

**2019-2028 Power Utility Capital Program**

|  | 2019          | 2020          | 2021          | 2022          | 2023          | Five Year<br>Total | 2024          | 2025          | 2026          | 2027          | 2028          | Ten Year<br>Total |
|--|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|-------------------|
| <b>Revenue</b>   |               |               |               |               |               |                    |               |               |               |               |               |                   |
| <b>Beginning Balance</b>   | \$ 16,112,217 | \$ 14,283,100 | \$ 17,869,806 | \$ 17,846,512 | \$ 21,889,953 | \$ 16,112,217      | \$ 25,270,219 | \$ 31,594,493 | \$ 31,984,912 | \$ 30,711,909 | \$ 29,253,605 | \$ 16,112,217     |
| A Operating Revenues   | 6,535,316     | 8,538,793     | 9,399,240     | 11,509,610    | 11,147,220    | 47,130,179         | 12,105,700    | 12,578,130    | 12,489,370    | 12,274,210    | 11,913,430    | 108,491,019       |
| B Aid to Construction  | 1,610,000     | 1,666,350     | 1,938,920     | 2,006,780     | 2,077,010     | 9,299,060          | 2,149,710     | 2,224,950     | 2,302,830     | 2,383,420     | 2,466,840     | 20,826,810        |
| C Service Installations  | 310,000       | 320,850       | 332,080       | 343,710       | 355,740       | 1,662,380          | 368,180       | 381,060       | 394,400       | 408,210       | 422,490       | 3,636,720         |
| D Payback from Water   | 783,750       | 772,500       | 761,250       | -             | -             | 2,317,500          | -             | -             | -             | -             | -             | 2,317,500         |
| E PIF Collections  | 2,743,740     | 2,846,630     | 2,975,580     | 3,110,370     | 3,249,710     | 14,926,030         | 3,394,000     | 3,543,680     | 3,698,540     | 3,858,320     | 4,021,140     | 33,441,710        |
| F Interest on Investments  | 435,030       | 428,490       | 500,360       | 481,860       | 612,920       | 2,458,660          | 833,920       | 1,105,810     | 1,311,810     | 1,234,110     | 1,140,890     | 8,085,200         |
| <b>Total Revenue</b>   | \$ 28,530,053 | \$ 28,856,713 | \$ 33,777,236 | \$ 35,298,842 | \$ 39,332,553 | \$ 93,906,026      | \$ 44,121,729 | \$ 51,428,123 | \$ 52,181,862 | \$ 50,870,179 | \$ 49,218,395 | \$ 192,911,176    |
| <b>Expenditures</b>  |               |               |               |               |               |                    |               |               |               |               |               |                   |
| <b>Capital Projects</b>  |               |               |               |               |               |                    |               |               |               |               |               |                   |
| <b>PWR - Capital Blanket Projects</b>  |               |               |               |               |               |                    |               |               |               |               |               |                   |
| 1 Miscellaneous Capital Blanket Projects   | 1,441,850     | 1,492,320     | 1,544,548     | 1,598,615     | 1,654,561     | 7,731,894          | 1,712,456     | 1,772,390     | 1,834,435     | 1,898,630     | 1,965,075     | 16,914,880        |
| <b>PWR - Conversion Projects</b>   |               |               |               |               |               |                    |               |               |               |               |               |                   |
| 2 OH to UG Conversion - 29th. - Logan to Garfield  | -             | -             | 811,454       | -             | -             | 811,454            | -             | -             | -             | -             | -             | 811,454           |
| 3 OH to UG Conversion - Along 14th St. SE from St. Louis going .26 Miles East                    | -             | 10,454        | 421,958       | -             | -             | 432,412            | -             | -             | -             | -             | -             | 432,412           |
| 4 OH to UG Conversion - Along 14th St. SW Between Roosevelt & S. Taft Ave.                       | -             | -             | 21,634        | 649,491       | -             | 671,125            | -             | -             | -             | -             | -             | 671,125           |
| 5 OH to UG Conversion - Along 29th St from Madison to Hwy 287                                    | -             | -             | 811,454       | -             | -             | 811,454            | -             | -             | -             | -             | -             | 811,454           |
| 6 OH to UG Conversion - Along Madison Between 16th and SW257 Along CKT 231                       | -             | -             | -             | 55,994        | 1,101,052     | 1,157,046          | -             | -             | -             | -             | -             | 1,157,046         |
| 7 OH to UG Conversion - Along Madison Between 29th and Vault 1023 - 200 Amp                      | -             | -             | -             | -             | -             | -                  | 11,999        | 484,204       | -             | -             | -             | 496,203           |
| 8 OH to UG Conversion - Circuit 214 - 7th Between Railroad and Monroe - Downtown Backbone        | -             | 653,349       | -             | -             | -             | 653,349            | -             | -             | -             | -             | -             | 653,349           |
| 9 OH to UG Conversion - Circuit 214 - Eisenhower Between Goram and Madison                       | -             | -             | 10,817        | 571,105       | -             | 581,922            | -             | -             | -             | -             | -             | 581,922           |
| 10 OH to UG Conversion - Circuit 214 - Eisenhower Between Madison & Boise - Downtown             | -             | -             | -             | 515,110       | -             | 515,110            | -             | -             | -             | -             | -             | 515,110           |
| 11 OH to UG Conversion - Circuit 214 - Gorom Between Eisenhower and 11th - Downtown              | -             | -             | -             | 257,560       | -             | 257,560            | -             | -             | -             | -             | -             | 257,560           |
| 12 OH to UG Conversion - Circuit 214 - Monroe Between 7th and 11th - Downtown Backbone           | -             | -             | 465,236       | -             | -             | 465,236            | -             | -             | -             | -             | -             | 465,236           |
| 13 OH to UG Conversion - Circuit 214 - Railroad Between 3rd and 7th - Downtown Backbone          | 434,300       | -             | -             | -             | -             | 434,300            | -             | -             | -             | -             | -             | 434,300           |
| 14 OH to UG Conversion - Circuit 411 - Along S. Taft from 20th St. SW to 23rd St. Sw.            | -             | -             | -             | -             | 46,359        | 46,359             | 851,693       | -             | -             | -             | -             | 898,052           |
