

**Summary of ISO Capital Expenditure Forecast - Incentive Projects**  
(\$000)

|  |  |           | High/ Low |        | Project Total (ISO & non-ISO) |       |       |       | ISO Portion |       |       |       |
|--|--|-----------|-----------|--------|-------------------------------|-------|-------|-------|-------------|-------|-------|-------|
| PIN  | Project Title  | Order #   | Voltage   | OD     | Prior                         | 2018  | 2019  | Total | Prior       | 2018  | 2019  | Total |
| Incentive Transmission Projects includes only Direct Installation Expenditures |  |           |           |        |                               |       |       |       |             |       |       |       |
| Various Tehachapi - Segments 3B & 3C   |  |           |           |        |                               |       |       |       |             |       |       |       |
| 07183  | 230 kV Transmission Line Between Highwind and Windhub Substations  | 800062547 | High      | Dec-12 | -                             | 10    | -     | 10    | -           | 10    | -     | 10    |
| 07183  | Total Segment 3B   |           |           |        | -                             | 10    | -     | 10    | -           | 10    | -     | 10    |
| Total Tehachapi Segments 3B & 3C   |  |           |           |        | -                             | 10    | -     | 10    | -           | 10    | -     | 10    |
| Total Tehachapi Segments 1-3 - Incentive Qualified                             |  |           |           |        | -                             | 10    | -     | 10    | -           | 10    | -     | 10    |
| Various Tehachapi - Segments 4-11  |  |           |           |        |                               |       |       |       |             |       |       |       |
| 05472  | Antelope Vincent #2 500kV T/L  | 800217232 | High      | Oct-12 | -                             | 0.079 | -     | 0     | -           | 0     | -     | 0     |
| 05472  | Total Segment 5  |           |           |        | -                             | 0     | -     | 0     | -           | 0     | -     | 0     |
| 05243  | New Vincent-Duarte 500kV T/L   | 800217316 | High      | Aug-14 | -                             | 2,526 | -     | 2,526 | -           | 2,526 | -     | 2,526 |
| 05243  | Total Segment 6  |           |           |        | -                             | 2,526 | -     | 2,526 | -           | 2,526 | -     | 2,526 |
| 06438  | New Antelope-Mesa 500kV T/L  | 800218138 | High      | Feb-18 | -                             | 629   | -     | 629   | -           | 629   | -     | 629   |
| 06438  | Total Segment 7  |           |           |        | -                             | 629   | -     | 629   | -           | 629   | -     | 629   |
| 06439  | New 33 mile Vincent-Mira Loma 500kV T/L  | 800218645 | High      | Mar-16 | -                             | 399   | -     | 399   | -           | 399   | -     | 399   |
| 06439  | Total Segment 8  |           |           |        | -                             | 399   | -     | 399   | -           | 399   | -     | 399   |
| 07553  | Mira Loma-Vincent 500 kV T/L (UG): Civil & Cable Portion   | 900610533 | High      | Oct-16 | -                             | 255   | -     | 255   | -           | 255   | -     | 255   |
| 07553  | Mira Loma Substation   | 901094247 | High      | Dec-16 | -                             | 2     | -     | 2     | -           | 2     | -     | 2     |
| 07553  | Acquire Easements for TRTP Segment 8A  | 801025887 | High      | Oct-16 | -                             | 8     | -     | 8     | -           | 8     | -     | 8     |
| 07553  | TRTP-Segment 8A CHUG: Land/ Easements Acquisition/ Condemnation  | 801479004 | High      | Jun-18 | 148                           | 877   | -     | 1,026 | 148         | 877   | -     | 1,026 |
| 07553  | East Transition Station  | 901109252 | High      | Dec-16 | -                             | 395   | -     | 395   | -           | 395   | -     | 395   |
| 07553  | West Transition Station  | 901109253 | High      | Dec-16 | -                             | 395   | -     | 395   | -           | 395   | -     | 395   |
| 07553  | Chino Hills Related OH Line Work   | 901486465 | High      | Aug-16 | -                             | 0     | -     | 0     | -           | 0     | -     | 0     |
| 07553  | Total Segment 8A (TRTP 500 kV Underground)   |           |           |        | 148                           | 1,932 | -     | 2,081 | 148         | 1,932 | -     | 2,081 |
| 06440  | Mira Loma Sub - Equip 1 500kV LP   | 800218712 | High      | Apr-14 | -                             | 122   | -     | 122   | -           | 122   | -     | 122   |
