

Staff Report

TO: Board of Directors

FROM: Keane Sommers, P.E., Director of Power Systems

DATE: December 13, 2023

SUBJECT: Hydroelectric Department Financial Overview

_____ HYDROELECTRIC

RECOMMENDATION:

Receive an informational presentation and conduct a workshop on the finances of the Hydroelectric Department.

BACKGROUND:

Staff will present an overview of the financial history of the Hydroelectric Department. The presentation will provide a brief description of historic finances, a summary of revenue/expenditures by powerhouse, an overview of a model quantifying the subsidy the Hydroelectric Department provides to water rate payers, and a discussion the future of the Department.

BUDGETARY IMPACT:

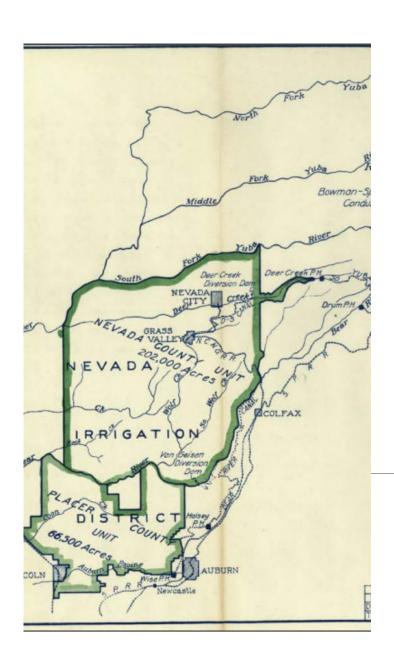
There is no budgetary impact associated with this item.

Attachments (3)

Presentation

Annotated Presentation

Powerhouse Expense Summary Tables



Hydroelectric Financial Workshop

DECEMBER 13, 2023





Outline

Part 1 – Financials by the Year

- 1982 to 2012
- 2014 to 2022
- Transfers Out Water / Recreation

Part 2 – Financials by Powerhouse

Part 3 – Water Delivery Related Expenses

Part 4 – The Future

- Key Risks
- Future Consideration
- Recommendations

Facility	Nameplate Capacity (MW)	2018-2022 Year Historic Average Annual Output (MWh)	Year Constructed
Chicago Park	39	104,203	1965
Dutch Flat #2	24.57	47,417	1965
Rollins	12.15	54,732	1980
Deer Creek	5.5	18,548	1908
Bowman	3.6	10,262	1986
Combie South	1.5	4,458	1984
Scotts Flat	0.85	4,701	1984
Combie North	0.522	1,526	2010
Total	87.692	245,847	

Department Overview

30 Full Time Staff in 2024

<u>Dams</u>

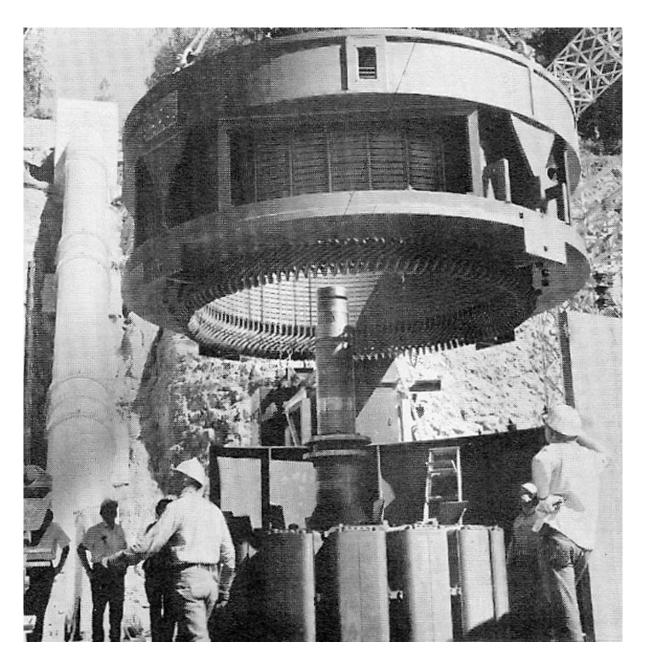
13 FERC jurisdictional dams

Water Conveyances

5 Major Conveyances, 8 Diversions

Power Transmission Line

9.0 miles



Part 1: Financials by the Year

Financial History
Historic Revenue and
Expenses



Historic Revenue Structure Yuba-Bear Project

Electricity produced by the Yuba-Bear Project was sold to PG&E for:

- Debt service on bonds
- Costs associated with maintenance and operation of the projects
- Ended July 1, 2013

In addition to the above:

Rollins

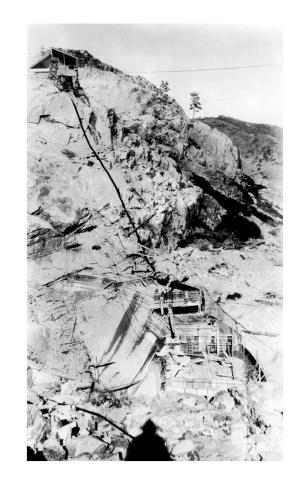
- Four mills per kilowatt hour minimum (1 mill per kilowatt hour (kWh) equals 1 dollar per megawatt hour (MWh)
- Fluctuated with rates for qualifying facilities appointed by the CPUC
- Revenue was provided to water fund
- Ended July 1, 2013

Bowman

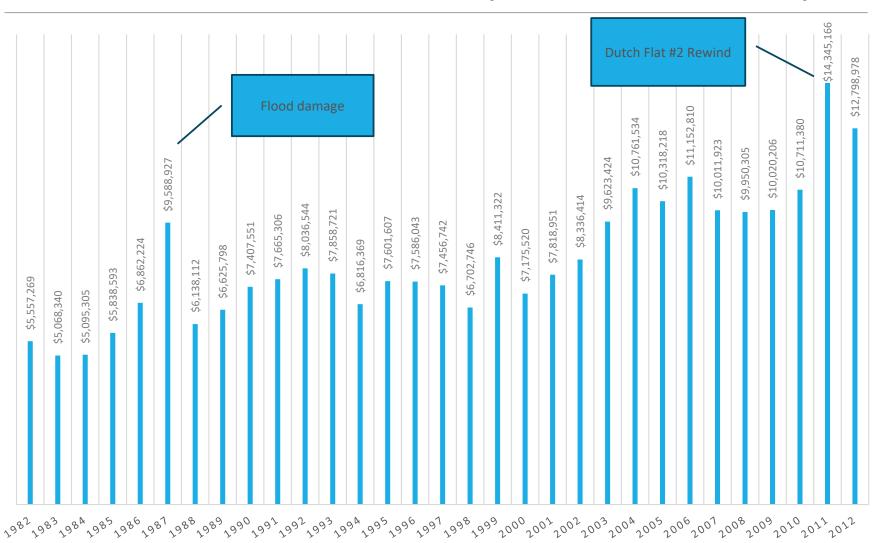
- Since 1987 Standard Offer Power Purchase Agreement
- Revenue was provided to water fund
- Ended December 31, 2016

1983 Revenue Example

Category	Revenue
Debt Service	\$3,499,054
Operations and Maintenance	\$1,162,046
Yuba Bear Subtotal	\$4,661,100
Rollins	\$407,240
Total Electric Revenue	\$5,068,340



Electric Revenue (1982-2012)



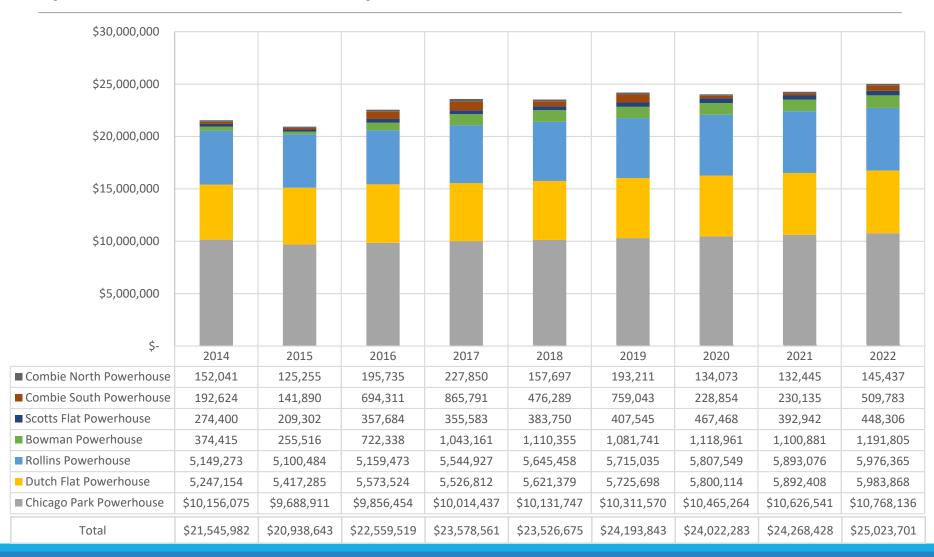
Current Revenue Structure

Facility	Power Purchase Agreement Notes	2022 Revenue
Chicago Park	PG&E, availability based, expires June 30, 2033	\$10,768,136
Dutch Flat #2	PG&E, availability based, expires June 30, 2033	\$5,983,868
Rollins	PG&E, availability based, expires June 30, 2033	\$5,976,365
Deer Creek	NCPA (City of Lodi), market based, expires December 31, 2025	N/A
Bowman	PG&E, availability based, expires June 30, 2033	\$1,191,805
Combie South	NCPA (City of Lodi), market based, expires December 31, 2025	\$509,783
Scotts Flat	RES-BCT tariff. Used to offset District usage.	\$448,306
Combie North	PG&E, fixed pricing based on output, expires October 5, 2024.	\$145,437
Total		\$25,023,701

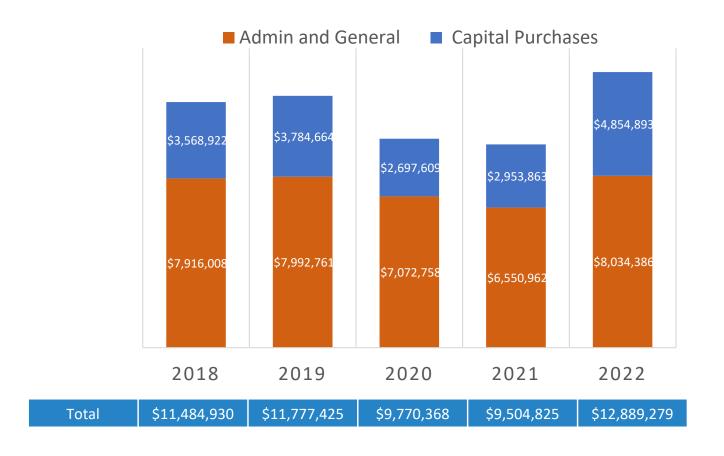
2022 Revenue

Revenue Source	Total
Various Power Purchase Agreements	
Yuba-Bear Chicago Park Dutch Flat #2 Rollins Bowman	\$10,768,136 \$5,983,868 \$5,976,365 \$1,191,805
Combie North	\$145,437
Combie South	\$509,783
Deer Creek	N/A
Renewable Energy Self-Generation Bill Credit Transfer (RES-Beneration Bill Credit Tra	<u>CT)</u>
Scotts Flat	\$448,306
Hydro Support Services	
South Sutter Water District	\$312,822
Bowman Transmission Line (57.14% Cost Reimbursement)	
Grey Rock Hydro (Haypress Powerhouses)	\$68,031
<u>Total</u>	\$25,404,553

Powerhouse Electric Revenue (2014-2022)



Hydroelectric Department Expenses 2018-2022



Notes: 12

Does not include transfers out.