| 15 OH to UG Conversion - Circuit 411 - Railroad ROW from Taft to Grant                           | -             | -             | -             | 615,888       | -             | 615,888            | -             | -             | -             | -             | -             | 615,888           |
| 16 OH to UG Conversion - Circuit 713 - from 402 & Lincoln N to 1st St                            | -             | -             | -             | -             | 46,359        | 46,359             | 971,650       | -             | -             | -             | -             | 1,018,009         |
| 17 OH to UG Conversion - Circuits 222 & 221 - from 11th Along Madison to 1st                     | -             | 31,361        | 492,284       | -             | -             | 523,645            | -             | -             | -             | -             | -             | 523,645           |
| 18 OH to UG Conversion - Highway 287 from 29th St to 41st St                                     | 1,010,000     | -             | -             | -             | -             | 1,010,000          | -             | -             | -             | -             | -             | 1,010,000         |
| 19 OH to UG Conversion - Highway 287 from 41st St to 57th St                                     | -             | 1,045,350     | -             | -             | -             | 1,045,350          | -             | -             | -             | -             | -             | 1,045,350         |
| 20 OH to UG Conversion - Highway 287 from 57th St to 71st St                                     | -             | -             | 1,081,942     | -             | -             | 1,081,942          | -             | -             | -             | -             | -             | 1,081,942         |
| 21 OH to UG Conversion - S. Roosevelt  | -             | -             | -             | -             | -             | -                  | 1,439,471     | -             | -             | -             | -             | 1,439,471         |
| 22 OH to UG Conversion - Wilson Ave. & Carlisle to SW 10th & Tyler                               | -             | -             | 703,263       | -             | -             | 703,263            | -             | -             | -             | -             | -             | 703,263           |
| <b>PWR - Customer Aid to Construction Projects</b>   |               |               |               |               |               |                    |               |               |               |               |               |                   |
| 23 Labor, Fleet and Other Materials  | 1,260,000     | 1,304,100     | 1,563,990     | 1,618,730     | 1,675,380     | 7,422,200          | 1,734,020     | 1,794,710     | 1,857,530     | 1,922,540     | 1,989,830     | 16,720,830        |
| <b>PWR - PIF Feeder Projects</b>   |               |               |               |               |               |                    |               |               |               |               |               |                   |
| 24 37th St 600 Amp Extension Between Boyd Lake Ave and Rocky Mountain Blvd                       | 1,212,000     | -             | -             | -             | -             | 1,212,000          | -             | -             | -             | -             | -             | 1,212,000         |
| 25 Blanket - Development Driven Construction of Miscellaneous Primary Feeder Extensions          | 151,500       | 156,803       | 162,287       | 167,973       | 173,851       | 812,414            | 179,932       | 186,234       | 192,748       | 199,495       | 206,474       | 1,777,297         |
| 26 County Road 30 - Phase II - I25 Crossing  | 1,010,000     | -             | -             | -             | -             | 1,010,000          | -             | -             | -             | -             | -             | 1,010,000         |
| 27 Extend New Feeders from Boise and 402 to I25 Towards Future New Substation                    | -             | 52,268        | 2,109,779     | -             | -             | 2,162,047          | -             | -             | -             | -             | -             | 2,162,047         |
| 28 Extend New Feeders from East Substation to Boise and 402                                      | -             | 522,675       | -             | -             | -             | 522,675            | -             | -             | -             | -             | -             | 522,675           |
| 29 Extend New Feeders from Valley V3 into System   | -             | -             | -             | 55,994        | 1,622,595     | 1,678,589          | -             | -             | -             | -             | -             | 1,678,589         |
| 30 Extension of 600 Amp from 14th St SW to Hwy 60 Along Hwy 287                                  | 1,111,000     | -             | -             | -             | -             | 1,111,000          | -             | -             | -             | -             | -             | 1,111,000         |
| 31 Foothills Substation Conduit - Install New Conduit Along W. 22nd East from Rio Blanco to Van  | -             | -             | -             | -             | -             | -                  | -             | -             | 1,927,504     | -             | -             | 1,927,504         |
| 32 Install Conduits from Byrd Dr to I25 Frontage Rd. Connecting at Kendall Parkway               | -             | 940,815       | -             | -             | -             | 940,815            | -             | -             | -             | -             | -             | 940,815           |
| 33 Sub to Sub Tie - Extend New Feeders Along CR 11 from 57th St. to CR 30.                       | -             | -             | -             | -             | -             | -                  | -             | -             | -             | 26,603        | 1,073,691     | 1,100,294         |
| 34 Sub to Sub Tie - Extend New Feeders Along CR 11 from Boyd Lake Ave to CR 30.                  | -             | -             | -             | -             | -             | -                  | -             | -             | -             | -             | 2,064,794     | 2,064,794         |
| 35 Sub to Sub Tie - Install New Conduit Bank and 750 AL from 57th and Taft to Vault V1780        | -             | -             | -             | 55,994        | 811,303       | 867,297            | -             | -             | -             | -             | -             | 867,297           |
| 36 Sub to Sub Tie - Install New conduit Bank and 750 AL from Garfield to CR11                    | -             | -             | -             | -             | 927,200       | 927,200            | -             | -             | -             | -             | -             | 927,200           |
| 37 Sub to Sub Tie - Install New Duct Bank and 750 AL on Madison E on 37th to CR11C, N to 57th St | -             | -             | -             | -             | -             | -                  | -             | 62,075        | 963,752       | -             | -             | 1,025,827         |
| 38 The Brands - Byrd Dr. Fairgrounds Along Crossroads  | 404,000       | -             | -             | -             | -             | 404,000            | -             | -             | -             | -             | -             | 404,000           |