| 06440  | Total Segment 9  |           |           |        | -                             | 122   | -     | 122   | -           | 122   | -     | 122   |
| 06442  | Mesa-Vincent #1 500kV T/L  | 800217339 | High      | May-15 | -                             | 833   | -     | 833   | -           | 833   | -     | 833   |
| 06442  | Eagle Rock-Pardee 230kV: Construct 2 miles of single-circuit T/L to terminate Eagle Rock-Pardee 230kV T/L into V | 800217381 | High      | Feb-15 | -                             | 24    | -     | 24    | -           | 24    | -     | 24    |
| 06442  | Total Segment 11   |           |           |        | -                             | 857   | -     | 857   | -           | 857   | -     | 857   |
| Total Tehachapi Segments 4-11 - Incentive Qualified                            |  |           |           |        | 148                           | 6,465 | -     | 6,613 | 148         | 6,465 | -     | 6,613 |
| Total Tehachapi - Segments 1-11 Incentive Qualified                            |  |           |           |        | 148                           | 6,475 | -     | 6,623 | 148         | 6,475 | -     | 6,623 |
| 07061 Colorado River Substation Expansion (CRSE)                               |  |           |           |        |                               |       |       |       |             |       |       |       |
| 07061  | Devers: Relays for Devers-Red Bluff 500kV N-2 Special Protection System (SPS)                                    | 900603420 | High      | May-15 | -                             | 3     | -     | 3     | -           | 3     | -     | 3     |
|  | Total CRSE   |           |           |        | -                             | 3     | -     | 3     | -           | 3     | -     | 3     |
| 07650 Whirlwind Substation Expansion Project (Whirlwind)                       |  |           |           |        |                               |       |       |       |             |       |       |       |
| 07650  | Whirlwind 3rd AA bank and SPS  | 901307713 | High      | Apr-17 | -                             | 23    | -     | 23    | -           | 23    | -     | 23    |
|  | Total Whirlwind  |           |           |        | -                             | 23    | -     | 23    | -           | 23    | -     | 23    |
| 06902 Calcite Substation (formerly Jasper; part of South of Kramer)            |  |           |           |        |                               |       |       |       |             |       |       |       |
| 06902  | Jasper: LGIA Engineer and construct a new interconnection facility   | 900295954 | High      | Dec-20 | 3,625                         | 200   | 1,595 | 5,420 | 3,625       | 200   | 1,595 | 5,420 |
|  | Total South of Kramer  |           |           |        | 3,625                         | 200   | 1,595 | 5,420 | 3,625       | 200   | 1,595 | 5,420 |

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| PIN          | Project Title  | Order #   | High/ Low | OD            | Project Total (ISO & non-ISO) |                |                |                | ISO Portion   |                |                |                |
|--------------|--|-----------|-----------|---------------|-------------------------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|
|              |  |           | Voltage   |               | Prior                         | 2018           | 2019           | Total          | Prior         | 2018           | 2019           | Total          |
| <b>06420</b> | <b>West of Devers</b>  |           |           |               |                               |                |                |                |               |                |                |                |
| 06420        | West of Devers Upgrade Project: Preliminary Engineering & Licensing  | 800062511 | High      | <b>May-21</b> | 52,908                        | 2              | -              | 52,910         | 52,908        | 2              | -              | 52,910         |
| 06420        | Devers Sub: Install 220kV CBs & DSs  | 901453922 | High      | <b>Dec-18</b> | 2,032                         | 428            | 1,000          | 3,459          | 2,032         | 428            | 1,000          | 3,459          |
| 06420        | El Casco Sub: Install 220kV Terminal Equipment   | 901453923 | High      | <b>Jun-18</b> | 1,900                         | 551            | 1,000          | 3,451          | 1,900         | 551            | 1,000          | 3,451          |
| 06420        | Etiwanda Sub: Install 220kV Relay Equipment  | 901453924 | High      | <b>Jun-18</b> | 147                           | 1              | -              | 148            | 147           | 1              | -              | 148            |
