       | PG&E                       |
| 32. Kearney 230/70 kV Transformer 2                                            | PG&E                       |





|                                                   |       |
|---------------------------------------------------|-------|
| 33. Fulton 230/115 kV Transformer                 | PG&E  |
| 34. Moraga Transformer Capacity Increase          | PG&E  |
| 35. Rio Oso – Atlantic 230 kV Line                | PG&E  |
| 36. San Mateo Synchronous Condenser Replacement   | PG&E  |
| 37. Wheeler Ridge Voltage Support                 | PG&E  |
| 38. Rio Oso Area 230 kV Voltage Support           | PG&E  |
| 39. Kern PP 230 kV Area Reinforcement Project     | PG&E  |
| 40. Borden 230 kV Voltage Support                 | PG&E  |
| 41. Blue Lake – Gresham 230 kV                    | PGE   |
| 42. Pearl – Sherwood 230 kV                       | PGE   |
| 43. Expansion of the Rio Puerco 345 kV Station    | PNM   |
| 44. Raver 500/230 kV Transformer Addition Project | BPA   |
| 45. Southwest 230 kV Ring Bus Conversion          | TPWR  |
| 46. Desert Basin – Pinal Central 230 kV Line      | SRP   |
| 47. Eastern Mining Area Expansion Project         | SRP   |
| 48. Price Road Corridor Project                   | SRP   |
| 49. Rogers – Santan 230kV line                    | SRP   |
| 50. New Superior – New Oak Flat 230kV line        | SRP   |
| 51. New Oak Flat – Silver King 230kV line         | SRP   |
| 52. New Abel – Pfister - Ball 230kV line          | SRP   |
| 53. Silver King – New Pinto Valley 230kV line     | SRP   |
| 54. Shunt Capacitor Banks at Penasquitos 230      | SDG&E |
| 55. Ocotillo Express Interconnection Project      | SDG&E |
| 56. Boone – Walsenburg 230 kV Line                | TSGT  |
| 57. San Juan Basin Energy Connect Project         | TSGT  |
| 58. San Luis Valley – Carson 230 kV Line          | TSGT  |
| 59. Western Colorado Transmission Upgrade Project | TSGT  |
| 60. Reconductor Delridge-Duwamish 230 kV line     | SCL   |
| 61. Reconductor Bothell – SnoKing 230 kV lines    | SCL   |
| 62. Tres Amigas Super Station                     | TASS  |



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