



# Hurricane City

## Electrical Transmission and Substation Amendment to May 2025 IFFP

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# AMENDMENT

## IFFP Amendment Overview

This is an amendment to the Impact Fee Facilities Plan (IFFP) prepared in May 2025 for Hurricane City Power. The main purpose of this amendment is to update the IFFP with the addition of two substation projects. The two new substations will be 138kV-12.47kV substations. With the addition of these two new substation projects some of the previously proposed transmission line projects need to be routed differently. This affects the length of the lines and therefore the cost. The routing and cost of the transmission lines was updated in this amendment. Also, the projected completion date of Sky Mountain Substation has been moved forward to 2027.

The necessity of the two additional substations is for load growth in the south area of the city. Hurricane City is seeing heavy load growth in the south part of the city, and these additional substations are necessary to serve that load. These new substations were given the names of Future Substation 3 and Future Substation 4.

The Sky Mountain substation needs to be completed sooner than was outlined in the IFFP. This is due to a new hospital with an estimated load of 10 MW and a project year of completion date of 2027. The new hospital will be served by the Sky Mountain substation and therefore the completion of Sky Mountain substation needs to be moved forward to 2027.

## Projects

The additional substations that are added in this amendment will be installed in the 5-year planning horizon. The new substations will be operating at 138kV–12.47kV. Both substations will be a dual bay configuration, 20 MVA per bay, with one bay as a future addition. The location of Future Substation 3 is in the general vicinity of 1100 west and 3000 south. Substation 3 can help backup Three Falls Substation and Future Substation 1. Future Substation 3 is planned to be built in 2027. The location of Future Substation 4 is near the junction of SR-7 and SR-9. Future Substation 4 can help backup Three Falls Substation, Brentwood Substation, and Sky Mountain Substation once it is installed. Future Substation 4 is planned to be built in 2028.

The location of Future Substation 1 was moved further south. The transmission line to Future Substation 1 was extended by about 1.5 miles. This transmission line will also tie into Future Substation 4. The routing of the transmission line was determined from information provided by Hurricane City.

The transmission line that went from Future Substation 1 to Three Falls was shortened by 0.75 mile. This transmission line will tie into Future Substation 3.

The transmission line that tapped off the Future Substation 1 transmission line and was routed to the existing 600 North transmission line was extended by 0.3 miles. This line now goes from Future Substation 4 to the existing 600 North transmission line.

## Table Updates

The addition of the hospital load was added to the coincident-peak (“CP”) demand. Hurricane City’s updated projected CP demand between 2024 and 2033 are shown in Table 2-3.

**Table 2-3**  
**Summary of CP Demands**  
**For the Period 2023 through 2033**

Description	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Total System CP Demands (kW)	54,686	59,061	63,786	78,888	84,399	87,375	90,470	93,689	97,037	100,518

The updated summary of the recommended projects, timing and costs are shown below in Table 2-4.

**Table 2-4**  
**Summary of CFP Improvement Projects**  
**For the Period 2024 through 2033\***

Project Number	Description	Project Estimated Cost (\$)**	Estimated Timeframe	IFFP Percentage	Adjusted Project Cost
1	Replace Anticline T1	1,943,675.00	2025	59.1%	1,148,711.93
2	New 138kV line from Purgatory to Future Sub 1	7,329,545.00	2025-2027	59.1%	4,331,761.10
3	New Future Substation 1	8,132,823.00	2027	59.1%	4,806,498.39
4	New 69kV line to Sky Mountain	200,805.00	2027	59.1%	118,675.76
5	New Sky Mountain Substation	5,503,354.00	2027	59.1%	3,252,482.21
6	New Future Substation 3	8,132,823.00	2027	59.1%	4,806,498.39
7	New 138kV line from Future Sub 1 to Three Falls	2,469,220.00	2027-2028	59.1%	1,459,309.02
8	New Future Substation 4	8,132,823.00	2028	59.1%	4,806,498.39
9	Three Falls Substation Bay 2	3,728,421.00	2029	59.1%	2,203,496.81
10	New 138kV line to 600 North	998,027.00	2031	59.1%	589,833.96
11	New 138kV line from 600 North to Three Falls	1,339,409.00	2032	35.6%	476,829.60
12	Three Falls substation Bay 1 Upgrade	2,119,390.00	2032	35.6%	754,502.84
13	New 138kV line to Future Substation 2	210,848.00	2033	35.6%	75,061.89
14	New 138kV-69kV Future Substation 2	7,195,069.00	2033	35.6%	2,561,444.56
	<b>TOTAL</b>	<b>57,436,232.00</b>			<b>31,391,604.85</b>

\* Note: Project timing will vary based on actual load growth amount and location.

\*\* Values have been rounded.