Recent Hydro Revenue Uses Under Current PPAs (Beyond Hydro O&M and Capital)

Early Years

Repay Water Fund for loan for relicensing costs

Build reserves

 Operating, Capital, Relicensing, Insurance and Catastrophic

More Recently

Transfer to fund Water and Recreation

Transfers Out:

2018 - \$4,432,539

2019 – \$12,662,068

2020 - \$14,144,500

2021 - \$6,809,073

2022 - \$6,585,888

2023 - \$5,807,437*

*Budgeted

2024 Budgeted

Fund 70: \$4,322,732

Fund 30: \$1,700,000

Fund 10: \$1,209,269

Total: \$7,242,001

Summary

	2018	2019	2020	2021	2022
Total Revenue	\$23,526,675	\$24,193,843	\$24,022,283	\$24,268,428	\$25,023,701
Operating Expenses	\$7,916,008	\$7,992,761	\$7,072,758	\$6,550,962	\$8,034,386
Capital Purchases	\$3,568,922	\$3,784,664	\$2,697,609	\$2,953,863	\$4,854,893
Transfers Out	\$4,432,539	\$12,662,068	\$14,144,500	\$6,809,073	\$6,585,888
Net	\$7,609,206	\$ (245,650)	\$107,415	\$7,954,530	\$5,548,534



Part 2: Financials by Powerhouse

Revenue & Expenses

Future Projects and Areas of Concern

Methodology

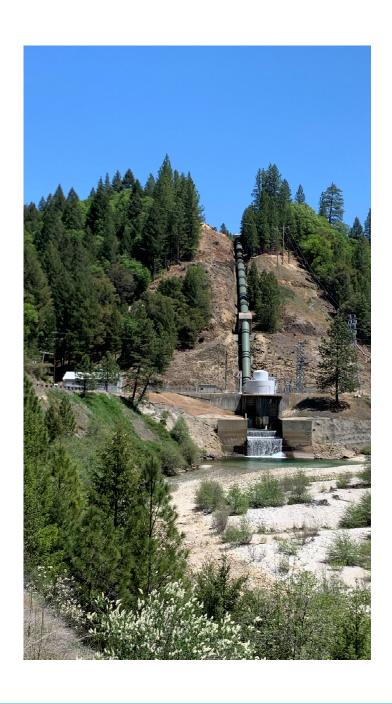
- ► Facility codes associated with a powerhouse were identified and a standard SQL transaction analysis report of all expenses from 2018-2022 was created and used to pull general ledger expenses
- ▶ The master project list spreadsheet was reviewed and projects expected to have charges associated with a powerhouse were identified and a standard SQL transaction analysis report of all expenses from 2018-2022 was created and used to pull project ledger expenses
- Custom reports were developed to isolate operating costs
- Some projects are attributable to multiple facilities and were split accordingly

Caveats

- ▶ Reports are only as good as expenses were coded. Data should not be used to compare subcomponents of a powerhouse.
- ▶ Reports are a subset of the Fund 50/55 expenditures and are very difficult to tie out to totals. Make sure to compare apples to apples.
- ▶ No allocation for overhead (Fund 70, Fund 30, Hydro Administration, training, etc.)
- ▶ Reports are difficult to replicate and susceptible to error

Chicago Park Revenue/Expenses

			2018		2019		2020		2021		2022		Average
Revenue		\$ 10	,131,747	\$	10,311,570	\$	10,465,264	\$	10,626,541	\$	10,768,136	\$	10,460,652
ating Expenses 57300	Chicago Park Powerhouse	\$	E41 604	ė	E04 4E0	ċ	626 642	Ś	E94 102	ċ	656 750		
	Dutch Flat #2 Afterbay		541,694	?	594,450	کِ	626,643		584,102	 خ	656,759		
57301	Chicago Park Flume	· · · · · · · · · · · · · · · · · · ·	103,399	?	61,918	?	36,763	\$	64,286	.	60,858		
57302	Little York Basin	. <u>\$</u>	17,245	}	59,692	\$	98,957	\$	44,995	٠٠٠٠٠٠٠٠٠٠. کِ	104,263		
57303	Chicago Park Forebay		634	}	14,711		4,216	\$	4,025	٠٠٠٠٠٠٠٠	12,492		
57304	,		2,149	\$	3,903	\$	27,915	\$	45,206	\$	17,336		
	Subtotal Operating Expenses	es \$	665,121	\$	734,675	\$	794,494	\$	742,614	\$	851,707	Ş	757,722
ct Expenses													
6877	CPPH Access Road	\$	70,322	Ś	35,529	\$	135,522	\$	84,662	\$	29,183		
2484	CPPH Standby Generator		: 3,355			٠٠٠٠٠٠	19,417			········	401		
2471	CPPH Electrical Drawing						50,772						
2006	CHPH Switchboard/Relays	······································	48,904	¢	1,437	<u>*</u>							
2133	CPPH Rough Operating Zone	٠٠٠٠٠٠٠	203,057										
2164	CPPH Fire Suppression		8,645		153.349	٠٠٠٠٠٠	174.223		171.542	ċ	12.176		
	CPPH Balance of Plant PLC	s	396,409	ک		ک	1/4,223	ک	1/1,342		12,170		
2165	CPPH Switchgear		330,403	?	155								
2352 2402	CPPH Instrumentation				3,216	\$ \$	551 61,271		300,005		1,370		
	CPPH Tailrace Repair			?	3,216	?	01,2/1	·····			1,370		
2551	CPPH CAISO Meter Reset								20				
2549	CPPH Turbine Overhaul					\$	147	Ş	738				
2353								Ş	15,260	Ş	51,644		
2362	CPPH Transformer							Ş	14,660	\$	48,324		
2383	CPPH Rewind									\$	52,840		
2598	CPPH RTU Replacement									\$	3,940		
2006-1	CPPH Relays - Legal			\$	1,735	\$	384						
2053	DFAB Low Level Outlet	. \$	91,905	\$	18,726								
2386	CP Flume Drain					\$	98						
2511	CP Forebay/Canal Lining					\$	22,438	\$	2,870				
	Subtotal Project Expenses	es \$	819,244	\$	214,147	\$	464,825	\$	589,757	\$	199,878	\$	457,570
ated Dusingt Survey													
ated Project Expenses	SCADA Upgrade (25%)	ė	E0 027	ė	46 402	ċ	240						
201502 1039	SCADA Opgrade (25%) SCADA Upgrade Study (25%)	\$ \$	50,037 57	ک	46,493 981	\$ \$	348 64						
	Electric Reliability Services (50%)		5/		981			ې	17.420		2 500		
2469			44.577			\$	31,424	\$	17,420	\$	2,568		
6927	Lower Division Prop Acq (50%) Lower Division Prop Acq (50%)	<u>\$</u>	14,577	غ	7,172)	4,984	\$	803				
201308		\$	10,650	\$	63	\$	4,659	\$	18		3 500		20
	Subtotal Allocated Project Expenses	\$	75,321	\$	54,708	\$	41,479	\$	18,242	\$	2,568	\$	38,464
Expenses		\$ 1	1,559,686	\$	1,003,530	\$	1,300,798	\$	1,350,614	\$	1,054,153	\$	1,253,756
Revenue		\$ 8.5	572,061		9,308,040	Ś	9,164,466	Ś	9,275,927		9,713,983		9,206,895



Chicago Park

Future Projects / Concerns

Projects in 5 Year Capital Improvement Plan

- Station batteries complete in late 2023/early 2024 (some batteries arrived damaged from supplier)
- RTU replacement complete during September 2024 outage
- Powerhouse overhaul
 - 2026 outage for a total of 8 weeks
 - Current cost estimate is \$21.7 million

Longer Term Planning

Tailrace and forebay erosion

Dutch Flat #2 Revenue/Expenses

			2018	2019	2020	2021	2022	Average
ss Revenue		\$	5,621,379	\$ 5,725,698	\$ 5,800,114	\$ 5,892,408	\$ 5,983,868	\$ 5,804,6
erating Expenses								
57200	Dutch Flat #2 Powerhouse	\$	545,477	\$ 463,253	\$ 582,358	\$ 481,770	\$ 483,143	
57210	Dutch Flat #2 Flume	\$	37,356	\$ 147,561	\$ 105,309	\$ 98,244	\$ 74,796	
57211	Dutch Flat #2 Forebay	\$	40,213	\$ 43,562	\$ 49,336	\$ 41,660	\$ 125,727	
	Subtotal Operating Expense	s \$	623,046	\$ 654,376	\$ 737,003	\$ 621,674	\$ 683,666	663,9
ject Expenses								
2478	DFPH Electrical Drawing			 	\$ 41,756	\$ 17,322	\$ 5,548	
2348	DFPH Balance of Plant PLC				\$ 362,874	\$ 8,208		
2483	DFPH Standby Generator				\$ 589	\$ 15,227	\$ 20,419	
2355	DFPH-DFFB Fiber Optic				\$ 28,066			
2544	DFPH Cooling Water Upgrade						\$ 17,183	
2240	DFPH Fire Suppression Upgrade	\$	1,744	\$ 560	\$ 17,505	\$ 8,706	\$ 2,232	
2229	DF Flume Footing Repairs	\$	6,182	\$ 342,410				
	Subtotal Project Expense	s \$	7,925	\$ 342,969	\$ 450,790	\$ 49,462	\$ 45,382	\$ 179,3
cated Project Exp	enses							
201502	SCADA Upgrade (25%)	\$	50,037	\$ 46,493	\$ 348	 		
1039	SCADA Upgrade Study (25%)	\$	57	\$ 981	\$ 64	\$ 2		
2469	Electric Reliability Services (50%)				\$ 31,424	\$ 17,420	\$ 2,568	
6927	Lower Division Prop Acq (50%)	\$	14,577	7,172	\$ 4,984	\$ 803	 	
201308	Lower Division Prop Acq (50%)	\$	10,650	\$ 63	\$ 4,659	\$ 18	 	
	Subtotal Allocated Project Expenses	\$	75,321	54,708	\$ 41,479	\$ 18,242	2,568	\$ 38,4
al Expenses		\$	706,292	\$ 1,052,054	\$ 1,229,273	\$ 689,378	\$ 731,615	\$ 881,7
			4,915,087	4,673,644	4,570,841		5,252,252	4,922,971

Dutch Flat #2

Future Projects / Concerns



Projects in 5 Year Capital Improvement Plan

- Backup generator (2024)
- Liner repair upstream of Forebay
- RTU Replacement

Longer Term Planning

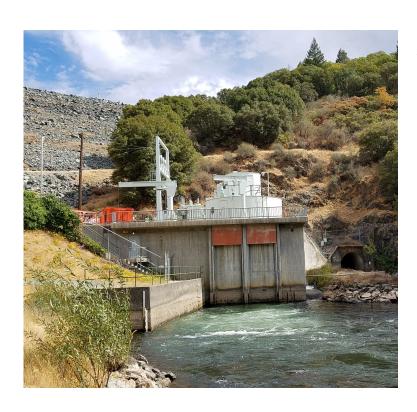
Mechanical Refurbishment (TSV, Wicket Gates, etc.)

Rollins Revenue/Expenses

				2018		2019		2020		2021		2022		Average
Gross Revenu	ıe		\$	5,645,458	\$	5,715,035	\$	5,807,549	\$	5,893,076	\$	5,976,365	\$	5,807,497
Operating Exp	oenses													
	57400	Rollins Powerhouse	\$	356,051.00	\$	402,652.06	\$	473,557.53	\$	486,964.75	\$	411,479.07		
		Subtotal Operating Expenses	\$	356,051	\$	402,652	\$	473,558	\$	486,965	\$	411,479	\$	426,141
Project Expen	ises													
	2351	RPH OCB Replacement					\$	16,927.18	\$	232,038.55	\$	269.08		
	2393	RPH Balance of Plant					\$	1,037.27	\$	323,762.63	\$	897.64		
	2392	RPH Governor Replacement									\$	272.24		
	2394	RPH Relay Protection Upgrade					\$	1,903.91	\$	32,249.03	\$	188,596.19	•	
		Subtotal Project Expenses	\$	-	\$	-	\$	19,868	\$	588,050	\$	190,035	\$	159,591
Allocated Pro	ject Expen	ses												
	201502	SCADA Upgrade (25%)	\$	50,037.41	\$	46,492.72	\$	348.20						
	1039	SCADA Upgrade Study (25%)	\$	56.85	\$	981.26		63.85	\$	1.59				
		Subtotal Allocated Project Expenses	\$	50,094	\$	47,474	\$	412	\$	2	\$	-	\$	19,596
Total Expense	26		Ś	406,145	ć	450,126	ċ	493,838	ć	1,075,017	ć	601,514	ċ	605,328
Total Expense	-5		Ų	+00,143	Ą	- 30,120	Ą	- 33,636	Y	1,0/3,01/	Ą	001,514	Ą	003,326
Net Revenu	е		\$	5,239,312	\$	5,264,909	\$	5,313,711	\$	4,818,059	\$	5,374,851	\$	5,202,169

Rollins

Future Projects / Concerns



Projects in 5 Year Capital Improvement Plan

- Governor Replacement
- RTU Replacement

Longer Term Planning

N/A

Bowman Revenue/Expenses

			2018		2019		2020		2021		2022	Average
Gross Revenue		\$	1,110,355	\$	1,081,741	\$	1,118,961	\$	1,100,881	\$	1,191,805	\$ 1,120,749
Operating Expenses												
57100	Bowman Powerhouse	\$	253,621	\$	331,624	\$	343,497	\$	385,182	\$	266,503	
57111	Bowman Transmission Line (42.86%)	\$	42,947	\$	134,168	\$	87,216	\$	37,040	\$	44,968	
	Subtotal Operating Expense	es\$	296,568	\$	465,791	\$	430,713	\$	422,222	\$	311,471	\$ 385,353
Project Expenses	DDU G				2 200		425.226					
2234	BPH Governor			Ş	3,200	Ş	125,326					
2354	Bowman Intertie BRKR Rplc (42.86%)					Ş	1,645	. Ş	794	Ş	131	
2556	JAN-21 BTL Wind Storm Rpr (42.86%)							\$	57,663			
	Subtotal Project Expense	es\$	-	\$	3,200	\$	126,971	\$	58,457	\$	131	\$ 37,752
Allocated Project Exper	ises											
N/A	N/A											
	Subtotal Allocated Project Expenses	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Total Expenses		\$	296,568	\$	468,991	\$	557,683	\$	480,679	\$	311,602	\$ 423,105
			,								,	, , , , ,
Net Revenue		\$	813,787	\$	612,750	\$	561,278	\$	620,202	\$	880,203	\$ 697,644





Bowman

Future Projects / Concerns

Projects in 5 Year Capital Improvement Plan

Intertie Breaker Replacement (42.68%)

Longer Term Planning

- Automation of canal headgate and improved remote operation capability
- Transmission line poles to be evaluated in late
 2023 to mid 2024

Combie South Revenue/Expenses

			2018	2019	2020	2021	2022	Average
Gross Revenue		\$	476,289	\$ 759,043	\$ 228,854	\$ 230,135	\$ 509,783	\$ 440,821
Operating Expenses								
57700	Combie South Powerhouse	\$	177,522	\$ 181,639	\$ 246,225	\$ 204,270	\$ 262,102	
	Subtotal Operating Expens	es \$	177,522	\$ 181,639	\$ 246,225	\$ 204,270	\$ 262,102	\$ 214,351
Project Expenses								
2163	CSPH Trash Rack	\$	812,576	\$ 1,407				
2168	CSPH Electrical Upgrade	\$	27,675	\$ 14,148	\$ 155,541	\$ 95,636	\$ 9,138	
2554	CSPH Fire Detection Upgrade					\$ 21,593	\$ 6,266	
2210	CSPH CAISO Mtr/Swtchgr	\$	7,693	\$ 146,002	\$ 48,239	 	 	
	Subtotal Project Expens	es\$	847,943	\$ 161,557	\$ 203,780	\$ 117,229	\$ 15,404	\$ 269,183
Allocated Project Exper	nses							
N/A	N/A							
	Subtotal Allocated Project Expenses	\$	-	\$ -	\$ -	\$ -	\$ - 9	\$ -
Total Expenses		\$	1,025,465	\$ 343,196	\$ 450,005	\$ 321,499	\$ 277,506	\$ 483,534
Net Revenue		\$	(549,176)	\$ 415,847	\$ (221,151)	\$ (91,364)	\$ 232,278	\$ (42,713)