|   | 2019          | 2020          | 2021          | 2022          | 2023          | Five Year<br>Total | 2024          | 2025          | 2026          | 2027          | 2028          | Ten Year<br>Total |
|---|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|-------------------|
| <b>PWR - Street Light Projects</b>  | \$ 252,500    | \$ 261,338    | \$ 270,478    | \$ 279,952    | \$ 289,749    | \$ 1,354,017       | \$ 299,890    | \$ 310,393    | \$ 321,250    | \$ 332,492    | \$ 344,126    | \$ 2,962,168      |
| 39 Arterials/Major Collectors   | 151,500       | 156,803       | 162,287       | 167,973       | 173,851       | 812,414            | 179,932       | 186,234       | 192,748       | 199,495       | 206,474       | 1,777,297         |
| 40 Customer Requests/Miscellaneous Projects   | 101,000       | 104,535       | 108,191       | 111,979       | 115,898       | 541,603            | 119,958       | 124,159       | 128,502       | 132,997       | 137,652       | 1,184,871         |
| <b>PWR - Substation General Projects</b>  | \$ 1,212,000  | \$ 1,411,223  | \$ 1,271,277  | \$ 895,847    | \$ 927,200    | \$ 5,717,547       | \$ 959,648    | \$ 186,234    | \$ 5,654,010  | \$ 5,519,407  | \$ 3,991,924  | \$ 22,028,770     |
| 41 Extend New Feeders for PRPA Community Solar Garden into System                           | 252,500       | -             | -             | -             | -             | 252,500            | -             | -             | -             | -             | -             | 252,500           |
| 42 Extension of Underground Transmission to Serve New Substation in SE Corner of Service    | -             | -             | -             | -             | -             | -                  | -             | -             | 5,461,262     | 5,319,912     | 3,785,450     | 14,566,624        |
| 43 Order and Install of Switchgear for H1 and H2  | -             | 1,254,420     | -             | -             | -             | 1,254,420          | -             | -             | -             | -             | -             | 1,254,420         |
| 44 Relay Replacements at Substations - Airport  | -             | -             | 243,440       | -             | -             | 243,440            | -             | -             | -             | -             | -             | 243,440           |
| 45 Security Gates and Fences at Substations   | 656,500       | -             | 703,263       | 727,874       | 753,349       | 2,840,986          | 779,716       | -             | -             | -             | -             | 3,620,702         |
| 46 Substation Annunciators  | 151,500       | -             | 162,287       | -             | -             | 313,787            | -             | -             | -             | -             | -             | 313,787           |
| 47 Substation Capital Maintenance   | 151,500       | 156,803       | 162,287       | 167,973       | 173,851       | 812,414            | 179,932       | 186,234       | 192,748       | 199,495       | 206,474       | 1,777,297         |
| <b>PWR - Substation PIF Projects</b>  | \$ 800,000    | \$ 1,035,000  | \$ 2,046,042  | \$ 1,837,705  | \$ 579,498    | \$ 6,298,245       | \$ -          | \$ 7,278,373  | \$ -          | \$ 3,292,020  | \$ 1,226,610  | \$ 18,095,248     |
| 48 East Substation - Order & Install New Transformer E1                                     | -             | 1,035,000     | -             | -             | -             | 1,035,000          | -             | -             | -             | -             | -             | 1,035,000         |
| 49 Foothills Substation - Order & Install F3 & F4 Transformers                              | -             | -             | -             | -             | -             | -                  | -             | -             | -             | 3,292,020     | -             | 3,292,020         |
| 50 Horseshoe Substation - Replace Transformer H1  | -             | -             | -             | -             | -             | -                  | -             | -             | -             | -             | 1,226,610     | 1,226,610         |
| 51 Land Development   | -             | -             | 1,081,942     | -             | -             | 1,081,942          | -             | -             | -             | -             | -             | 1,081,942         |
| 52 Land Purchase  | 800,000       | -             | -             | -             | -             | 800,000            | -             | -             | -             | -             | -             | 800,000           |
| 53 New Substation in SE Corner of Service Territory   | -             | -             | -             | -             | -             | -                  | -             | 7,278,373     | -             | -             | -             | 7,278,373         |
| 54 Replace Airport Substation Transformer   | -             | -             | 964,100       | -             | -             | 964,100            | -             | -             | -             | -             | -             | 964,100           |
| 55 Valley Substation - Install New Switchgear Lineup & Transformer for V3                   | -             | -             | -             | -             | 579,498       | 579,498            | -             | -             | -             | -             | -             | 579,498           |
| 56 Valley Substation - Order New Switchgear Lineup for V3                                   | -             | -             | -             | 839,855       | -             | 839,855            | -             | -             | -             | -             | -             | 839,855           |
| 57 Valley Substation - Order New Transformer  | -             | -             | -             | 997,850       | -             | 997,850            | -             | -             | -             | -             | -             | 997,850           |
| <b>PWR - System Improvements</b>  | \$ 3,686,803  | \$ 2,069,851  | \$ 2,142,281  | \$ 4,232,931  | \$ 4,207,227  | \$ 16,339,093      | \$ 4,366,477  | \$ 7,368,598  | \$ 8,718,724  | \$ 8,425,387  | \$ 8,782,231  | \$ 54,000,510     |