| 06420        | San Bernardino Sub: Install Disconnects  | 901453925 | High      | <b>Oct-19</b> | 2,977                         | 492            | 1,900          | 5,369          | 2,977         | 492            | 1,900          | 5,369          |
| 06420        | Rebuild Devers-El Casco & El Casco-San Bernardino 220 kV lines with 2B-1590 ACSR on double circuit towers  | 901460764 | High      | <b>May-21</b> | 18,378                        | 93,069         | 147,764        | 259,210        | 18,378        | 93,069         | 147,764        | 259,210        |
| 06420        | Vista Sub: Install Disconnects   | 901453926 | High      | <b>Dec-18</b> | 2,149                         | 419            | 1,000          | 3,568          | 2,149         | 419            | 1,000          | 3,568          |
| 06420        | Acquire Easements for West of Devers   | 801275175 | High      | <b>Dec-18</b> | 3,938                         | 9,067          | 475            | 13,480         | 3,938         | 9,067          | 475            | 13,480         |
| <b>06420</b> | <b>Total West of Devers</b>  |           |           |               | <b>84,429</b>                 | <b>104,028</b> | <b>153,139</b> | <b>341,596</b> | <b>84,429</b> | <b>104,028</b> | <b>153,139</b> | <b>341,596</b> |
| <b>06092</b> | <b>Alberhill System</b>  |           |           |               |                               |                |                |                |               |                |                |                |
| 06092        | Licensing Phase - Site Selection, PEA/Application Preparation, Environmental Surveys and CPUC Licensing Review.  | 800063633 | High      | <b>Jul-24</b> | 20,166                        | 2,524          | 11,513         | 34,202         | 10,486        | 1,312          | 5,987          | 17,785         |
| 06092        | Valley: Replace existing LFCB relay with SEL-311L relay on Valley 500kV position 7XS. Replace existing SEL-311C/RFL9745 relay with SEL-311L relay on Valley 115kV position 3S. | 800374409 | High      | <b>Jun-21</b> | 7                             | -              | 63             | 70             | 5             | -              | 44             | 48             |
| 06092        | Replace existing LFCB relay with SEL-311L relay on Serrano 500kV position 3E   | 800374410 | High      | <b>Jun-21</b> | 3                             | -              | 90             | 93             | 3             | -              | 90             | 93             |
| 06092        | Alberhill Real Properties Acquisition  | 800796373 | High      | <b>Jun-18</b> | 83                            | 0              | 1,304          | 1,387          | 40            | 0              | 639            | 680            |
| 06092        | Alberhill-Serrano 500kV: Form the Alberhill-Serrano 500 kV line by looping the existing Serrano-Valley 500 kV line into Alberhill Sub.   | 900502072 | High      | <b>Jun-21</b> | 200                           | -              | 898            | 1,098          | 200           | -              | 898            | 1,098          |
| 06092        | Alberhill-Valley 500kV: Form the Alberhill-Valley 500 kV line by looping the existing Serrano-Valley 500 kV line into Alberhill Substation                                     | 900502073 | High      | <b>Jun-21</b> | 38                            | -              | 1,003          | 1,042          | 38            | -              | 1,003          | 1,042          |
| <b>06092</b> | <b>Total Alberhill</b>   |           |           |               | <b>20,496</b>                 | <b>2,524</b>   | <b>14,871</b>  | <b>37,892</b>  | <b>10,773</b> | <b>1,313</b>   | <b>8,660</b>   | <b>20,745</b>  |
| <b>07546</b> | <b>Eldorado-Lugo-Mohave Upgrade</b>  |           |           |               |                               |                |                |                |               |                |                |                |
| 07546        | ELMSC Real Properties Acquisition  | 801648460 | High      | <b>Dec-18</b> | 16                            | 22             | 197            | 235            | 15            | 21             | 183            | 219            |
| 07546        | Eldorado Sub: Upgrade Terminal Equipment   | 901056467 | High      | <b>Oct-19</b> | 4,887                         | 3,410          | 3,910          | 12,208         | 4,887         | 3,410          | 3,910          | 12,208         |
| 07546        | Lugo Sub: Upgrade Terminal Equipment and   | 901056468 | High      | <b>Aug-19</b> | 7,441                         | 3,798          | 3,370          | 14,609         | 7,441         | 3,798          | 3,370          | 14,609         |
