

NEEDLES PUBLIC UTILITY AUTHORITY

ANNUAL BASE RATE CALCULATION SPREADSHEET - FY 2024/2025

MUST MANUALLY CALCULATE SHEET (F9)

Basic Service Charge for New Rate Year

	\$36.22
PY Non-Power Carry Forward	-\$517,948
Asset Replacement Fund Target	\$567,464
Total - Non Power Related Expenses	\$5,052,761

Power Supply with Line Losses

Total Power Supply - Sales KWHRS	85,484,672
Power Supply - Winter Hydro	6,010,368
Power Supply - Summer Hydro	15,840,384
Power Supply - Total Hydro	21,850,752
Power Supply - Non Hydro	63,633,920

Hydro Allotment/Cust

	401
	754

Power Supply Expenses

Total Power Purchased	\$7,168,051
Power Supply - Winter Hydro	\$246,006
Power Supply - Summer Hydro	\$467,902
Power Supply - Non Hydro	\$6,454,143

Cost Per Kwhr

	\$0.0839
	\$0.0409
	\$0.0295
	\$0.1014

Revenue From Other Than Power Sold

Basic Service Charge	\$1,304,226
Other Revenue	\$54,000
Total Non-Power Revenue	\$1,358,226

Total Expenses

Non-Power Related Expenses	\$5,052,761
Total Power Cost	\$7,168,051
Total Operating Expense	\$12,220,812

Cost Per Kwhr

	\$0.0839
--	----------

Use this rate for PCA Annual Base Rate for power purchased.

Rate Calculations

Rate For Non-Power Related Expenses	\$3,494,535
Winter Hydro Sales - (Oct - Feb)	\$246,006
Summer Hydro Sales - (Mar - Sept)	\$467,902
Over Hydro Allotment Sales	\$6,454,143
California Energy Efficiency Program	\$200,000

Cost Per Kwhr

	0.0409
	0.0409
	0.0295
	0.1014

Bill Rate Per Kwhr

	0.0818
	0.0704
	0.1423
	0.0023

NEEDLES PUBLIC UTILITY AUTHORITY
ANNUAL BASE RATE CALCULATION SPREADSHEET - FY 2024/25

EXPENSES	DOLLARS
O & M ⁵	\$3,087,815
Taxes*	\$15,375
Purchase Payment	\$313,233.00
Trustee Fee	\$15,134.00
Conservation Program*	\$16,667.00
Debt Service	\$682,351.00
City of Needles "Fair Share" Fee	\$672,670.00
California Energy Efficiency Program*	\$200,000.00
PY Non-Power Rate Component	\$0.0419
Power Supply Total ¹	\$7,168,051.00
Power Supply, Hydro - Winter ²	\$246,005.64
Power Supply, Hydro - Summer ³	\$467,902.00
Other Income* not adjusted for utt	\$54,000.00
Basic Service Charge PY	\$35.23
Asset Replacement Fund PY	\$552,008.00

	KWHR
Power Supply Total ¹	95,407,000
Power Supply, Hydro - Winter ²	6,708,000
Power Supply, Hydro - Summer ³	17,679,000
PY Estimated Power Sales	78,441,346
PY Actual Power Sold	90,802,879

	PERCENT
JUNE CPI %	2.80
Line Loss %	10.40
Number of Customers	3001

US West
 3 year average line loss using
 the Electric Database
 calculation.

Proposed

Sample Winter Bill - (Oct - Feb)				
Line	Description	KWH	Cost/KWH	Total
1	Basic Service Charge			\$36.22
2	Winter Hydro Allotment Usage	401	0.0818	\$32.77
3	Above Hydro Usage	1000	0.1423	\$142.31
4	CA Energy Efficiency Program	1401	0.0023	\$3.28
Total Electric Bill Charge				\$214.57
Sample Summer Bill - (Mar - Sept)				
Line	Description	KWH	Cost/KWH	Total
1	Basic Service Charge			\$36.22
2	Sumer Hydro Allotment	754	0.0704	\$53.10
3	Above Hydro Usage	1500	0.1423	\$213.46
4	CA Energy Efficiency Program	2254	0.0023	\$5.27
Total Electric Bill Charge				\$308.05

Previous

Sample Winter Bill - (Oct - Feb)				
Line	Description	KWH	Cost/KWH	Total
1	Basic Service Charge			\$32.39
2	Winter Hydro Allotment Usage	390	0.0740	\$28.86
3	Above Hydro Usage	1000	0.1638	\$163.80
4	CA Energy Efficiency Program	1390	0.0025	\$3.48
Total Electric Bill Charge				\$228.53
Sample Summer Bill - (Mar - Sept)				
Line	Description	KWH	Cost/KWH	Total
1	Basic Service Charge			\$39.39
2	Sumer Hydro Allotment	730	0.0650	\$47.45
3	Above Hydro Usage	1500	0.1638	\$245.70
4	CA Energy Efficiency Program	2230	0.0025	\$5.58
Total Electric Bill Charge				\$338.12
Difference				-\$30.07