| 58 200 Amp Cable Replacement - Planned  | 303,000       | 313,605       | 324,584       | 335,946       | 347,703       | 1,624,838          | 359,873       | 372,468       | 385,497       | 398,990       | 412,958       | 3,554,624         |
| 59 Canyon Voltage Conversion from Idlewilde Park to Waltonia Rd                             | 303,000       | -             | -             | -             | -             | 303,000            | -             | -             | -             | -             | -             | 303,000           |
| 60 Demand Response  | 151,500       | 156,803       | 162,287       | 167,973       | 173,851       | 812,414            | 179,932       | 186,234       | 192,748       | 199,495       | 206,474       | 1,777,297         |
| 61 Distribution Automation  | 111,100       | 114,989       | 119,008       | 123,180       | 127,492       | 595,769            | 131,957       | 136,572       | 141,350       | 146,299       | 151,418       | 1,303,365         |
| 62 Energy Diversification Projects  | 303,000       | 313,605       | 324,584       | 335,946       | 347,703       | 1,624,838          | 359,873       | 372,468       | 385,497       | 398,990       | 412,958       | 3,554,624         |
| 63 Extend New Feeders from Foothills Substation from W. 22nd & Rio Blanco to Rossum and     | 404,000       | -             | -             | -             | -             | 404,000            | -             | -             | -             | -             | -             | 404,000           |
| 64 Install 600 Amp Tie From Cascade West Along Highway 34, turning South on Rossum to Saint | -             | -             | -             | -             | -             | -                  | -             | -             | -             | -             | 61,942        | 61,942            |
| 65 Metering Equipment   | 500,000       | 517,500       | 535,613       | 554,359       | 573,762       | 2,681,234          | 593,843       | -             | -             | -             | -             | 3,275,077         |
| 66 Miscellaneous Small Projects   | 101,000       | 104,535       | 108,191       | 279,952       | 289,749       | 883,427            | 299,889       | 310,383       | 321,251       | 332,492       | 344,137       | 2,491,579         |
| 67 Planned Future Projects - General  | -             | -             | -             | 1,847,674     | 1,738,493     | 3,586,167          | 1,811,344     | 2,855,563     | 4,047,757     | 3,590,934     | 3,716,617     | 19,608,382        |
| 68 Planned Future Projects - Worst Performing Feeders                                       | -             | -             | -             | -             | -             | -                  | -             | 2,483,096     | 2,570,005     | 2,659,954     | 2,753,052     | 10,466,107        |
| 69 Reconductor 921 on N Taft Ave from Railroad ROW to Eisenhower                            | 474,953       | -             | -             | -             | -             | 474,953            | -             | -             | -             | -             | -             | 474,953           |
| 70 Smaller Aging Infrastructure Replacements Projects - Unplanned                           | 378,750       | 392,011       | 405,727       | 419,928       | 434,623       | 2,031,039          | 449,834       | 465,580       | 481,871       | 498,738       | 516,201       | 4,443,263         |
| 71 Transfer West Substation Circuit 914 to Foothills Substation                             | 505,000       | -             | -             | -             | -             | 505,000            | -             | -             | -             | -             | -             | 505,000           |
| 72 Underground Blanket - Development Driven Construction of Lateral Feeder Extensions       | 151,500       | 156,803       | 162,287       | 167,973       | 173,851       | 812,414            | 179,932       | 186,234       | 192,748       | 199,495       | 206,474       | 1,777,297         |
| <b>PWR - New &amp; Replacement Equipment</b>  |               |               |               |               |               |                    |               |               |               |               |               |                   |
| 73 Replace #5206, 2002 Hyster Forklift  | 71,000        | -             | -             | -             | -             | 71,000             | -             | -             | -             | -             | -             | \$ 71,000         |
| 74 Replace #5807, 2009 S&R UnderDawg Puller   | 190,000       | -             | -             | -             | -             | 190,000            | -             | -             | -             | -             | -             | \$ 190,000        |
| 75 Replacement of Metering Software Server and Ancillary Equipment                          | 10,000        | -             | -             | -             | -             | 10,000             | -             | -             | -             | -             | -             | \$ 10,000         |
| 76 Replacement of Electric SCADA Servers and Scada Workstations                             | 39,000        | -             | -             | -             | -             | 39,000             | -             | -             | -             | -             | -             | \$ 39,000         |
| <b>Subtotal Equipment</b>   | \$ 310,000    | \$ -          | \$ -          | \$ -          | \$ -          | \$ 310,000         | \$ -          | \$ -          | \$ -          | \$ -          | \$ -          | \$ 310,000        |
| <b>Total</b>  | \$ 14,295,953 | \$ 10,986,907 | \$ 15,930,724 | \$ 13,408,889 | \$ 14,062,334 | \$ 68,374,807      | \$ 12,527,236 | \$ 19,443,211 | \$ 21,469,953 | \$ 21,616,574 | \$ 21,644,755 | \$ 165,076,536    |
| <b>Reserve for Future Capital Projects</b>  | \$ 14,234,100 | \$ 17,869,806 | \$ 17,846,512 | \$ 21,889,953 | \$ 25,270,219 | \$ 25,531,219      | \$ 31,594,493 | \$ 31,984,912 | \$ 30,711,909 | \$ 29,253,605 | \$ 27,573,640 | \$ 27,834,640     |