Combie South

Future Projects / Concerns



Projects in 5 Year Capital Improvement Plan

N/A

Longer Term Planning

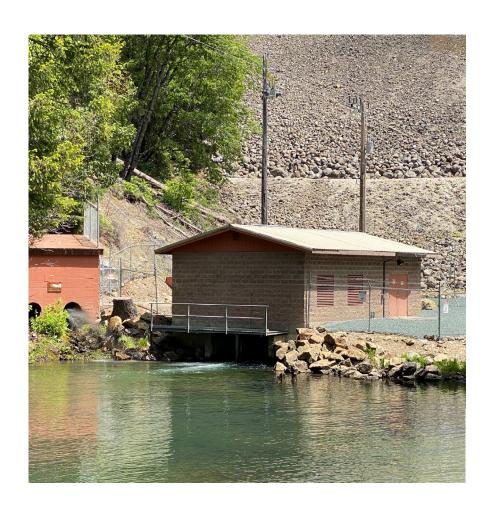
- Recent profitability impacted by large capital projects in 2018 and 2020
- Powerhouse is "run-of-river" so revenue is significantly impacted by hydrology
- Future profitability could be improved by improving remote operation capabilities
- Current operations result in many start/stop cycles that will impact long term maintenance requirements
- Penstock coating and corrosion is being monitored

Other Consideration

Continue to consider short term market-based power purchase agreements

Scotts Flat Revenue/Expenses

			2018	2019	2020	2021	2022	Average
Gross Revenue			\$ 383,750 \$	407,545	\$ 467,468	\$ 392,942	\$ 448,306 \$	420,002
Operating Expe	nses							
	57900	Scotts Flat Powerhouse	\$ 222,510 \$	188,507	\$ 188,065	\$ 236,919	\$ 299,511	
		Subtotal Operating Expenses	\$ 222,510 \$	188,507	188,065	236,919	299,511 \$	227,103
Project Expense	es							
	2232	SFPH Instrument Upgrade	\$ 54 \$	672		 		
	2233	SFPH Exciter Replacement	\$					
	2406	SFPH Balance of Plant PLC					\$ 17,894	
	2552	SFPH Fire Detection Upgrade				\$ 48,608	\$ 25,106	
	2470	SF PG&E 12KV Line Outage			\$ 8,567	 	 	
	2306	SFPH CAISO Meter	 \$	34,523	\$ 2,027			
		Subtotal Project Expenses	\$ 54 \$	103,971	\$ 10,594	\$ 48,608	\$ 42,999 \$	41,245
Allocated Proje	ct Expense	25						
	N/A	N/A						
		Subtotal Allocated Project Expenses	\$ - \$	-	\$ - !	\$ -	\$ -	
Total Expenses			\$ 222,565 \$	292,478	\$ 198,659	\$ 285,527	\$ 342,510 \$	268,348
Net Revenue			\$ 161,186 \$	115,068	\$ 268,809	\$ 107,415	\$ 105,796 \$	151,655



Scotts Flat

Future Projects / Concerns

Projects in 5 Year Capital Improvement Plan

Penstock Pipe Seismic Upgrade

Longer Term Planning

 Future profitability could be improved by improving remote operation capabilities

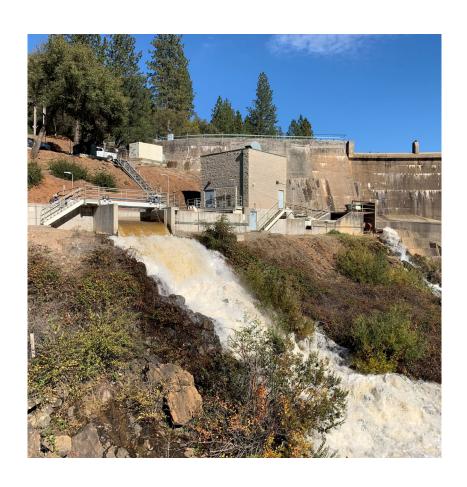
Other Considerations

 Operations would be required even without powerhouse. Historic Operations only costs below.

2018	2019	2020	2021	2022
\$86,188	\$93,091	\$58,949	\$87,544	\$86,454

Combie North Revenue/Expenses

			2018	2019		2020	2021		2022	Average
Gross Revenue		\$	157,697	\$ 193	211 \$	134,073	\$ 132,	445 \$	145,437	\$ 152,573
Operating Expenses										
Operating Expenses 57600	Combie North Powerhouse	\$	137,541	\$ 138	361 \$	108,240	\$ 117,	920 \$	145,456	
	Subtotal Operating Expens	ses\$	137,541	\$ 138	361 \$	108,240	\$ 117,	920 \$	145,456	\$ 129,504
Project Expenses										
2553	CNPH Fire Detection Upgrade						\$ 9,	368 \$	6,545	
2581	CNPH Capacitor Bank Upgrade						\$	148 \$	1,544	
	Subtotal Project Expens	ses\$	-	\$	- \$	-	\$ 9,	516 \$	8,089	\$ 3,521
Allocated Project Expense	ns.									
N/A	N/A									
	Subtotal Allocated Project Expenses	\$	-	\$	- \$	-	\$	- \$	-	\$ -
Total Expenses		\$	137,541	\$ 138	361 \$	108,240	\$ 127,	437 \$	153,546	\$ 133,025
Net Revenue		\$	20,156	\$ 54,8	49 \$	25,833	\$ 5,00	8 \$	(8,108)	\$ 19,548



Combie North Future Projects / Concerns

Projects in 5 Year Capital Improvement Plan

• N/A

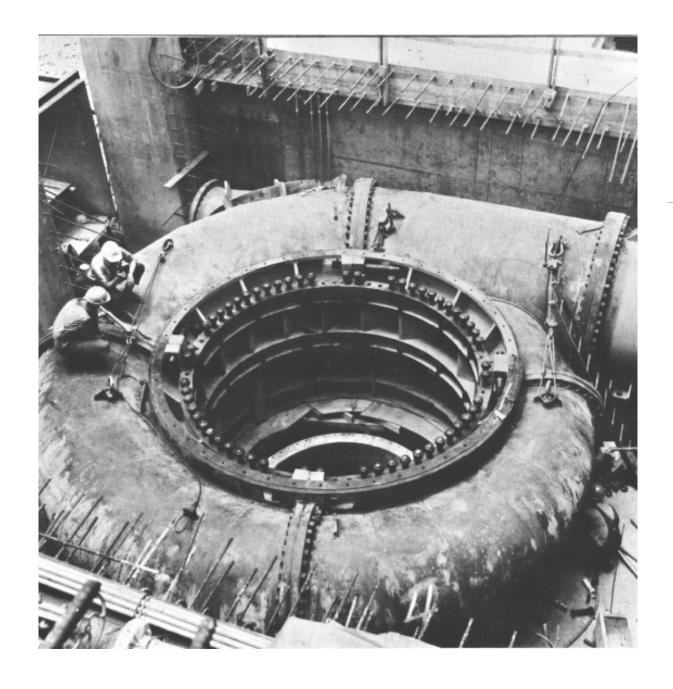
Longer Term Planning

- Powerhouse is experiencing recent failures in ancillary equipment that is negatively impacting generation (capacitors, actuators, etc)
- PPA expiration requires meter upgrade. Estimated capital cost is \$165,000 including internal labor.
- Under new PPA average revenue is expected to average \$109,000 annually
- Need to consider other sales options
 - RES-BCT would require partnership with external agencies
 - Cryptocurrency
 - Hydrogen generation
- Future profitability could be improved by improving remote operation capabilities

Other Considerations

 Operations would be required even without powerhouse. Historic Operations only costs below.

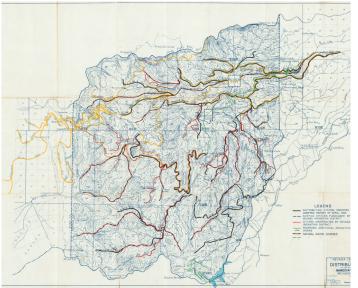
2018	2019	2020	2021	2022
\$70,930	\$53,417	\$39,938	\$53,985	\$54,785



Part 3: Water Delivery Related Expenses

Quantify Hydro Subsidy to Water Ratepayers





Current Water Subsidy

Question:

 If NID had never built the powerhouses, how much would ratepayers have to fund to operate and maintain the system of dams and conveyances necessary to deliver water to, and store water in, the lower division?

Methodology:

- Line by line review of the 2023 budget.
 - Water (cost would exist even if the powerhouses did not, e.g. DSOD fees, expenses on Bowman-Spaulding Canal)
 - Power (expense is related entirely to power function of Department, e.g. FERC, NERC)

Position	2023 Budget	Water (Would Exist Without Power Generation)
Hydro Administ	tration	
Associate Engineer	1	1
Senior Engineer Dam Safety	1	1
Project Manager	1	0.5
Hydroelectric Compliance Analyst	1	0
Hydroelectric Compliance Technician	1	0.5
Administrative Analyst	1	0.5
Director of Power Systems	1	0
Su	btotal 7	3.5

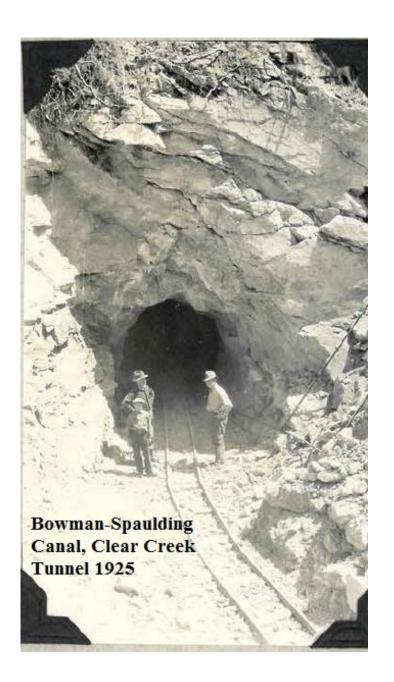
Hydro Operations					
Hydroelectric Water Systems Operator		3	3		
Hydroelectric Generation Superintenant		1	0		
Senior Hydroelectric Plant Operator		2	0		
Hydroelectric Plant Operator		4	0		
Senior Hydrographer		1	1		
	Subtotal	11	4		

Hydro Maint	tenance		
Hydroelectric Compliance & Protection Systems Specia	list	1	0
Hydroelectric Systems Technician		1	0
Supervising Electrical Systems Techician		1	0
Hydroelectric Communication Technician		2	0.5
Hydroelectric Electrical Machinist		2	0
Hydroelectric Maintenance Tech		3	2
Utility Worker		1	3
Senior Hydroelectric Systems Technican		1	0
Senior Hydroelectric Maintenance Technican		1	1
Supervising Mechanical/Civil Foreman		1	1
Hydroelectric Maintenance Superintenant		1	0
Senior Hydroelectric Electric Machinist		1	0
	Subtotal	16	7.5
	Total	34	15

Labor Breakdown

50112-52608: FED/ST/CO FEES	2023 Budget (\$)	Water (Would Exist Without Power Generation (\$))	Power (Attributable Solely to Power Generation (\$))	
Water Rights Fees	150,000	75,442	74,558	
FERC Admin Fees	131,250	-	131,250	
FERC Land Fees	183,750	183,750	-	
Hazardous Waste Fees	5,000	-	5,000	
SYC/DCPH Taxes	200,000	200,000	-	
USDA Forest Service	10,000	10,000	-	
USGS	76,650	-	76,650	
CA Water Resources Dam Fees	483,000	421,000	62,000	
Other Fees (WREGIS, DMV, CAISO, FCC)	5,000	2,000	3,000	
Total	1,244,650	892,192	352,458	

Sample Breakdown of Costs



Results

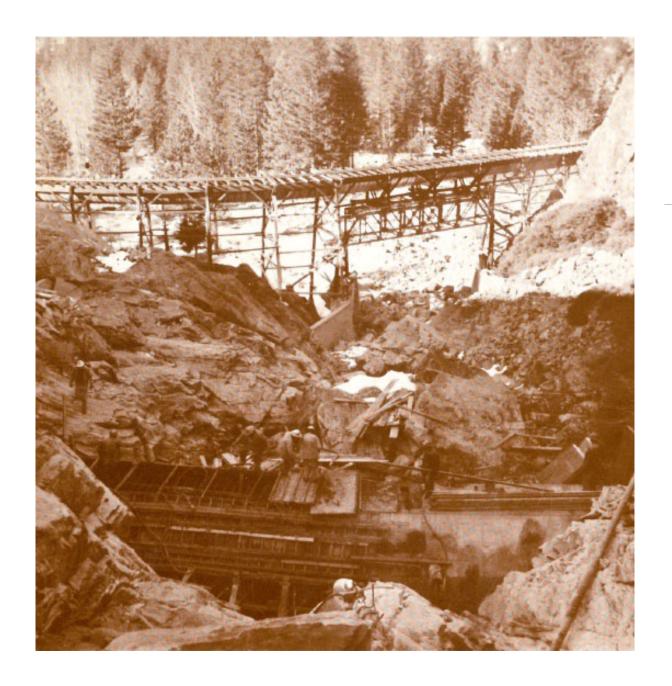
Little or no change to employee counts associated with the Board, Administration, Human Resources, Finance, Safety, Communications, Purchasing

 Likely some possibility of reduction in Information Technology, Engineering, Fleet

Eliminates payment to Fund 70 with little reduction to overall Fund 70 costs

If NID had never built the powerhouses, water ratepayers would have had to budget \$12,636,143 in 2023 to operate and maintain the system of dams and conveyances necessary to deliver water to, and store water in, the lower division.