| 07546        | Mohave Sub:Install CBs, Disc.&series cap   | 901490550 | High      | <b>Nov-19</b> | 5,422                         | 3,557          | 6,692          | 15,671         | 5,422         | 3,557          | 6,692          | 15,671         |
| 07546        | Mid-Line Cap:Inst cap on Eldor Lugo T/L  | 901624163 | High      | <b>Jan-20</b> | 5,512                         | 3,702          | 9,708          | 18,922         | 5,512         | 3,702          | 9,708          | 18,922         |
| 07546        | Inst Eldo-Lug-Mhve Series Caps at Ludlow   | 901826564 | High      | <b>Jan-20</b> | 6,085                         | 3,700          | 9,691          | 19,476         | 6,085         | 3,700          | 9,691          | 19,476         |
| 07546        | Eldorado-Mohave T/L: Instal OPGW, splice   | 901904770 | High      | <b>Jun-20</b> | 268                           | 354            | 2,934          | 3,556          | 268           | 354            | 2,934          | 3,556          |
| 07546        | Lugo-Mohave T/L(CA): Instal OPGW, splice   | 901904772 | High      | <b>Jun-20</b> | 794                           | 626            | 7,557          | 8,976          | 794           | 626            | 7,557          | 8,976          |
| 07546        | Lugo-Mohave T/L(NV): Instal OPGW, splice   | 901904773 | High      | <b>Jun-20</b> | 75                            | 82             | 394            | 551            | 75            | 82             | 394            | 551            |
| 07546        | Eldorado-Lugo T/L(CA): Clear infractions   | 901904774 | High      | <b>Jun-20</b> | 118                           | 184            | 2,504          | 2,805          | 118           | 184            | 2,504          | 2,805          |
| <b>07546</b> | <b>Total Eldorado-Lugo-Mohave</b>  |           |           |               | <b>30,618</b>                 | <b>19,434</b>  | <b>46,958</b>  | <b>97,010</b>  | <b>30,617</b> | <b>19,432</b>  | <b>46,944</b>  | <b>96,993</b>  |
| <b>07555</b> | <b>Mesa Substation</b>   |           |           |               |                               |                |                |                |               |                |                |                |
| 07555        | Mesa Substation: Upgrade Mesa from a 230/66/16 kV substation to a 500/230/66/16 kV substation.   | 900959223 | High      | <b>Jun-21</b> | 49,823                        | 110,042        | 75,834         | 235,699        | 25,280        | 55,835         | 38,478         | 119,594        |
| 07555        | Goodrich Sub: Upgrade/Update Protection.   | 901192358 | High      | <b>Dec-19</b> | 109                           | 74             | 43             | 225            | 109           | 74             | 43             | 225            |
| 07555        | Laguna Bell: Replace (4) 230 kV CBs  | 901192480 | High      | <b>Dec-19</b> | 1,172                         | 2              | 812            | 1,986          | 1,172         | 2              | 812            | 1,986          |
| 07555        | Lighthipe:Replace (2) 230kV CBs&disconct   | 901192481 | High      | <b>Dec-19</b> | 502                           | 237            | 48             | 787            | 502           | 237            | 48             | 787            |
| 07555        | Rio Hondo Sub: Upgrade/Update Protection   | 901192483 | High      | <b>Dec-19</b> | 157                           | 2              | 162            | 321            | 157           | 2              | 162            | 321            |
| 07555        | Mesa Area Phase2: Relocate various lines   | 901197441 | High      | <b>Dec-20</b> | 4,223                         | 957            | 481            | 5,661          | 4,223         | 957            | 481            | 5,661          |
| 07555        | Mesa-Redondo 220kV: Install 4 structures and 2300 ckt ft of conductor.   | 901560422 | High      | <b>Dec-20</b> | 989                           | 227            | 3,040          | 4,257          | 989           | 227            | 3,040          | 4,257          |
| 07555        | Center Sub:Replc 3 GE relays   | 901564026 | High      | <b>Dec-19</b> | 107                           | 3              | 87             | 196            | 107           | 3              | 87             | 196            |
| 07555        | Redondo Sub: Replc 1 SEL-311L relay.   | 901564029 | High      | <b>Dec-19</b> | 153                           | 178            | -              | 332            | 153           | 178            | -              | 332            |
| 07555        | Mesa: SCE 50% MWD Water Line Relocation  | 901777019 | High      | <b>Jan-18</b> | 5,490                         | 2,696          | -              | 8,186          | 3,952         | 1,941          | -              | 5,894          |