**City of Loveland  
Capital Improvement  
Program**

**330-Power**

**REQUEST NAME**

PWR - Capital Blanket Projects

**REQUEST CODE**

CIP-330-19-025

**REQUEST TYPE**

Capital Improvement Program

**Start Date**

1/1/2019

**PROJECT NAME**

UNDERGROUND DIST LINES

**PROJECT PRIORITY #**

1

**PROJECT #**

PW902

**PROJECT AREA**

NA

**PROJECT DESCRIPTION / NECESSITY**



Overhead Distribution Lines (PW901) - \$296,223  
 Underground Distribution Lines (PW902) - \$2,369,743  
 Meter Purchases/Installs/Upgrades (PW903) - \$2,932,840  
 Distribution Transformers (PW912) - \$5,865,690  
 Substation (PW905) - \$0  
 Street Lights & Yard Lights (PW906) - \$1,777,297  
 Overhead Service Installation/Upgrades (PW907) - \$118,493  
 Underground Service Installations/Upgrades (PW908) - \$2,962,168  
 Temporary Service Installations (PW909) - \$592,426

**Capital Items**

|                     | 2019             | 2020             | 2021             | 2022             | 2023             | 2024-2028        | Total             |
|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Capitalized Labor   | 384,838          | 0                | 0                | 0                | 0                | 0                | 384,838           |
| Purchased Materials | 839,971          | 0                | 0                | 0                | 0                | 0                | 839,971           |
| Construction        | 210,191          | 1,485,230        | 1,537,210        | 1,591,020        | 1,646,700        | 9,139,360        | 15,609,711        |
| 1% for the Arts     | 6,850            | 7,090            | 7,337            | 7,595            | 7,861            | 43,627           | 80,360            |
| <b>Total</b>        | <b>1,441,850</b> | <b>1,492,320</b> | <b>1,544,548</b> | <b>1,598,615</b> | <b>1,654,561</b> | <b>9,182,987</b> | <b>16,914,880</b> |

**Funding Sources**

|                    | 2019             | 2020             | 2021             | 2022             | 2023             | 2024-2028        | Total             |
|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Power Fund Balance | 1,441,850        | 1,492,320        | 1,544,547        | 1,598,615        | 1,654,561        | 9,182,987        | 16,914,880        |
| <b>Total</b>       | <b>1,441,850</b> | <b>1,492,320</b> | <b>1,544,548</b> | <b>1,598,615</b> | <b>1,654,561</b> | <b>9,182,987</b> | <b>16,914,880</b> |

**City of Loveland  
Capital Improvement  
Program**

**330-Power**

**REQUEST NAME**

PWR - Conversions Projects

**REQUEST CODE**

CIP-330-19-020

**REQUEST TYPE**

Capital Improvement Program

**Start Date**

1/1/2019

**PROJECT NAME**

CONVERSIONS

**PROJECT PRIORITY #**

1

**PROJECT #**

PW914

**PROJECT AREA**

NA

**PROJECT DESCRIPTION / NECESSITY**



Please see next page for Description.

**Capital Items**

|                     | <b>2019</b>      | <b>2020</b>      | <b>2021</b>      | <b>2022</b>      | <b>2023</b>      | <b>2024-2028</b> | <b>Total</b>      |
|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Capitalized Labor   | 229,387          | 0                | 0                | 0                | 0                | 0                | 229,387           |
| Purchased Materials | 360,184          | 0                | 0                | 0                | 0                | 0                | 360,184           |
| Construction        | 840,429          | 1,723,280        | 4,772,320        | 2,638,760        | 1,181,950        | 3,721,800        | 14,878,539        |
| 1% for the Arts     | 14,300           | 17,232           | 47,723           | 26,388           | 11,820           | 37,218           | 154,681           |
| <b>Total</b>        | <b>1,444,300</b> | <b>1,740,512</b> | <b>4,820,043</b> | <b>2,665,148</b> | <b>1,193,770</b> | <b>3,759,018</b> | <b>15,622,791</b> |

**Funding Sources**

|                    | <b>2019</b>      | <b>2020</b>      | <b>2021</b>      | <b>2022</b>      | <b>2023</b>      | <b>2024-2028</b> | <b>Total</b>      |
|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Power Fund Balance | 1,444,300        | 1,740,512        | 4,820,043        | 2,665,148        | 1,193,770        | 3,759,018        | 15,622,791        |
| <b>Total</b>       | <b>1,444,300</b> | <b>1,740,512</b> | <b>4,820,043</b> | <b>2,665,148</b> | <b>1,193,770</b> | <b>3,759,018</b> | <b>15,622,791</b> |

**City of Loveland  
Capital Improvement  
Program**

**Description**

The Water & Power Department does a number of overhead (OH) to underground (UG) conversion projects, where existing OH infrastructure is converted to UG infrastructure, per year. A list of such projects included in the 2019-2028 GIP is included below.

Overhead (OH) to underground (UG) conversion Wilson Ave & Carlisle to SW 10th & Tyler - \$703,263  
OH to UG circuit 214 - Eisenhower between Gorum and Madison - \$581,922  
OH to UG conversion along 27th St from Madison to HWY 287 - \$811,454  
OH to UG conversion circuits 222 & 221 from 11th along Madison to 1st St - \$523,645  
OH to UG conversion circuit 713 from 402 & Lincoln N to 1st St - \$1,018,009  
OH to UG conversion circuit 411 along S. Taft from 20th St SW to 23rd St SW - \$898,052  
OH to UG conversion circuit 411 on Railroad right of way from Taft to Grant - \$615,888  
OH to UG conversion along 14th St SW between Roosevelt & S. Taft Ave - \$671,125  
OH to UG conversion along 14th St SE from St. Louis going .26 miles east - \$432,412  
OH to UG conversion along Madison between 16th & SW257 along ckt 231 - \$1,157,046  
OH to UG conversion along Madison between 29th and vault 1023 - 200amp - \$496,203  
OH to UG conversion on 29th - Logan to Garfield - \$811,454  
OH to UG conversion on S. Roosevelt - \$1,439,471  
OH to UG conversion circuit 214 - Eisenhower between Madison and Boise - Downtown Backbone - \$515,110  
OH to UG conversion circuit 214 - 7th between Railroad and Monroe - Downtown Backbone - \$653,349  
OH to UG conversion circuit 214 - Monroe between 7th and 11th - Downtown Backbone - \$465,236  
OH to UG conversion circuit 214 - Gorum between Eisenhower and 11th - Downtown Backbone - \$257,560  
OH to UG conversion circuit 214 - Railroad between 3rd and 7th - Downtown Backbone - \$434,300  
OH to UG conversion Highway 287 from 29th St to 41st St - \$1,010,000  
OH to UG conversion Highway 287 from 41st St to 57th St - \$1,045,350  
OH to UG conversion Highway 287 from 57th St to 71st St - \$1,081,942