Similar amounts would be included in all future budgets



Part 4: The Future

Key Risks

Future Considerations

Recommendations

Key Risks

People and Training

- Attrition:
 - 2018 2022 = 7-16% attrition rate
 - Approximately 22% of department was eligible to retire at beginning of 2023
- Succession Planning: Recruiting problems makes succession planning critical
- Staffing Levels: PCWA, SFWP, and YWA average 5 people per facility (dam or powerhouse). NID averages 2 (excludes 60kV line, diversions, and SYC/DCPH).

Regulatory Environment

- Unimpaired flows
- Relicensing
- Increasing regulatory requirements
 - Dam Safety
 - Aquatic Invasive Species
 - NERC

Key Risks

Infrastructure & Technology

- Increasing IT/OT Demand
- Maintenance Tracking
- OT Workload and Staffing
- Cybersecurity
- Physical Security

Operating Environment

- Capacity Planning Capital Projects
- Portfolio Growth (Deer Creek & South Yuba Canal)
- Climate Change

Electricity Revenue

• Supply chain constraints and inflationary factors have placed upward pressure on installed cost of competing electricity generation resources

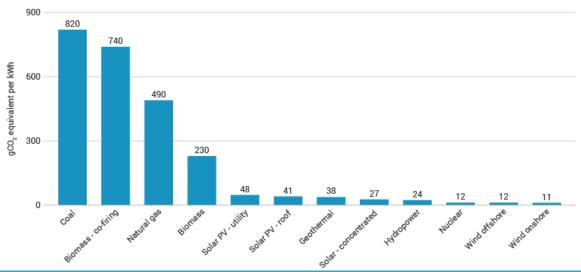
Future Considerations

U.S. Department of Energy – Office of Energy Efficiency & Renewable Energy – August 24, 2023

- Key to Resilience in Extreme Weather
- Grid Recovery "Black Start"
- Key to Energy Independence and Local Jobs

United Nations (UN) Intergovernmental Panel on Climate Change (IPCC)

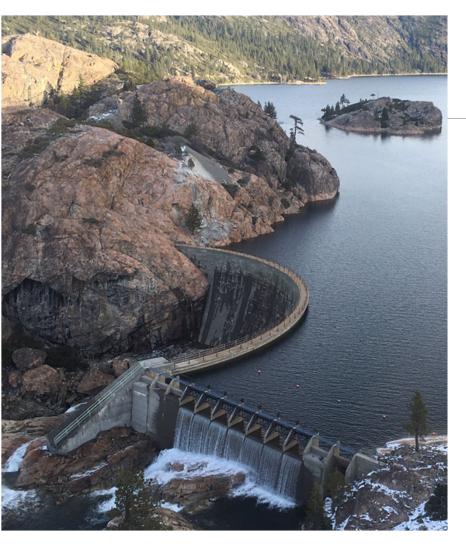
 On a life-cycle basis, hydropower is among the lowest producers of CO2 equivalent per kWh of electricity produced



Future Considerations

Market Trends

- Karbone October 31, 2023 CAISO Summary
 - 2023 PCC1 transactions continued to climb, hitting a reported all time high peak of Index + \$74.00 this month, an increase of \$4.00 from September.
 - Fears do exist among some load servers that the increase in RPS procurement costs and seeming impossibility of finding sufficient supply, coupled with similar trends in the RA market, will lead to either regulatory intervention (which could undermine the efficacy of both programs), excessively high power rates, or even the failure of some load servers over time.
- CAISO Q2 2023 Report on Market Issues and Performance 11/16/2023
 - Natural gas prices fell from extraordinarily high levels in December, averaging less than Q2 2022. Average gas prices at Henry Hub, the national index, were less than one third of prices in the same quarter of last year, while prices at both California hubs fell to less than 60 percent (Figure E.1). This resulted in lower system marginal energy prices across the market.
 - Prices were significantly lower than the same quarter of 2022 (Figure E.2). Day-ahead and real-time prices fell by half in most areas due to lower natural gas prices and higher renewable generation.
 - Hydroelectric generation almost doubled, substituting for both natural gas generation and lower net imports. Hydroelectric generation was higher than 2020, 2021, or 2022.



Recommendations

Identify and develop relationships with consultants and vendors to begin early planning for Yuba-Bear Power Purchase Agreement

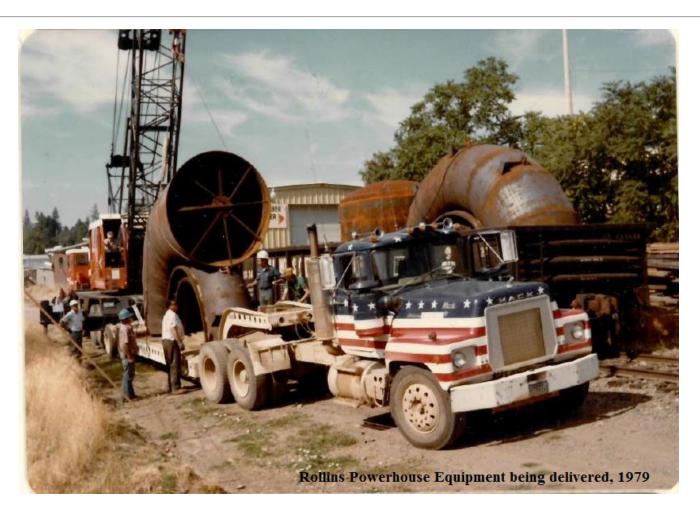
Pilot alternative sales models at Combie North Powerhouse

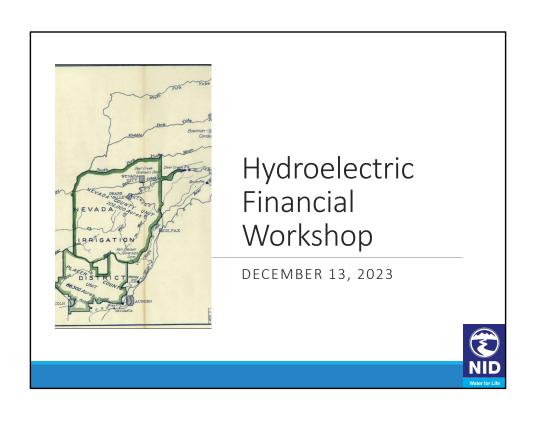
Continue progress on Hydro Master Plan as identified in NID Strategic Plan (due by end of 2025)

Continue coordination with IT on IT/OT Master Plan

Regularly monitor and update risks and strategies used to mitigate them

Questions and Discussion







Outline

Part 1 – Financials by the Year

- 1982 to 2012
- 2014 to 2022
- Transfers Out Water / Recreation

Part 2 – Financials by Powerhouse

Part 3 – Water Delivery Related Expenses

Part 4 – The Future

- Key Risks
- Future Consideration
- Recommendations

This slide provides an outline of the presentation. The year 2013 was excluded from all financial analyses because it was the transition year between the Partnership Agreement with Pacific Gas & Electric (PG&E) and the current Yuba-Bear Power Purchase Agreement (PPA). With the exception of the Bowman Powerhouse the transition occurred on July 1, 2013. The Bowman Powerhouse was converted to the PPA on January 1, 2017.

Facility	Nameplate Capacity (MW)	2018-2022 Year Historic Average Annual Output (MWh)	Year Constructed
Chicago Park	39	104,203	1965
Dutch Flat #2	24.57	47,417	1965
Rollins	12.15	54,732	1980
Deer Creek	5.5	18,548	1908
Bowman	3.6	10,262	1986
Combie South	1.5	4,458	1984
Scotts Flat	0.85	4,701	1984
Combie North	0.522	1,526	2010
Total	87.692	245,847	

Department Overview

30 Full Time Staff in 2024

Dams

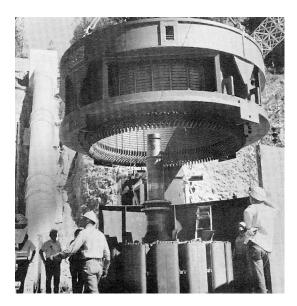
13 FERC jurisdictional dams

Water Conveyances

5 Major Conveyances, 8 Diversions

Power Transmission Line

9.0 miles



Part 1: Financials by the Year

Financial History
Historic Revenue and
Expenses



Historic Revenue Structure Yuba-Bear Project

Electricity produced by the Yuba-Bear Project was sold to PG&E for:

- · Debt service on bonds
- · Costs associated with maintenance and operation of the projects
- Ended July 1, 2013

In addition to the above:

Rollins

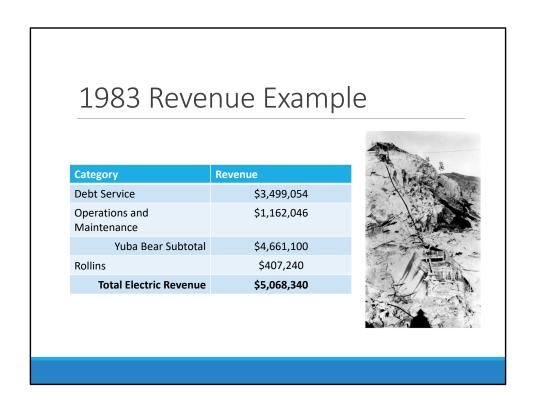
- Four mills per kilowatt hour minimum (1 mill per kilowatt hour (kWh) equals 1 dollar per megawatt hour (MWh)
- Fluctuated with rates for qualifying facilities appointed by the CPUC
- · Revenue was provided to water fund
- Ended July 1, 2013

Bowman

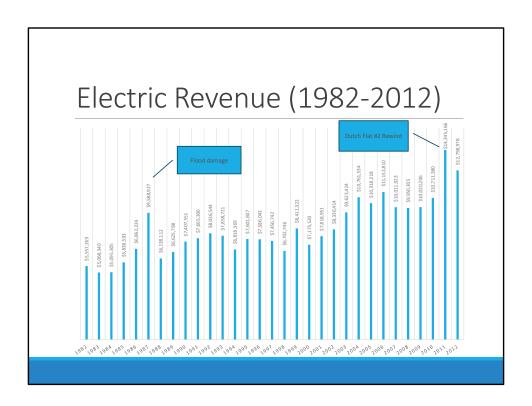
- Since 1987 Standard Offer Power Purchase Agreement
- Revenue was provided to water fund
- Ended December 31, 2016

This slide provides an overview of historic revenue from the powerhouses. The most significant source of revenue for the Department was reimbursement of operations and maintenance (O&M) and capital expenses from PG&E. Years with high expenses (such as floods or years with high capital investments) therefore appear as high revenue years. The revenue example from 1983 which is provided on a following slide is for context.

Revenue from Combie North, Combie South or Scotts Flat facilities is not included. Electricity generated at these facilities was sold directly to PG&E and revenue went directly to the Water Department. All expenses were paid for by the Water Department. Hydroelectric Department involvement was minimal.



Staff reviewed approximately 40 years of District audits in preparation for this presentation. The most recent audit that clearly quantified the historic breakdown of the components of Hydroelectric Department revenue was 1983. The relative contributions of the revenue components can be determined from this slide.



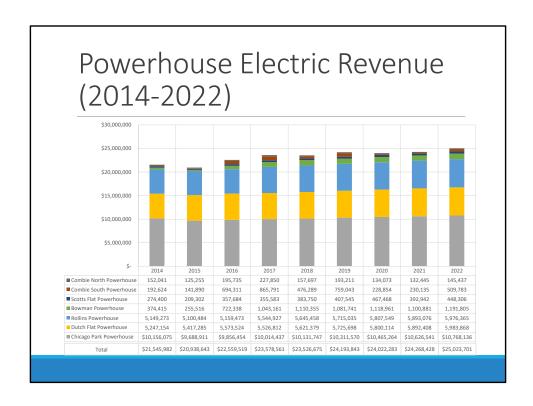
The relative impact of large O&M or capital expenses can seen from this figure.

Current Revenue Structure

Facility	Power Purchase Agreement Notes	2022 Revenue
Chicago Park	PG&E, availability based, expires June 30, 2033	\$10,768,136
Dutch Flat #2	PG&E, availability based, expires June 30, 2033	\$5,983,868
Rollins	PG&E, availability based, expires June 30, 2033	\$5,976,365
Deer Creek	NCPA (City of Lodi), market based, expires December 31, 2025	N/A
Bowman	PG&E, availability based, expires June 30, 2033	\$1,191,805
Combie South	NCPA (City of Lodi), market based, expires December 31, 2025	\$509,783
Scotts Flat	RES-BCT tariff. Used to offset District usage.	\$448,306
Combie North	PG&E, fixed pricing based on output, expires October 5, 2024.	\$145,437
Total		\$25,023,701

2022 Revenue	
Revenue Source	Total
Various Power Purchase Agreements	
Yuba-Bear Chicago Park Dutch Flat #2 Rollins Bowman Combie North Combie South	\$10,768,136 \$5,983,868 \$5,976,365 \$1,191,805 \$145,437 \$509,783
Deer Creek	N/A
Renewable Energy Self-Generation Bill Credit Transfer (RES-BCT	<u>r)</u>
Scotts Flat	\$448,306
Hydro Support Services	
South Sutter Water District	\$312,822
Bowman Transmission Line (57.14% Cost Reimbursement)	
Grey Rock Hydro (Haypress Powerhouses)	\$68,031
<u>Total</u>	\$25,404,553

Revenue from 2022 is provided as a recent example. Total Hydroelectric Department revenue includes receipts from South Sutter Water District for the O&M associated with the Camp Far West Powerhouse and Grey Rock Hydro for their portion of the Bowman Transmission Line.