NEEDLES PUBLIC UTILITY AUTHORITY

24-Jul

POWER COST ADJUSTMENT CALCULATION

UPCOMING PURCHASE PERIOD CALCULATION

Actual Over-Hydro Purchased Kwhr	9,500,000	**
Actual Over-Hydro Purchased Dollars	\$600,000	**
Over-Hydro Annual Base Rate Component	\$0.0978	
Line Loss Percentage	8.40	
Current Over-Hydro Rate	\$0.1399	
Non-Power Expense Rate Component	\$0.0242	

Over-Hydro with Line Losses	8,702,000
Over-Hydro Cost/Kwhr	\$0.0689
Difference from Base Rate	-\$0.0289
Revenue Expected from Base Rate	\$851,056
Revenue Difference from Base	\$251,056
PCA Fund Adjustment	\$95,000
Amount to off set New PCA Fund Balance	\$346,056

OVER-HYDRO RATE

New Over-Hydro Rate Component	\$0.0689
New Over-Hydro Rate	\$0.0931

Upcoming Term: August	9,500,000
Total Over-Hydro Kwhr	\$600,000
Total Over-Hydro Purchase + Spot Estimate	

PREVIOUS PERIOD REVENUE GENERATED

Actual Over-Hydro KWH	9,397,720
Actual Over-Hydro Dollars	\$879,260
Over-Hydro Prior Period Rate Power Component	\$0.1044

Over-Hydro KWH w/ Line Loss	8,608,312
Over-Hydro Revenue Generated for the Period	\$898,708
Revenue Difference from Required	\$19,448

PREVIOUS PERIOD REVENUE ACTUAL BASE RATE

Over-Hydro with Line Losses	8,608,312
Over-Hydro Cost/Kwhr	\$0.1021
Difference from Base Rate	\$0.0043
Revenue Expected from Base Rate	\$841,893
Revenue Difference from Base	-37,367

BALANCING FUND

Previous PCA Period Balance	\$509,036
PCA Collected	\$93,977
** New PCA Fund Balance	\$622,462

Previous Period Consumption:
 July Over-Hydro Consumption :
 Cost:
 Term Purchase: \$739,298.65 Spot Purchase: \$22,045 Exchanges: \$103,658
 Transmission & Regulation Cost: (90% over hydro)
 Total Over Hydro Costs: \$879,260

NEEDLES PUBLIC UTILITY AUTHORITY

24-Jun

POWER COST ADJUSTMENT CALCULATION

UPCOMING PURCHASE PERIOD CALCULATION

Actual Over-Hydro Purchased Kwhr	9,397,750	**
Actual Over-Hydro Purchased Dollars	\$550,000	**
Over-Hydro Annual Base Rate Component	\$0.0978	
Line Loss Percentage	8.40	
Current Over-Hydro Rate	\$0.1399	
Non-Power Expense Rate Component	\$0.0242	

Over-Hydro with Line Losses	8,608,339
Over-Hydro Cost/Kwhr	\$0.0639
Difference from Base Rate	-\$0.0339
Revenue Expected from Base Rate	\$841,896
Revenue Difference from Base	\$291,896
PCA Fund Adjustment	\$93,978
Amount to off set New PCA Fund Balance	\$385,873

OVER-HYDRO RATE

New Over-Hydro Rate Component	\$0.0639
New Over-Hydro Rate	\$0.0881

Upcoming Term: July	9,300,000
Total Over-Hydro Kwhr	\$550,000
Total Over-Hydro Purchase + Spot Estimate	

PREVIOUS PERIOD REVENUE GENERATED

Actual Over-Hydro KWH	7,459,366
Actual Over-Hydro Dollars	\$563,009
Over-Hydro Prior Period Rate Power Component	\$0.1044

Over-Hydro KWH w/ Line Loss	6,832,779
Over-Hydro Revenue Generated for the Period	\$713,342
Revenue Difference from Required	\$150,333

PREVIOUS PERIOD REVENUE ACTUAL BASE RATE

Over-Hydro with Line Losses	6,832,779
Over-Hydro Cost/Kwhr	\$0.0824
Difference from Base Rate	-\$0.0154
Revenue Expected from Base Rate	\$668,246
Revenue Difference from Base	105,237

BALANCING FUND

Previous PCA Period Balance	\$284,109
PCA Collected	\$74,594
** New PCA Fund Balance	\$509,036

Previous Period Consumption:
 June Over-Hydro Consumption :
 Cost:
 Term Purchase: \$443,010 Spot Purchase: \$0.00 Exchanges: \$107,021.52
 Transmission & Regulation Cost: (85% over hydro)
 Total Over Hydro Costs: \$563,009