**City of Loveland  
Capital Improvement  
Program**

**330-Power**

**REQUEST NAME**

PWR - Customer Aid to Construction  
(ATC)

**REQUEST CODE**

CIP-330-19-017

**REQUEST TYPE**

Capital Improvement Program

**Start Date**

1/1/2019

**PROJECT NAME**

CUSTOMER AID-TO-CONSTRUCT

**PROJECT PRIORITY #**

1

**PROJECT #**

PW912

**PROJECT AREA**

NA

**PROJECT DESCRIPTION / NECESSITY**



Customer Aid to Construction (ATC) projects are initiated by developers for new construction, upgrades, relocating, removing, or undergrounding of existing electrical facilities. The Water & Power Department budgets for labor, materials, and construction costs for such projects on an annual basis.

**Capital Items**

|                     | <b>2019</b>      | <b>2020</b>      | <b>2021</b>      | <b>2022</b>      | <b>2023</b>      | <b>2024-2028</b> | <b>Total</b>      |
|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Capitalized Labor   | 685,829          | 0                | 0                | 0                | 0                | 0                | 685,829           |
| Purchased Materials | 172,251          | 0                | 0                | 0                | 0                | 0                | 172,251           |
| Construction        | 401,920          | 1,304,100        | 1,563,990        | 1,618,730        | 1,675,380        | 9,298,630        | 15,862,750        |
| <b>Total</b>        | <b>1,260,000</b> | <b>1,304,100</b> | <b>1,563,990</b> | <b>1,618,730</b> | <b>1,675,380</b> | <b>9,298,630</b> | <b>16,720,830</b> |

**Funding Sources**

|                    | <b>2019</b>      | <b>2020</b>      | <b>2021</b>      | <b>2022</b>      | <b>2023</b>      | <b>2024-2028</b> | <b>Total</b>      |
|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Power Fund Balance | 1,260,000        | 1,304,100        | 1,563,990        | 1,618,730        | 1,675,380        | 9,298,630        | 16,720,830        |
| <b>Total</b>       | <b>1,260,000</b> | <b>1,304,100</b> | <b>1,563,990</b> | <b>1,618,730</b> | <b>1,675,380</b> | <b>9,298,630</b> | <b>16,720,830</b> |

**City of Loveland  
Capital Improvement  
Program**

331-Power PIF

**REQUEST NAME**

PWR - PIF-Feeder Projects

**REQUEST CODE**

CIP-331-19-023

**REQUEST TYPE**

Capital Improvement Program

**Start Date**

1/1/2019

**PROJECT NAME**

PIF-FEEDERS

**PROJECT PRIORITY #**

1

**PROJECT #**

PW921

**PROJECT AREA**

NA

**PROJECT DESCRIPTION / NECESSITY**



Blanket-Development Driven Construction of Miscellaneous Primary Feeder Extensions as Required to Meet New Load Requirements - \$1,777,297  
 Install Conduits from Byrd Dr to I25 Frontage Road Connecting at Kendall Parkway - \$940,815  
 Sub to Sub Tie - Install New Conduit Bank and 750 AL from Garfield to County Road 11 - \$927,200  
 Sub to Sub Tie - Install New Conduit Bank and 750 AL from 57th and Taft to Vault V1780 - \$867,297  
 Foothills Substation conduit - Install new Conduit Along W 22nd East from Rio Blanco to Van Buren - \$1,927,504  
 Extend New Feeders from Valley V3 Into System - \$1,678,589  
 Extend New Feeders from East Substation to Boise and 402 - \$522,675  
 Extend New Feeders from Boise and 402 to I25 Towards Future New Substation - \$2,162,047  
 Sub to Sub Tie - Install New Duct Bank and 750 AL on Madison E on 37th to County Road 11C, N to 57th St - \$1,025,827  
 Sub to Sub Tie - Extend New Feeders Along County Road 11 from 57th St to County Road 30 - \$1,100,294  
 Sub to Sub Tie - Extend New Feeders Along County Road 11 from Byrd Lake Ave to County Road 30 - \$2,064,794  
 The Brands - Byrd Dr. Fairgrounds Along Crossroads - \$404,000  
 Extension of 600 Amp from 14th St SW to Highway 60 Along Highway 287 - \$1,111,000  
 37th St 600 Amp Extension Between Boyd Lake Ave and Rocky Mountain Blvd - \$1,212,000  
 County Road 30 - Phase II - I25 Crossing - \$1,010,000

**Capital Items**

|                     | 2019             | 2020             | 2021             | 2022           | 2023             | 2024-2028        | Total             |
|---------------------|------------------|------------------|------------------|----------------|------------------|------------------|-------------------|
| Capitalized Labor   | 602,946          | 0                | 0                | 0              | 0                | 0                | 602,946           |
| Purchased Materials | 974,116          | 0                | 0                | 0              | 0                | 0                | 974,116           |
| Construction        | 2,272,938        | 1,656,000        | 2,249,570        | 277,190        | 3,499,950        | 7,013,170        | 16,968,818        |
| 1% for the Arts     | 38,500           | 16,560           | 22,495           | 2,772          | 35,000           | 70,132           | 185,459           |
| <b>Total</b>        | <b>3,888,500</b> | <b>1,672,560</b> | <b>2,272,065</b> | <b>279,962</b> | <b>3,534,950</b> | <b>7,083,302</b> | <b>18,731,339</b> |