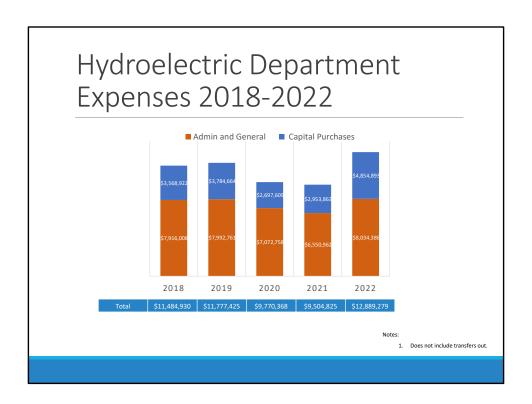


The Chicago Park Powerhouse accounts for nearly half of the District's total Hydroelectric revenue annually. Rollins and Dutch Flat #2 have the same Unit Allocation Factor in the Yuba-Bear PPA and contribute nearly equal amounts to the overall financial picture of the Department.

As the only true run-of-river powerhouse the District owns and operates, revenue from the Combie South Powerhouse is highly dependent on hydrologic conditions. For comparison purposes, 2018 was a near average water year.

The maximum revenue available under the Yuba-Bear Power Purchase Agreement increases at a rate of 1.5% annually.

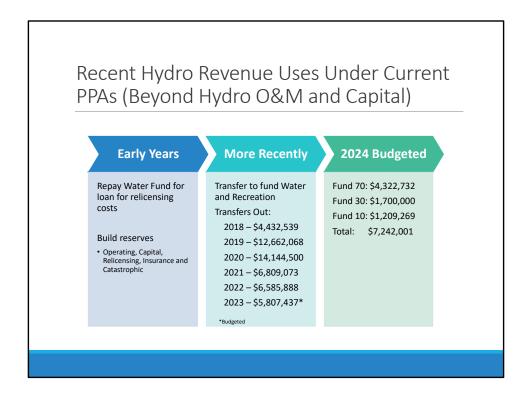
The increase in revenue at Bowman in 2017 is due to the conversion to the Yuba-Bear PPA.



The figure above does not include Other Post Employment Benefits (OPEB) or Pension Unfunded Actuarial Accrued Liability. For comparison to the current accounting system, historic Admin and General costs are similar to Fund 50 and Capital Purchases are similar to Fund 55.

Aside from a brief drop during the COVID 19 pandemic, Hydroelectric Department Administration and General Expenses have remained relatively constant over the five-year period. The increase between actual Administration and General costs between 2018 and 2022 is approximately 1.5%.

Increased capital costs in 2022 are related to costs associated with the Scotts Flat Spillway Repair and the purchase of the Whitcomb Building.



Beginning in approximately 2009 the Hydroelectric Department began borrowing money from the Water General Fund to pay for costs associated with relicensing. When the Hydroelectric Department began to earn revenue under the Yuba-Bear PPA that loan was repaid. In addition to repaying, loan reserves were built using excess revenues.

Prior to the establishment of the various Funds, transfers to Water were largely based on the Board's desire to balance the budget. The 2019 budget notes, "Following recommendations from the Water Rates Committee, the District will use a substantial amount of its' Hydroelectric reserves (\$10.4 million) this fiscal year to support rate payers during our transition to a 50% base rate." That trend continues into 2020 where the budget notes, "The Hydroelectric Fund's fiscal plan projects a negative net income of \$9.6 million as it continues to subsidize the Water Fund's operations. Ostensibly, subsidies of this magnitude are having a negative impact on hydroelectric operations by continuing to use reserves that are necessary for long-term Hydroelectric, capital projects."

Sum	nmary				
	2018	2019	2020	2021	2022
Total Revenue	\$23,526,675	\$24,193,843	\$24,022,283	\$24,268,428	\$25,023,701
Operating Expenses	\$7,916,008	\$7,992,761	\$7,072,758	\$6,550,962	\$8,034,386
Capital Purchases	\$3,568,922	\$3,784,664	\$2,697,609	\$2,953,863	\$4,854,893
Transfers Out	\$4,432,539	\$12,662,068	\$14,144,500	\$6,809,073	\$6,585,888
Net	\$7,609,206	\$ (245,650)	\$107,415	\$7,954,530	\$5,548,534
		, , ,	, ,	,	, , ,

This slide presents a summary of the data described on previous slides.



Part 2: Financials by Powerhouse

Revenue & Expenses
Future Projects and Areas
of Concern

Methodology

- ▶ Facility codes associated with a powerhouse were identified and a standard SQL transaction analysis report of all expenses from 2018-2022 was created and used to pull general ledger expenses
- ➤ The master project list spreadsheet was reviewed and projects expected to have charges associated with a powerhouse were identified and a standard SQL transaction analysis report of all expenses from 2018-2022 was created and used to pull project ledger expenses
- ▶ Custom reports were developed to isolate operating costs
- ▶ Some projects are attributable to multiple facilities and were split accordingly

Caveats

- Reports are only as good as expenses were coded. Data should not be used to compare subcomponents of a powerhouse.
- Reports are a subset of the Fund 50/55 expenditures and are very difficult to tie out to totals. Make sure to compare apples to apples.
- ▶ No allocation for overhead (Fund 70, Fund 30, Hydro Administration, training, etc.)
- ▶ Reports are difficult to replicate and susceptible to error