| 07555        | Eagle Rock-Mesa: Install 1 structure and 1500 ckt ft of conductor  | 902124236 | High      | <b>Dec-20</b> | -                             | 4              | 1,101          | 1,106          | -             | 4              | 1,101          | 1,106          |
| 07555        | Goodrich-Mesa: Install 1000ft cndctr   | 902124387 | High      | <b>Dec-20</b> | 0                             | 94             | 166            | 260            | 0             | 94             | 166            | 260            |
| 07555        | Laguna Bell-Mesa #1 220kV: Install 2300 ckt ft of conductor  | 902124388 | High      | <b>Dec-20</b> | -                             | -              | 86             | 86             | -             | -              | 86             | 86             |
| 07555        | Laguna Bell-Mesa #2: Install 3 structures and 1400 ckt ft of conductor   | 902124389 | High      | <b>Dec-20</b> | 16                            | 235            | 3,263          | 3,515          | 16            | 235            | 3,263          | 3,515          |
| 07555        | Lighthipe-Mesa: Install 3 strctcs+cnd  | 902124390 | High      | <b>Dec-20</b> | 40                            | 2,295          | 3,608          | 5,943          | 40            | 2,295          | 3,608          | 5,943          |
| 07555        | Mesa-Rio Hondo #1 220kV: Install 4 structures and 3000 ckt ft of conductor   | 902124394 | High      | <b>Dec-20</b> | -                             | 1,223          | 3,262          | 4,484          | -             | 1,223          | 3,262          | 4,484          |
| 07555        | Mesa-Rio Hondo2: Install 3000ft cndctr   | 902124395 | High      | <b>Dec-20</b> | 0                             | 93             | 546            | 640            | 0             | 93             | 546            | 640            |
| 07555        | Mesa-Vincent1: Install 2 strctcs+cndctr  | 902124396 | High      | <b>Dec-20</b> | 1,326                         | 223            | 2,608          | 4,157          | 1,326         | 223            | 2,608          | 4,157          |
| 07555        | Mesa-Vincent2: Install 2 strctcs+cndctr  | 902124398 | High      | <b>Dec-20</b> | 136                           | 257            | 271            | 665            | 136           | 257            | 271            | 665            |
| 07555        | Mesa-Walnut: Install 4 structures and 2900 ckt ft of conductor   | 902124580 | High      | <b>Dec-20</b> | 84                            | 119            | 638            | 841            | 84            | 119            | 638            | 841            |
| 07555        | Redondo-Vincent: Install 1500 ckt ft of shoofly conductor.   | 902124582 | High      | <b>Dec-20</b> | 775                           | 868            | 74             | 1,717          | 775           | 868            | 74             | 1,717          |

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|--|---|-----------|-----------|--------|-------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|  |   |           | Voltage   |        | Prior                         | 2018           | 2019           | Total          | Prior          | 2018           | 2019           | Total          |
| 07555  | Goodrich-Laguna Bell: Install 1500ft cnd  | 902132965 | High      | Dec-20 | 0                             | 210            | -              | 210            | 0              | 210            | -              | 210            |
| 07555  | Laguna Bell-Rio Hondo: Install 1 shoofly ESP and 500 ckt ft of shoofly conductor. | 902132967 | High      | Dec-20 | 808                           | 3,086          | 221            | 4,115          | 808            | 3,086          | 221            | 4,115          |
| 07555  | Mesa: Upgrade to a 500/230/66/16kV sub  | 902178838 | High      | Jun-21 | 364                           | 1,632          | 25,756         | 27,752         | 364            | 1,632          | 25,756         | 27,752         |
| <b>07555</b>   | <b>Total Mesa</b>   |           |           |        | <b>66,275</b>                 | <b>124,760</b> | <b>122,107</b> | <b>313,141</b> | <b>40,195</b>  | <b>69,798</b>  | <b>84,750</b>  | <b>194,744</b> |
| <b>Total Incentive Transmission Projects</b>                       |   |           |           |        | <b>205,592</b>                | <b>257,447</b> | <b>338,669</b> | <b>801,708</b> | <b>169,787</b> | <b>201,272</b> | <b>295,088</b> | <b>666,148</b> |
| <b>Total Incentive Transmission Projects (Closing by Dec 2019)</b> |   |           |           |        | <b>38,831</b>                 | <b>31,438</b>  | <b>22,001</b>  | <b>92,269</b>  | <b>37,251</b>  | <b>30,681</b>  | <b>21,322</b>  | <b>89,254</b>  |