**Funding Sources**

|                        | 2019             | 2020             | 2021             | 2022           | 2023             | 2024-2028        | Total             |
|------------------------|------------------|------------------|------------------|----------------|------------------|------------------|-------------------|
| Power PIF Fund Balance | 3,888,500        | 1,672,560        | 2,272,065        | 279,962        | 3,534,950        | 7,083,302        | 18,731,339        |
| <b>Total</b>           | <b>3,888,500</b> | <b>1,672,560</b> | <b>2,272,065</b> | <b>279,962</b> | <b>3,534,950</b> | <b>7,083,302</b> | <b>18,731,339</b> |

**City of Loveland  
Capital Improvement  
Program**

**331-Power PIF**

**REQUEST NAME**

PWR - PIF-Substation Projects

**REQUEST CODE**

CIP-331-19-022

**REQUEST TYPE**

Capital Improvement Program

**Start Date**

1/1/2019

**PROJECT NAME**

PIF-SUBSTATIONS

**PROJECT PRIORITY #**

1

**PROJECT #**

PW920

**PROJECT AREA**

NA

**PROJECT DESCRIPTION / NECESSITY**



Valley Substation - Order New Transformer - V3 - \$997,850  
 Valley Substation - Order New Switchgear Lineup for V3 - \$839,855  
 Valley Substation - Install New Switchgear Lineup & Transformer for V3 - \$579,498  
 New Substation in South East Corner of Service Territory - \$7,278,373  
 Replace Airport Substation Transformer - \$964,100  
 Foothills Substation - Order & Install F3 & F4 Transformers - \$3,292,020  
 Replace Horseshoe Substation Transformer H1 - \$1,226,610  
 Land Purchase - \$800,000  
 Land Development - \$1,081,942  
 East Substation - Order & Install New Transformer E1 - \$1,035,000

**Capital Items**

|                 | <b>2019</b>    | <b>2020</b>      | <b>2021</b>      | <b>2022</b>      | <b>2023</b>    | <b>2024-2028</b>  | <b>Total</b>      |
|-----------------|----------------|------------------|------------------|------------------|----------------|-------------------|-------------------|
| Construction    | 0              | 1,035,000        | 2,035,330        | 1,829,390        | 573,760        | 11,724,940        | 17,198,420        |
| 1% for the Arts | 0              | 0                | 10,712           | 8,315            | 5,738          | 72,063            | 96,828            |
| Land            | 800,000        | 0                | 0                | 0                | 0              | 0                 | 800,000           |
| <b>Total</b>    | <b>800,000</b> | <b>1,035,000</b> | <b>2,046,042</b> | <b>1,837,705</b> | <b>579,498</b> | <b>11,797,003</b> | <b>18,095,248</b> |

**Funding Sources**

|                        | <b>2019</b>    | <b>2020</b>      | <b>2021</b>      | <b>2022</b>      | <b>2023</b>    | <b>2024-2028</b>  | <b>Total</b>      |
|------------------------|----------------|------------------|------------------|------------------|----------------|-------------------|-------------------|
| Power PIF Fund Balance | 800,000        | 1,035,000        | 2,046,042        | 1,837,705        | 579,498        | 11,797,003        | 18,095,248        |
| <b>Total</b>           | <b>800,000</b> | <b>1,035,000</b> | <b>2,046,042</b> | <b>1,837,705</b> | <b>579,498</b> | <b>11,797,003</b> | <b>18,095,248</b> |





**City of Loveland  
Capital Improvement  
Program**

**330-Power**

**REQUEST NAME**

PWR - Street Lights

**REQUEST CODE**

CIP-330-19-021

**REQUEST TYPE**

Capital Improvement Program

**Start Date**

1/1/2019

**PROJECT NAME**

STREET LIGHTS-SPECIFIC

**PROJECT PRIORITY #**

1

**PROJECT #**

PW915

**PROJECT AREA**

NA

**PROJECT DESCRIPTION / NECESSITY**



These projects are for the installation of street lights at various locations including arterial and major collector streets. This also includes the installation of LED street lights.

Arterials/Major Collectors - \$1,777,297

Customer Requests/Miscellaneous Projects - \$1,184,871

**Capital Items**

|                     | <b>2019</b>    | <b>2020</b>    | <b>2021</b>    | <b>2022</b>    | <b>2023</b>    | <b>2024-2028</b> | <b>Total</b>     |
|---------------------|----------------|----------------|----------------|----------------|----------------|------------------|------------------|
| Purchased Materials | 100,000        | 0              | 0              | 0              | 0              | 0                | 100,000          |
| Construction        | 150,000        | 258,750        | 267,800        | 277,180        | 286,880        | 1,592,230        | 2,832,840        |
| 1% for the Arts     | 2,500          | 2,588          | 2,678          | 2,772          | 2,869          | 15,921           | 29,328           |
| <b>Total</b>        | <b>252,500</b> | <b>261,338</b> | <b>270,478</b> | <b>279,952</b> | <b>289,749</b> | <b>1,608,151</b> | <b>2,962,168</b> |

**Funding Sources**

|                    | <b>2019</b>    | <b>2020</b>    | <b>2021</b>    | <b>2022</b>    | <b>2023</b>    | <b>2024-2028</b> | <b>Total</b>     |
|--------------------|----------------|----------------|----------------|----------------|----------------|------------------|------------------|
| Power Fund Balance | 252,500        | 261,338        | 270,478        | 279,952        | 289,749        | 1,608,151        | 2,962,168        |
| <b>Total</b>       | <b>252,500</b> | <b>261,338</b> | <b>270,478</b> | <b>279,952</b> | <b>289,749</b> | <b>1,608,151</b> | <b>2,962,168</b> |