Committee S 10,111,747 S 10,111,747 S 10,111,747 S 10,416,754 S 10,265,541 S 10,766,136 S 10,466,754 S 10,46	2018 2019 2020	2018 2018 2019 2020 2021 2022 Average 2020 2021 2022 Average 2020 2021 2022 Average 2020 2020 2021 2022 Average 2020 20	Property Expenses	Process Proc	Project Expense Project Ex	Proper Expense Prop	Part	Part	See New New New New New New New New New N	See Revenue	See Revenue
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\$7700 \$770	1 Outor First 24 Affendary 5 103,199 5 61,391 5 54,206 5 64,206 5 60,028 1 12,000 5 00,000 1 12,000 5 104,200 5 104,	190	\$77.00 Doubt Nite & Alphroby \$ 103,379 \$ 6,1318 \$ 5,57.93 \$ 6,4288 \$ 6,0588 \$77.00 Chicago Park Pures \$ 17,245 \$ 5,967.22 \$ 9,057.75 \$ 4,057 \$ 5,105.23 \$77.00 Chicago Park Pures \$ 1,240 \$ 1,000 \$ 7,000 \$ 7,000 \$ 7,000 \$ 7,000 \$77.00 Chicago Park Pures \$ 65,121 \$ 736.07 \$ 786.07 \$ 6,058 \$ 1,100 \$77.00 Chicago Park Pures \$ 65,121 \$ 736.07 \$ 786.07 \$ 786.00 \$77.00 Chicago Park Pures \$ 65,121 \$ 736.07 \$ 786.00 \$77.00 Chicago Park Pures \$ 10,000 \$ 787.00 \$77.00 Chicago Park Pures \$ 70.00 \$77.00 Chicago Park Pures	\$77.00 Duch rise of Ambroly \$ 103,399 \$ 6,1318 \$ 5,57.53 \$ 6,4268 \$ 6,0588 \$75.00 Chicago Park Full mem \$ 1,1245 \$ 9,8678 \$ 8,0757 \$ 4,4075 \$ 10,4075 \$77.00 Chicago Park Full mem \$ 1,2245 \$ 9,8678 \$ 8,0757 \$ 4,4075 \$ 11,407 \$77.00 Chicago Park Full mem \$ 6,121 \$ 74,677 \$ 7,203 \$ 7,203 \$ 7,203 \$77.00 Chicago Park Full mem \$ 6,121 \$ 74,677 \$ 7,203 \$ 7,203 \$ 7,203 \$77.00 Chicago Park Full mem \$ 7,0322 \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,0322 \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,0322 \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,0322 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,0322 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,0322 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,0322 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,0322 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,0322 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,0322 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Park Full mem \$ 7,003 \$ 7,003 \$77.00 Chicago Par	\$1,000 County Park (and Admirals) \$ 1,003,399 \$ 6,1,018 \$ 5,5,783 \$ 6,2,288 \$ 6,0,288 \$ 7,372 \$ 7,272 \$ 7,	\$7,922 Double file of Admirbory \$ 103,399 \$ 6,1948 \$ 5,87,781 \$ 6,4286 \$ 6,0588 \$7,922 Chicago Part Remin \$ 1,1245 \$ 9,8042 \$ 9,8075 \$ 4,0575 \$ 1,0575 \$7,925 Chicago Part Remin \$ 5,27,78 \$ 1,071 \$ 6,4216 \$ 6,407 \$ 1,1407 \$7,925 Chicago Part Remin \$ 5,21,78 \$ 1,071 \$ 6,4216 \$ 6,407 \$ 1,1407 \$7,926 Chicago Part Remin \$ 7,0372 \$ 7,007 \$ 7,007 \$7,926 Chicago Part Remin \$ 7,0327 \$ 7,0475 \$ 7,0475 \$ 7,0471 \$7,926 Chicago Part Remin \$ 7,0327 \$ 35,529 \$ 13,537 \$ 84,662 \$ 23,183 \$7,927 Chicago Part Remin \$ 7,0327 \$ 35,529 \$ 13,537 \$ 84,662 \$ 23,183 \$7,927 Chicago Part Remin \$ 7,0327 \$ 35,529 \$ 10,037 \$ 84,662 \$ 23,183 \$7,927 Chicago Part Remin \$ 7,0327 \$ 84,504 \$ 1,0477 \$ 7,007 \$7,927 Chicago Part Remin \$ 7,0327 \$ 10,007 \$7,927 Chicago Part Remin \$ 7,007 \$7,927 Chicago Part Remi	\$7,000	\$7926	37790	37901	37901
\$7730	2. Change Park Fluries 5 17.246 5 59.692 8 59.575 5 44.995 6 15.45,931 2. Little York Basin 5 6.844 5 4.7211 5 4.7216 5 4.023 5 12.592 3. Little York Basin 5 6.844 5 4.7211 5 4.7216 5 4.023 5 12.592 4. Change Park Forelay 5 2.140 5 3.001 5 72.915 5 63.206 5 17.336 Subtical Operating Expenses 5 665,121 5 774,675 5 774,4674 5 742,614 5 851,707 5 775,722 OPPA Acress Road 5 7.322 5 35.529 5 13.532 5 84,602 5 22.818 OPPA Standard 5 7.322 5 35.529 5 13.532 5 84,602 5 22.818 OPPA Standard 5 7.322 5	1922 Chicago Pick Flume \$ 12,745 \$ 59,892 \$ 98,957 \$ 4,499 \$ 1,04,961	\$7,700 Chicago Part Fuene \$ 12,248 \$ 9,892 \$ 9,857 \$ 44,995 \$ 104,048 \$ 137,004 \$ 1,005	\$7,702 Chicage Plant Finne	\$7,700 Chicago Park Futner \$ 12,245 \$ 9,5002 \$ 9,5007 \$ 4,4595 \$ 10,420 \$ 12,720	\$7,932	\$\frac{5}{27802}	97302 O'Chaigh pirk flume	1732 Chicago Park Turne	\$1,722	1712 C. Chapp Park Flume S. 17,245 S. 58,992 S. 58,957 S. 44,995 S. 104,528
57964 Chapp Park Forebay 5	4 Occup Park Forebby 5 3,469 5 3,901 5 27,915 5 43,206 5 12,336 5 27,915 5 43,206 5 12,336 5 27,915 5 43,206 5 12,336 5 27,915 5 43,007 5 27,722 5 27,007 5		\$7,000 Charge Park Forebay \$ 2,349 \$ 1,303 \$ 2,7315 \$ 42,000 \$ 1,7348	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$7,704	37394 Oking Park Foreinty S	17308 Okugo park Forebay S 2,148 S 3,003 S 2,738 S 43,008 S 13,308	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$750.6 Oracle park foreing \$ 2,149 \$ 3,200 \$ 2,235 \$ 4,200 \$ 1,236	Trible Comparison Compari	Trigon Comparison Compari
Subtotal Operating Expenses 665,121 S 714,675 S 794,694 S 742,614 S 831,707 S 7	Communication Security Security Securit	Subtotal Operating Expenses S 665,121 S 734,675 S 794,694 S 742,614 S 83,707 S 735,722	Project Expanses Selected Operating Expanses Selected Operat	Project Expenses Solder Agenting Expenses Solder Agent Solder	Project Expenses Selected Operating Expenses Selected Operat	Project Expenses Subteal Operating Expenses Sets, 121 S 734,075 S 794,094 S 742,614 S 831,707 S 792,722	Project Expenses September	Company Comp	Solidotal Operating Expenses 5 663, 23 S 734,073 S 734,094 S 742,014 S 803,707 S 737,722 VOCT Expenses 242 CFPN Access Read 5 7,322 S 5,3529 S 135,527 S 84,652 S 73,183 243 AG OPP Standing Generator S 7,322 S 5,3529 S 135,527 S 84,652 S 73,183 244 AG OPP Standing Generator S 8,45,004 S 1,472 2431 CFPN Read Operating Zone S 200,077 2445 CFPN Read Operating Zone S 200,077 2446 CFPN Read Operating Zone S 200,077 2450 CFPN Read CFPN Read Operating Zone S 200,077 2450 CFPN Read CFPN Read Operating Zone S 200,077 2450 CFPN Read CFPN Read CFPN Read Operating Zone S 200,077 2450 CFPN Read CFPN	Selected Operations Specific Expensions Specific Expensions Specific Expensions Specific Expensions Specific Company Access Read Specific Company Acce	Seed Expensions Special Expensions Special Expensions Special Expensions Special Expensions Special Expensions Special Company Access Read Special Company
Project Express 79% Across Road 5 70,322 5 35,329 5 355,522 5 84,662 5 29,185 2444.	OPIN Access Board \$ 70,332 \$ 83,529 \$ 135,522 \$ 84,662 \$ 29,133	877 CPPH Access Boad	Project Expension 277 OFFI Access Road 5 70,322 5 35,529 5 135,527 5 84,662 5 23,183 2874 OFFI Rectical Road 5 8,00,00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Project Expenses 1	Project Expension 1	Project Department Project	Project Expension	Section Sect	Section Sect	September Sept	Sect Companies Sect Companies Sect
6877 OPP4 Access Road \$ 70,322 \$ 33,529 \$ 135,522 \$ 8,4662 \$ 29,383	CPT Standary Generator \$ 15.41 \$ 401 CPT-B Extractal Towarder \$ 5.472 \$ 601 CPT-B standard (Relays) \$ 45.94 \$ 5.472 CPT-B Rough Control (Relays) \$ 45.94 \$ 1.421 CPT-B Rough Control (Relays) \$ 20.957	15	Comparison Com	Comparison Com	GET7	GET7	BETT CPM Access food \$ 73,322 \$ 83,529 \$ 135,522 \$ 84,662 \$ 72,183	6377 GPP4 Access Roade \$ 70,322 \$ 83,239 \$ 185,527 \$ 84,662 \$ 72,183	6377 OPP Access Roads \$ 70,322 \$ 83,239 \$ 135,322 \$ 84,662 \$ 29,183	BETT CPM Access Roads \$ 70,322 \$ \$ \$13,522 \$ \$ \$4,662 \$ \$ 79,183	6277
3.484 OPP Standby Generator \$ 1.36.47 \$ 60.	CPT Standary Generator \$ 15.41 \$ 401 CPT-B Extractal Towarder \$ 5.472 \$ 601 CPT-B standard (Relays) \$ 45.94 \$ 5.472 CPT-B Rough Control (Relays) \$ 45.94 \$ 1.421 CPT-B Rough Control (Relays) \$ 20.957	64 OPF Standby Generator \$ 13,41 \$ 40,11 CF	2444	2444	2444	2444	2444	2444 OPPs Sauchy Generator 5 10.4.17 5 40.1	244. OPPs Sandby-Generator 5 10,417 5 401	2484	2484
3471	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Orth Exercised Drawing \$ 5, 50,722	2471 Offs Recircal Growing \$ 5, 52,722	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs (Sectoral Derwing \$ 5, 50,722
2006 CMP twindboard/failure S. 45,064 S. 3,437 2131 CMP 16 Road December 2016 S. 20027 2144 CMP 16 Exposition S. 86,67 S. 133,140 S. 174,223 S. 173,145 S. 123,176 2145 CMP 18 Lance Friend Peter S. 306,609 S. 155 S. 155 2445 CMP 18 Lance Friend Peter 2016 S. 306,609 S. 155 S. 155 2446 CMP 18 Lance Report S. 36,627 S. 36,6	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006 CHY Interface Ordering S	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
3.131 CPPH Rough Operating Zone \$ 203,057 .1346 CPPH Fire Supportation \$ 8,464 \$ 153,349 \$ 174,223 \$ 171,542 \$ 12,176 .145 CPPH Substance of Plant PLC \$ 296,409 \$ 155 \$ 174,223 \$ 171,542 \$ 12,176 .1352 CPPH Substance of Plant PLC \$ 396,409 \$ 5 5.51 .240 CPPH Substance of Plant PLC \$ 5,000,005 \$ 1,270 .255 CPPH Tallaces Repair \$ 3,216 \$ 61,271 \$ 5,000,005 \$ 1,270 .255 CPPH Tallaces Repair \$ 20 \$ 20 \$ 20 \$ 20	CPPH Rough Operating Zone \$ 203,057		2.133	2333	2333	2133	2333 CPPN Rough Operating Zone \$ 200,507	2334 OPPN Regular Total Section Sectio	3333 OPPN Regular Zone 5	2333	2333
2564		CDDU Pount Congrisor Zone 4	2344	2164	2344	2344	2144	2546 OPPs Resignation S. 8.645 S. 353.00 S. 274.223 S. 273.542 S. 273.545	2144	2544	2546
3.165 CPPV Substrace of Poster R.C. \$ 386,409 \$ 155 3.132 CPPV Substrace place \$ 5,551 \$ 5,551 3402 CPPV Informace place \$ 3,216 \$ 64,271 \$ 5,000,005 \$ 1,870 2551 CPPV Tallaces Regist \$ 5 20 \$ 20	CPPH Fire Suppression c 9 645 C 152 249 C 174 272 C 171 647 C 17 176		2345 Other Standard Place PKC \$ 286-009 \$ 1.55	2155	2345 Other State Park September Se	2368 O'Phi Blance of Fluer P.C \$ 396,609 \$ 155 \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2365 CPH Sintenger S 305,609 S 155	1545 OPH Billions of Plant PLC	1,556 OPH bilistics of Plant PLC	255	255
2332 CPM Switchboar 5 5.51 2400 TPM Restrumentation 5 2,18 5 2,71 5 30,005 5 1,370 2551 CPM Tallicus Repair 5 2,0 5 20			2232 Chris Intelligent S 5-51	2532 Orth Sentrepart	2,323	2332	2333 CPM Storthgare \$ 5, 531	2332 OPTs Suthinguar	333 O'Ph Sinthippar \$ 5, 553	2333 CPH Stanfurger \$ 8 55.	2333 CPH Submit page \$ 5, 553.
2402 CPPH Instrumentation \$ 3,216 \$ 61,271 \$ 300,005 \$ 1,370 2551 CPPH Tallrace Repair \$ 20	CPPH Switchgear \$ 551		2402 O'Pris Intronentation \$ 3,246 \$ 61,271 \$ 300,000 \$ 1,370	2402 CPN Intranscription S 3,216 S 61,271 S 200,005 S 1,370	2402 O'Phi Intramedation \$ 3,216 \$ 61,271 \$ 300,000 \$ 1,370	Add O'Ph Introduction S 1,216 S 61,271 S 20,0005 S 1,370	2007 O'Phi Infuncionation S. 3,216 S. 61,271 S. 200,0005 S. 1,370	ACCOUNTMENTATION \$ 3.26 \$ 6.275 \$ 200,000 \$ 1,370	Accordance Acc	Accordance Acc	Accordance Acc
	CPPH Instrumentation \$ 3,216 \$ 61,271 \$ 300,005 \$ 1,370	352 CPPH Switchgear \$ 5.51	249 O'PH CADO Meer head	2549 CPM CADO Mater Recet	2349	23-60 CPM** CLOOM Meer Reads	2549	2549 OPPs CADO Meter Reset 5 147 5 728	2549 OPP LADA Meter Reset 5	2-50	2-50
		35.2 CPH Switchgoar \$ 5.553. 402 CPH Indrumentation \$ 3,216 \$ 61,273 \$ 300,005 \$ 1,370	238.3	2353 CPH Tutuber Overhead	2383	2333	2333 CPN Turbino Ordinal	2353 OPPs Transformer	233. OPPs Turnism Ownhaul	2933 O'PH Transformer Command	2933 O'PH Transformer
		152	2342	2362	2382	2382	2302	2342 OPH Tandonem	3342 OPH Transformer	2332	2323
		332 OPPS skindingser 5 5.5.1 QC OPPS skindingser 5 64,271 5 300,005 5 1,470 SSL OPPS Tallock Regist 5 20 5 20 OC OPPS LGSO Morte Regist 5 147 5 738	2383 OPH Reward S. 5,3460	2383	2,338	2383	2383	2,381 OPPs Revoid	3,834 OPH Novel	2,883 CPPH Natural	2,88
		\$25	2598 OPHR RIV Septement \$ 3,940	2588 CPM RUI Napiscement	2,568	2008 CPVH R ID Replacement S 1,940	2006 CPH & Ellis Indiplacement S	2006 OPPs Billy Capital	2008 OPH NITH Refresement S. 3,540	2008	2008
		332 OPP's lawfungear 5 5.5.1 QU OPP's lawfungear 5 61,27 5 300,005 5 1,370 SSL OPP's Tallizace Repair 5 20 5 20 OPP's LGOA Deter Repair 5 147 5 738 333 OPP's Turbine Coerbuid 5 1,520 5 5,144 3C OPP's Turbine Coerbuid 5 1,460 5 48,134	2006-1 OPH Robert- Legal \$ 1,725 384 2003 OPH Robert Outset \$ 91,955 \$ 18,726 2386 OP Hum Drob \$ 9 \$ 9 2581 OP Tendoshy/Conful Lining \$ 2,438 \$ 3,870	2006-1 CPM Relay- Liqui \$ 1,725 \$ 3.84 2033 OPH & Lovi Level Cube!	2006-1 Corris Robus Legal S 1,758 S 344 2003 O'Ri Bout Local Cadet S 91,905 S 1,778 S 2386 O'R Hum Doin S 5 94,905 S 9,785 S 2381 O'R Hum Doin S 5 94,905 S 3,270 2381 O'R Hum Doin S 5 24,905 S 3,270 2381 O'Robus/Hond Lining S 3,244 S 24,147 S 464,825 S 589,757 S 193,778 S 2491 S 2491 S 2491 S 2491 S 2491 2492 SCAN Oppose (250) S 5,00,707 S 64,91 S 3481 2493 SCAN Oppose (550) S 57 S 991 S 64 S 2	2006-1 Orth Reign - Ligal S 3,755 S 344	2006-1 CPPA Ricky - Egal S 1,755 S 384 2005-1 CPPA Ricky - Egal S 1,755 S 384 2005-1 CPPA End Lord Colored S 91,905 S 1,775 S 2388 CP Finance Found Colored S 91,905 S 2,918 S 2,970 2315-1 CP Foreithy/Chanal Living Sobbital Project Expenses S 132,244 S 24,147 S 644,875 S 589,777 S 199,8778 S 457,5770 2015-2 CPPA 2015-2 CPPA	2006-1 OPH Ridiny-Legal S 1,726 S 364	2006-1 OPPH Rights-Legal \$ 1,725 \$ 344	2006-1 CPPH Inters- Legal S 1,725 S 3,84	2006-1 CPPH Inters- Legal S 1,725 S 384
2006-1 CPPH Relays - Legal \$ 1,735 \$ 384	1 CPPH Relays - Legal 5 1,735 5 384	332 OPP inturbupes 5 5.5.1 QP inturbunestation \$ 3.218 \$ 61,271 \$ 000,005 \$ 1,370 551 OPP Inturbune Regul \$ 5 5 0 QPP Inturbune Overhaul \$ 147 \$ 738 333 OPP Inturbune Overhaul \$ 13,520 \$ 5,544 QPP Inturbune Overhaul \$ 14,660 \$ 6,823 381 OPP Inturbune Overhaul \$ 3,540 0PP Inturbune Overhaul \$ 3,540 0PP Inturbune Overhaul \$ 3,540	2386 O'Flume Drain \$ 88	2366		2386 OF form Drain	2386 CF hims Drain 5	2386	3386	2586	2586
		132 OPF bindingser	2511 O' Forebay/Canal Uning 5 22,438 5 2,870	2511 Of Forebay/Canal Lining \$ 2,435 \$ 2,870 \$ 251 \$ 5 257 \$ 251 \$ 5 257 \$ 251 \$ 5 257 \$ 251 \$ 5 257 \$ 251 \$ 5 257 \$ 251 \$ 5 2	2014 O Formbay Cand Lines Substant Project Expenses \$15,244 \$214,447 \$444,275 \$550,757 \$199,278 \$457,570	23.1.1 O'Fordesy/Canal Long S. 27.458 S. 27.70	Solitor CF Ordinary Clarad Library Solitoral Project Expenses SE2.44 S 21.44 S 44.22 S 589,757 S 199,779 \$ 457,579	201	231	23.1 Of Forebay(Canal Lines)	231. Of Forebay(Canal Lines) Substant Project Expenses \$ 18,924 \$ 214,47 \$ 544,82 \$ 589,957 \$ 199,078 \$ 447,570 \$ 199,078 \$ 547,570 \$ 199,078 \$ 19
		1332		Subtotal Project Expenses \$ 819,244 \$ 214,147 \$ 464,825 \$ 589,757 \$ 199,878 \$ 457,570	Subtent Project Expenses 5 819,244 5 244,147 5 444,825 5 589,757 5 199,878 5 457,579 Allocated Project Expenses 5 5,500,037 5 5,6919 5 5 348, 23.203 SCRAA (Supplied Stav) (279) 5 5 7 5 918 5 64 5 2	Solitoral Project Expenses Sales	Substant Project Expenses 18,244 5 214,147 5 444,825 5 587,757 5 199,878 5 437,579	Subtorial Project Expenses Subject Expenses Sub	Subtool Project Egyptimes Subtool Project Egyptimes \$19,264 \$ 224,147 \$ 644,275 \$ 589,797 \$ 199,278 \$ 477,379 \$ 199,278 \$ 477,379 \$ 199,278 \$ 477,379 \$ 199,278 \$ 477,379 \$ 199,278	Subtrail Project Expenses 5 159,244 5 214,147 5 464,823 5 389,757 5 199,278 5 457,379 SCARA Supports DESS) 5 50,077 5 46,993 5 348 5 349,278 5 457,379 SCARA Supports DESS) 5 50,077 5 46,993 5 348 5 3 348 5 3 349,278 5 349,	Solderial Project Expenses 5 159,244 5 214,147 5 444,273 5 159,777 5 199,278 5 457,379 control Project Expenses 7 5 5 50,077 5 46,479 5 348 5 349,777 5 199,278 5 457,379 SCADA Supports DESS) 5 50,077 5 46,479 5 348 5 3
		132			Allocated Project Expenses 201502 SCADA Ligigrade (25N) 5 50,037 5 46,489 5 348 2109 SCADA Ligigrade (25N) 5 57 5 981 5 64 5 2	Allocated Project Expenses All SCADA Lappards (25%) \$ 50,037 \$ 45,493 \$ 348 1039 \$CADA Lappards Study (25%) \$ 57 \$ 981 \$ 64 \$ 2 2469 Electric Reliability Services (25%) \$ 57 \$ 981 \$ 64 \$ 2 3469 Electric Reliability Services (25%) \$ 51,414 \$ 17,420 \$ 2,558	Nocated Project Expenses 201502 546,493 548			Ocasted Project Expenses \$1,005.007 S. A6,AP8 S. 348 \$1,009 S.CAAA Upgrade Study (25%) S. 50,037 S. 46,AP8 S. 348 \$1,009 S.CAAA Upgrade Study (25%) S. 57 S. 981 S. 64 S. 2 \$2,469 Electric Reliability Services (50%) S. 31,474 S. 17,470 S. 2,568 \$1,000 Version Vision Project (10%) S. 14,577 S. 7,172 S. 4,498 S. 930 \$1,000 Version Vision Project (10%) S. 14,577 S. 7,172 S. 4,498 S. 930 \$1,000 Version Vision Project (10%) S. 14,577 S. 7,172 S. 4,498 S. 930 \$1,000 Version Vision Project (10%) S. 14,577 S. 7,172 S. 4,498 S. 930 \$1,000 Version Vision Project (10%) S. 14,577 S. 7,172 S. 4,498 S. 930 \$1,000 Version Vision Project (10%) S. 14,577 S. 7,172 S. 4,498 S. 930 \$1,000 Version Vision Project (10%) S. 14,577 S. 7,172 S. 4,498 S. 930 \$1,000 Version Vision Project (10%) S. 14,577 S. 7,172 S. 4,498 S. 930 \$1,000 Version Vision Project (10%) S. 14,577 S. 7,172 S. 4,498 S. 930 \$1,000 Version Vision Project (10%) S. 14,577 S. 7,172 S. 4,498 S. 930 \$1,000 Version Vision Project (10%) S. 14,577 S	Ocasted Project Expenses \$109305
		1332		Allocated Broket Evaporer		2015(0) \$COAN (bigrade (DN)) \$ 50,007 \$ 64,493 \$ 348 \$ 109 \$ 5240 bigrade (DN) \$ 5 5 5 5 5 5 5 5 5 5 2 4 5 5 2 5 5 5 5 5	201562 SCAAA (Seprade CSN) \$ 50,037 \$ 46,493 \$ 148 10398 SCAAA (Seprade Stable) (TSN) \$ 57 \$ 981 \$ 64 \$ 2 2469 Electric Relability Senices (CSN) \$ \$ 3,1424 \$ 1,7420 \$ 2,568 6927 Monw Publish Prop Act (DSN) \$ 5,217 \$ 4,984 \$ 803	201502 S-CADA Upgrade (25%) \$ 50,027 \$ 44,693 \$ 348 12039 S-CADA Upgrade Study (25%) \$ 57 \$ 991 \$ 64 \$ 2 2469 Electric Reliability Services (25%) \$ 31,424 \$ 17,420 \$ 2,568 6927 Lower Dission Frey April (25%) \$ 44,577 \$ 7,172 \$ 4,984 \$ 903	2015/07 SCADA Upgrade 17581 \$ 50,027 \$ 44,693 \$ 348 12093 SCADA Upgrade 15091 \$ 57 \$ 981 \$ 64 \$ 2 2469 Electric Reliability Services (50%) \$ 31,424 \$ 17,420 \$ 2,568 6927 Lower Dission Free pool (150%) \$ 44,577 \$ 7,172 \$ 4,984 \$ 50	2015.07 SCAIAN (Ligerals (EDNI) \$ 50,037 \$ 46,493 \$ 348 1.039 SCAIAN (Ligerals Study (EDNI) \$ 57 \$ 981 \$ 64 \$ 2 2489 Electric Resibility Services (EDNI) \$ 31,424 \$ 17,420 \$ 2,568 6927 Lower Division Fines, Pack (EDNI) \$ 14,537 \$ 7,127 \$ 4,988 \$ 033	2015.07 SCAIAN Upgrade (CDNI) \$ 50,037 \$ 44,893 \$ 348 1.039 SCAIAN Upgrade Study (CDNI) \$ 5,75 \$ 981 \$ 64 \$ 2 2469 Electric Reliability Services (EDNI) \$ 3,448 \$ 12,740 \$ 2,568 6927 Lower Division Flow, Educ (EDNI) \$ 14,4377 \$ 7,127 \$ 4,984 \$ 803
Allocated Project Expenses	Subtotal Project Expenses \$ 819,244 \$ 214,147 \$ 464,825 \$ 589,757 \$ 199,878 \$ 457,570	13.0 OPF Information S. S. S.			1039 SCADA Upgrade Study (25%) \$ 57 \$ 981 \$ 64 \$ 2	1039 SCADA Upgrade Study (25%) \$ 57 \$ 988 \$ 64 \$.2		1009 SADA Ligories (sur) (250) \$ 57 \$ 505 \$ 65 \$ 7 \$	1099 SAPAL Egypter Eurly (25%) 5 57 585 5 5 5 5 5 5 5 5	1039 \$500a lappare bady (250) 5 57 5 50 5 5 2	1039 50-04 legates (adj. (250) 5 57 581 5 5 7
	Subbotal Project Expenses \$ 819,244 \$ 214,147 \$ 444,825 \$ 589,757 \$ 199,878 \$ 457,570 noss	133				2469 Electric Reliability Services (50%) S 31,424 S 17,420 S 2,568	2469 Electric Reliability Services (50%) \$ 31,424 \$ 17,420 \$ 2,568 6927 Lower Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,964 \$ 803	2460 Electric Reliability Services (50%) \$ 31,424 \$ 17,420 \$ 2,568 6927 Lower Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,984 \$ 803	2469 Electric Reliability Services (50%) \$ 31,424 \$ 17,420 \$ 2,568 6927 Lower Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,984 \$ 803	7469 Electric Reliability Services (50%) \$ 31.424 \$ 17.420 \$ 2.588 6927 Lower Division Prop Acq (50%) \$ 14.577 \$ 7,172 \$ 4,984 \$ 803	7469 Electric Reliability Services (50%) \$ 31.424 \$ 17.420 \$ 2.568
	Subtotal Project Expenses \$ 819,244 \$ 244,47 \$ 464,825 \$ 589,757 \$ 199,879 \$ 457,570 SSCACA Lipprode (25%) \$ 50,037 \$ 46,493 \$ 346	132 OPT Individual S	201502 SCADA Upgrade (25%) \$ 50,037 \$ 46,493 \$ 348				6927 Lower Division Prop Acq (SDNs) S 14,577 S 7,172 S 4,994 S 803	6927 Lower Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,984 \$ 803	6927 Lower Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,984 \$ 803	6927 Lower Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,994 \$ 803	6927 Lower Division Prop Acq (50%) \$ 14.577 \$ 7,172 \$ 4,984 \$ 803
	Subtrail Project Expenses \$19,244 \$ 114,147 \$ 444,85 \$ 589,757 \$ 199,078 \$ 457,570	132	201502 SCADA Upgrade (25%) \$ 50,037 \$ 46,493 \$ 348 1039 SCADA Upgrade Study (25%) \$ 57 \$ 981 \$ 64 \$ 2	1039 SCAN Upprade Study (159) \$ 57 \$ 981 \$ 64 \$ 2							
	Subtrail Project Expenses St.	132 OPF Information S	201500 SCOAL Upgrade (25%) \$ 50,037 \$ 66,693 5 348	1039 SCION Lipprade Study (25%) \$ 57 \$ 988 \$ 64 \$ 2469 Electric Rehability Services (20%) \$ 31,024 \$ 77,00 \$ 2,568					201308 Commonweal (2019) \$ 10,650 \$ 63 \$ 4,659 \$ 18	201308 LOWER DAVISION PTOP ACQ (50%) \$ 10,650 \$ 63 \$ 4,659 \$ 18	201308 LOWER DIVISION PTOP ACQ (5U%) \$ 10,650 \$ 63 \$ 4,659 \$ 18
	Subtotal Project Expenses 5 19,244 5 244,147 5 464,823 5 389,727 5 199,879 5 657,270	13.00 Per Northrigher 5 5 5 5 5 5 5 5 5	201502 SCAAA Suppade (1594) \$ 5,0,0,037 \$ 44,493 \$ 348 1.019 SCAAA Suppade (1594) \$ 5 7 \$ 981 \$ 64 \$ 2 2.449 Electric Relability Services (1509) \$ 5 3,4,44 \$ 17,430 \$ 2,548 2.649 (1697) SCAA Suppade (1598) \$ 4,577 \$ 7,172 \$ 4,984 \$ 500 8	1009 \$500-1 (signed 5xely 1259) \$ 97 \$ 981 \$ 96 \$ 2	6927 Lower Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,984 \$ 803		Subtotal Allocated Project Expenses \$ 75,321 \$ 54,708 \$ 41,479 \$ 18,242 \$ 2,568 \$ 38,464	Subtotal Allocated Project Expenses \$ 75,321 \$ 54,708 \$ 41,479 \$ 18,242 \$ 2,568 \$ 38,464			
Subtotal Allocated Project Expenses \$ 75,321 \$ 54,708 \$ 41,479 \$ 18,242 \$ 2,568 \$	Subtrail Project Expenses St. 5244 \$ 24,447 \$ 464,85 \$ 589,797 \$ 199,879 \$ 457,570	132 OPT Intermittation \$ 3.5 5.5	2015.02 SCAA Exprised (13%) \$ 50,027 \$ 44,693 \$ 348		6927 Lower Division Prop Acq (50%) \$ 14.577 \$ 7.772 \$ 4.984 \$ 803 201038 Lower Division Prop Acq (50%) \$ 10.550 \$ 63 \$ 4.559 \$ 18				Subtrotal Milocated Project expenses \$ 75,521 \$ 54,708 \$ 41,479 \$ 18,242 \$ 2,568 \$ 38,464	Subtotal Allocated Project Expenses \$ 75,321 \$ 54,708 \$ 41,479 \$ 18,242 \$ 2,568 \$ 38,464	Subtotal Allocated Project Expenses \$ 75,321 \$ 54,708 \$ 41,479 \$ 18,242 \$ 2,568 \$ 38,464
	Subtrail Project Expenses St. Subtrail Expenses	130 130	2012002 SCACA Stoppinde (13%) \$ 16,037 \$ 46,493 \$ 148 \$ 1500	1019 SCOAL loggards Study (75%) \$ 57 \$ 581 \$ 64 \$ 2 4489	6827 Lower Division Prog. Acg (DNI) 5 14,577 5 2,727 5 4,584 5 623 201000 Lower Division Prog. Acg (DNI) 5 16,000 5 67,000 5 18 Subtotal Allocated Project Expenses 5 75,321 5 5,758 5 4,479 5 13,245 5 3,568 5 38,464	Subtotal Allocated Project Expenses \$ 75,321 \$ 54,708 \$ 41,479 \$ 18,242 \$ 2,568 \$ 38,464		tal Expenses 5 1,559,686 5 1,003,530 5 1,300,798 5 1,350,614 5 1,054,153 5 1,253,756		Subtotal Allocated Project Expenses \$ 75,321 \$ 54,708 \$ 41,479 \$ 18,242 \$ 2,568 \$ 38,464	
1344			2164	2564	2546	2546 CPM Fire Supersceion S	2544 CPM For Exponencies 5	2546	2546	2544	2546
2333 CPHR Insuppl Operating Tone \$ 283,057 2344 CPHR Insupportsoon \$ 8,645 \$ 183,349 \$ 174,223 \$ 171,542 \$ 121,176 2345 CPHR Standagear \$ 386,409 \$ 155 \$ 551 \$ 551 2402 CPHR Standagear \$ 3,216 \$ 61,271 \$ 900,005 \$ 1,270 2501 CPHR Talloca Repair \$ 5 20 2	CPPH Rough Operating Zone \$ 203,057		2333 OPHN Rough Operating Tome \$ 203507	2313 CPM Repub Operating Store \$ 200,057	2313	2133	2333 CPPN Rough Operating Zone \$ 200,507	2334 OPPN Regular Total Section Sectio	3333 OPPN Regular Zone 5	2333	2333
2006 Ciril's incirchocardineleys 5 45,954 5 1,447 2131 O'''s Ropel Operating Tome 5 283,957 2144 O'''s Ris Suppression 5 86,45 5 133,349 5 174,223 5 171,542 5 12,176 2145 O'''s Ristander 5 86,49 5 15 2145 O'''s Substander 7 8 8,49 5 15 2145 O'''s Substander 7 8 8,49 5 15 2145 O'''s Substander 7 8,49 5 15 2145 O'''s Substander 7 8,49 2145 O'''s Substander 7 8,49 2146 O'''s Substander 7 8,49 2147 O'''s Substander 7 8,49 2148 O'''s Substander 7 8,49 2149 O'''s Substander 7 8,49 2149 O'''s Substander 7 8,49 2150 O'''s Substander 7 8,49	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006 Coffs Sentificació Ministry S 4,954 S 1,417	2006	2006	2006 Ciril's Notichbourd findays \$ 48,594 \$ 1,547	2006 CPM Sendichace/fieldly S 44,954 S 1,427	2006 OPPN Sunchborout/Relays \$. 44,964 \$. 1,427	2006 OPPN Sunkboard/Relique S. 44,504 S. 1,427	2005	2006