**City of Loveland  
Capital Improvement  
Program**

**330-Power**

**REQUEST NAME**

PWR - Substation General Projects

**REQUEST CODE**

CIP-330-19-018

**REQUEST TYPE**

Capital Improvement Program

**Start Date**

1/1/2019

**PROJECT NAME**

SUBSTATION-SPECIFIC

**PROJECT PRIORITY #**

1

**PROJECT #**

PW911

**PROJECT AREA**

NA

**PROJECT DESCRIPTION / NECESSITY**



Capital Maintenance - \$1,777,297  
 Security Gates and Fences at Substations - \$3,620,702  
 Relay Replacements at Substations - Airport - \$243,440  
 Substation Annunciators - \$313,787  
 Extend New Feeders for PRPA (Platte River Power Authority) Community Solar Garden Into System - \$252,500  
 Extension of Underground Transmission to Serve New Substation in South East Corner of Service Territory - \$14,566,624  
 Order and Install of Switchgear for H1 and H2 - \$1,254,420

**Capital Items**

|                     | <b>2019</b>      | <b>2020</b>      | <b>2021</b>      | <b>2022</b>    | <b>2023</b>    | <b>2024-2028</b>  | <b>Total</b>      |
|---------------------|------------------|------------------|------------------|----------------|----------------|-------------------|-------------------|
| Capitalized Labor   | 166,780          | 0                | 0                | 0              | 0              | 0                 | 166,780           |
| Purchased Materials | 249,556          | 0                | 0                | 0              | 0              | 0                 | 249,556           |
| Construction        | 783,664          | 1,397,250        | 1,258,690        | 886,977        | 918,020        | 16,149,726        | 21,394,327        |
| 1% for the Arts     | 12,000           | 13,973           | 12,587           | 8,870          | 9,180          | 161,497           | 218,107           |
| <b>Total</b>        | <b>1,212,000</b> | <b>1,411,223</b> | <b>1,271,277</b> | <b>895,847</b> | <b>927,200</b> | <b>16,311,223</b> | <b>22,028,770</b> |

**Funding Sources**

|                    | <b>2019</b>      | <b>2020</b>      | <b>2021</b>      | <b>2022</b>    | <b>2023</b>    | <b>2024-2028</b>  | <b>Total</b>      |
|--------------------|------------------|------------------|------------------|----------------|----------------|-------------------|-------------------|
| Power Fund Balance | 1,212,000        | 1,411,223        | 1,271,277        | 895,847        | 927,200        | 16,311,223        | 22,028,770        |
| <b>Total</b>       | <b>1,212,000</b> | <b>1,411,223</b> | <b>1,271,277</b> | <b>895,847</b> | <b>927,200</b> | <b>16,311,223</b> | <b>22,028,770</b> |

**City of Loveland  
Capital Improvement  
Program**

**330-Power**

**REQUEST NAME**

PWR - Systems Improvements

**REQUEST CODE**

CIP-330-19-019

**REQUEST TYPE**

Capital Improvement Program

**Start Date**

1/1/2019

**PROJECT NAME**

SYSTEM IMPROVEMENTS

**PROJECT PRIORITY #**

1

**PROJECT #**

PW913

**PROJECT AREA**

NA

**PROJECT DESCRIPTION / NECESSITY**



Underground Blanket-Development Driven Construction of Lateral Feeder Extensions as Required to Meet New Load Requirements - \$1,777,297  
 Demand Response - \$1,777,297  
 Smaller Aging Infrastructure Replacement Projects - Unplanned - \$4,443,263  
 Distribution Automation - \$1,303,365  
 Planned Future Projects - General - \$19,608,382  
 Planned Future Projects - Worst Performing Feeders - \$10,466,107  
 Energy Diversification Projects - \$3,554,624  
 200AMP Cable Replacements - Planned - \$3,554,624  
 Install 600 AMP Tie from Cascade West Along Highway 34, Turning South on Rossum to Saint Andrews - \$61,942  
 Canyon Voltage Conversion from Idelwilde Park to Waltonia Road - \$303,000  
 Extend New Feeders from Foothills Substation from W. 22nd & Rio Blanco to Rossum and Eisenhower - \$404,000  
 Metering Equipment - \$3,275,077  
 Transfer West Substation Circuit 914 to Foothills Substation - \$505,000  
 Miscellaneous Small Projects (PW915) - \$2,491,569  
 Reconductor 921 on N Taft Ave from Railroad Right of Way to Eisenhower - \$474,953

**Capital Items**

|                     | 2019             | 2020             | 2021             | 2022             | 2023             | 2024-2028         | Total             |
|---------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| Capitalized Labor   | 431,074          | 0                | 0                | 0                | 0                | 0                 | 431,074           |
| Purchased Materials | 682,254          | 0                | 0                | 0                | 0                | 0                 | 682,254           |
| Construction        | 2,541,922        | 2,054,480        | 2,126,373        | 4,196,509        | 4,171,252        | 37,294,406        | 52,384,942        |
| 1% for the Arts     | 31,553           | 15,371           | 15,908           | 36,422           | 35,975           | 367,001           | 502,230           |
| <b>Total</b>        | <b>3,686,803</b> | <b>2,069,851</b> | <b>2,142,281</b> | <b>4,232,931</b> | <b>4,207,227</b> | <b>37,661,407</b> | <b>54,000,500</b> |

**Funding Sources**

|                    | 2019             | 2020             | 2021             | 2022             | 2023             | 2024-2028         | Total             |
|--------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| Power Fund Balance | 3,686,803        | 2,069,851        | 2,142,281        | 4,232,931        | 4,207,227        | 37,661,407        | 54,000,500        |
| <b>Total</b>       | <b>3,686,803</b> | <b>2,069,851</b> | <b>2,142,281</b> | <b>4,232,931</b> | <b>4,207,227</b> | <b>37,661,407</b> | <b>54,000,500</b> |