2006 Ories successor/design 5 45,004 5 3 3 4.472	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
A471	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	241	2471 Orth Excitact Drawing \$ \$ \$5,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471 OPPs (Sectoral Derwing \$ 5, 50,722	2471 OPPs (Sectoral Derwing \$ 5, 50,722
3-07.2	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	241	2471 Chris Recircal Orange 5 50,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471 OPPs (Sectoral Derwing \$ 5, 50,722	2471 OPPs (Sectoral Derwing \$ 5, 50,722
3-07.2	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	241	2471 Chris Recircal Orange 5 50,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471 OPPs (Sectoral Derwing \$ 5, 50,722	2471 OPPs (Sectoral Derwing \$ 5, 50,722
2471	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	241	2471 Chris Recircal Orange 5 50,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471 OPPs (Sectoral Derwing \$ 5, 50,722	2471 OPPs (Sectoral Derwing \$ 5, 50,722
2471	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Office Exercised Drawing \$ \$ \$0,772	2471 Offen Sectional Orange \$ \$ \$0,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs (Sectoral Derwing \$ 5, 50,722
2006 CMP interchoord/feature S	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006 CHY Interface of Chief Report S. 48,994 S. 1,447	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
2006 CHPN InterChard National S. 45,004 S. 5, 5,437 2333 CHPN Rough Charging Zone S. 203,027 2444 CHPN First Suppression S. 8,455 S. 13,349 S. 174,223 S. 171,542 S. 12,176 2405 CHPN Balance Affent PC S. 36,609 S. 155 S. 5, 5 2405 CHPN Balance Affent PC S. 36,609 S. 5 S. 5 S. 5 2405 CHPN Balance Affent PC S. 36,609 S. 5 S. 5 S. 5 2405 CHPN Balance Affent PC S. 5 S. 5 S. 5 2405 CHPN Balance Report S. 200,005 S. 200,00	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006 CHY Interface of Chief Report S. 48,994 S. 1,447	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
3-07.2	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Office Exercised Drawing \$ \$ \$0,772	2471 Offen Sectional Orange \$ \$ \$0,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs (Sectoral Derwing \$ 5, 50,722
3-07.2	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	241	2471 Chris Recircal Orange 5 50,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471 OPPs (Sectoral Derwing \$ 5, 50,722	2471 OPPs (Sectoral Derwing \$ 5, 50,722
3-07.2	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	241	2471 Chris Recircal Orange 5 50,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471 OPPs (Sectoral Derwing \$ 5, 50,722	2471 OPPs (Sectoral Derwing \$ 5, 50,722
3-07.2	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Office Exercised Drawing \$ \$ \$0,772	2471 Offen Sectional Orange \$ \$ \$0,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs (Sectoral Derwing \$ 5, 50,722
3-07.2	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Office Exercised Drawing \$ \$ \$0,772	2471 Offen Sectional Orange \$ \$ \$0,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs (Sectoral Derwing \$ 5, 50,722
3-07.2	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Office Exercised Drawing \$ \$ \$0,772	2471 Offen Sectional Orange \$ \$ \$0,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs (Sectoral Derwing \$ 5, 50,722
3-07.2	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Office Exercised Drawing \$ \$ \$0,772	2471 Offen Sectional Orange \$ \$ \$0,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs (Sectoral Derwing \$ 5, 50,722
2471	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Office Exercised Drawing \$ \$ \$0,772	2471 Offen Sectional Orange \$ \$ \$0,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs (Sectoral Derwing \$ 5, 50,722
2471	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Office Exercised Drawing \$ \$ \$0,772	2471 Offen Sectional Orange \$ \$ \$0,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs (Sectoral Derwing \$ 5, 50,722
2471	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Office Exercised Drawing \$ \$ \$0,772	2471 Offen Sectional Orange \$ \$ \$0,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs (Sectoral Derwing \$ 5, 50,722
2471	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Orth Exercised Drawing \$ 5, 50,722	2471 Offs Recircal Orange \$ \$ \$ \$, \$7.72	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs (Sectoral Derwing \$ 5, 50,722
2006 CHPN InterChard National S. 45,004 S. 5, 5,437 2333 CHPN Rough Charging Zone S. 203,027 2444 CHPN First Suppression S. 8,455 S. 13,349 S. 174,223 S. 171,542 S. 12,176 2405 CHPN Balance Affent PC S. 36,609 S. 155 S. 5, 5 2405 CHPN Balance Affent PC S. 36,609 S. 5 S. 5 S. 5 2405 CHPN Balance Affent PC S. 36,609 S. 5 S. 5 S. 5 2405 CHPN Balance Affent PC S. 5 S. 5 S. 5 2405 CHPN Balance Report S. 200,005 S. 200,00	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006 CHY Interferond Relay \$ 48,594 \$ 1,447	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
2006 CHPN InterCharacy 5	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006 CHY Interferond Relay \$ 48,594 \$ 1,447	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
2471	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Office Exercised Drawing \$ \$ \$0,772	2471 Offen Sectional Orange \$ \$ \$0,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs factorized Derwiner S 50,772
3-07.2	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Office Exercised Drawing \$ \$ \$0,772	2471 Offen Sectional Orange \$ \$ \$0,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs factorized Derwiner S 50,772
3-07.2	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	2411 Office Exercised Drawing \$ \$ \$0,772	2471 Offen Sectional Orange \$ \$ \$0,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471	2471 OPPs factorized Derwiner S 50,772
3-07.2	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	241	2471 Chris Recircal Orange 5 50,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471 OPPs factorized Derwiner S 50,772	2471 OPPs factorized Derwiner S 50,772
2471	CHP Switchboard/Helps	471 CPPH Blectrical Drawing \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	241	2471 Office Sectional Orange \$ \$ \$0,772	2471 Orth Exercised Grawing \$ \$ \$0,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471 OPPs factorized Derwiner S 50,772	2471 OPPs factorized Derwiner S 50,772
A471	CHP Switchboard/Helps	471 CPPH Blectrical Drawleg \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	241	2411 Ories (sectional drawing)	2471 Orth Excitact Grawing \$ \$ \$5,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471 OPPs Secritorial Developer \$ 5, 50,722	2471 OPPs Secritorial Developer \$ 5, 50,722
A471	CHP Switchboard/Helps	471 CPPH Blectrical Drawleg \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	241	2411 Ories (sectional drawing)	2471 Orth Excitact Grawing \$ \$ \$5,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471 OPPs Secritorial Developer \$ 5, 50,722	2471 OPPs Secritorial Developer \$ 5, 50,722
2006 Chris Nuchrboard Relays \$.45,004 \$.4,427 2131 Chris Repub Country Date \$.20,0027 2144 Chris Responsion \$.56,005 \$.13,340 \$.17,422 \$.17,542 \$.12,176 2145 Chris Responsion \$.56,609 \$.155 \$.51 2146 Chris Relays \$.75 \$.51 2147 Chris Relays \$.50,009 \$.51 2148 Chris Relays \$.50,009 \$.51 2149 Chris Relation Relation \$.26 \$.50,009 \$.1,270 215 Chris Relation Reput \$.26 \$.50,009 \$.1,270 215 Chris Relation Reput \$.20 \$.20 215 Chris Relation Reput \$.20 216 Chris Relation Reput \$.20 217 Chris Relation Reput \$.20 218 Chris Relation Reput \$.20 218 Chris Relation Reput \$.20 219 Chris Relation Reput \$.20 219 Chris Relation Reput \$.20 219 Chris Relation Relatio	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
2006 Chris Nuchrboard Relays \$.45,004 \$.4,427 2131 Chris Repub Country Date \$.20,0027 2144 Chris Responsion \$.56,005 \$.13,340 \$.17,422 \$.17,542 \$.12,176 2145 Chris Responsion \$.56,609 \$.155 \$.51 2146 Chris Relays \$.75 \$.51 2147 Chris Relays \$.50,009 \$.51 2148 Chris Relays \$.50,009 \$.51 2149 Chris Relation Relation \$.26 \$.50,009 \$.1,270 215 Chris Relation Reput \$.26 \$.50,009 \$.1,270 215 Chris Relation Reput \$.20 \$.20 215 Chris Relation Reput \$.20 216 Chris Relation Reput \$.20 217 Chris Relation Reput \$.20 218 Chris Relation Reput \$.20 218 Chris Relation Reput \$.20 219 Chris Relation Reput \$.20 219 Chris Relation Reput \$.20 219 Chris Relation Relatio	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
2006 Chris Nuchrboard Relays \$.45,004 \$.4,427 2131 Chris Repub Country Date \$.20,0027 2144 Chris Responsion \$.56,005 \$.13,340 \$.17,422 \$.17,542 \$.12,176 2145 Chris Responsion \$.56,609 \$.155 \$.51 2146 Chris Relays \$.75 \$.51 2147 Chris Relays \$.50,009 \$.51 2148 Chris Relays \$.50,009 \$.51 2149 Chris Relation Relation \$.26 \$.50,009 \$.1,270 215 Chris Relation Reput \$.26 \$.50,009 \$.1,270 215 Chris Relation Reput \$.20 \$.20 215 Chris Relation Reput \$.20 216 Chris Relation Reput \$.20 217 Chris Relation Reput \$.20 218 Chris Relation Reput \$.20 218 Chris Relation Reput \$.20 219 Chris Relation Reput \$.20 219 Chris Relation Reput \$.20 219 Chris Relation Relatio	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
2006 Cirri Sunchboard-Relays 5 45,004 5 3 3 4,427	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006 CHYS Interface Orderings \$ 48,594 \$ 1,447 2131 CHYS Rough Contraring Tome \$ 20,0007 2144 CHYS Rough Contraring Tome \$ 5,00087 2145 CHYS Rough Contraring Tome \$ 18,645 \$ 135,349 \$ 174,223 \$ 171,542 \$ 12,176 2152 CHYS Rough Contraring Tome \$ 385,409 \$ 1.55 \$ 151 2152 CHYS Rough Contraring Tome \$ 5,214 \$ 9,0008 \$ 1,270 2153 CHYS Rough Contraring Tome \$ 5,214 \$ 9,0008 \$ 1,270 2149 CHYS Rough Contraring Tome \$ 1,270 \$ 10,0008 \$ 1,270 2149 CHYS Rough Contraring Tome \$ 1,270 \$ 1,570 2140 CHYS Rough Contraring Tome \$ 1,570 \$ 1,544 2140 CHYS Rough Contraring Tome \$ 1,460 \$ 4,134 2140 CHYS Rough Contraring Tome \$ 1,460 \$ 1,470 2140 CHYS Rough Contraring Tome \$ 1,475 \$ 1,480 2151 CHYS Rough Contraring Tome \$ 1,475 \$ 1,480 2161 CHYS Rough Contraring Tome \$ 1,475 \$ 1,480 2161 CHYS Rough Contraring Tome \$ 1,475 \$ 1,480 2161 CHYS Rough Contraring Tome \$ 1,475 \$ 1,480 2161 CHYS Rough Contraring Tome \$ 1,475 \$ 1,480 2161 CHYS Rough Contraring Tome \$ 1,475 \$ 1,480 2161 CHYS Rough Contraring Tome \$ 1,475 \$ 1,480 2161 CHYS Rough Contraring Tome \$ 1,475 \$ 1,480 2161 CHYS Rough Contraring Tome \$ 1,475 \$ 1,480 2161 CHYS Rough Contraring Tome \$ 1,475 \$ 1,480 2161 CHYS Rough Contraring Tome \$ 1,475 \$ 1,480 2161 CHYS Rough Contraring Tome \$ 1,475 \$ 1,480 2161 CHYS Rough Contraring Tome \$ 1,480 21	2006 CHY Subtributed Phaleys \$ 48,594 \$ 1,447	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
2471	CHP Switchboard/Helps	471 CPPH Blectrical Drawleg \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	241	2471 Orth Electrical Oranneg \$ 5, 20,772	2471 Orth Excitact Grawing \$ \$ \$5,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471 OPPs Secritorial Developer \$ 5, 50,722	2471 OPPs Secritorial Developer \$ 5, 50,722
2471	CHP Switchboard/Helps	471 CPPH Blectrical Drawleg \$ 50,772 DD6 CPPH Switchboard/Relays \$ 48,904 \$ 1,437	241	2471 Orth Electrical Oranneg \$ 5, 20,772	2471 Orth Excitact Grawing \$ \$ \$5,772	2471	2471 CPM Enterior Deaver S 50,772	A	A	2471 OPPs Secritorial Developer \$ 5, 50,722	2471 OPPs Secritorial Developer \$ 5, 50,722
2471	OPH Sectod Drawley \$ 50,772 CHFS Switchboard Pellips \$ 48,994 \$ 1,437 CPFR South Departing Zone \$ 20,057 \$	471 CPPH Electrical Drawing \$ 50,772 DDG CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2471	2017 Orthe Exercised Forence \$ 5, 20,772	Add Orth Escitical Grawing \$ \$ \$0,772	2471	2471 CPPH Enterior Develop \$ \$ \$0,772	A	A	3471 CPM Enterior Directing \$ 5, 50,772	3471 CPM Enterior Directing \$ 5, 50,772
2006 CHPN standboard/Relays 5 48,304 5 3 3.437	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006 CHY Standbord Relay \$ 48,504 \$ 1,447 \$ 127,523 \$ 127,542 \$ 123,76	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
2006 CHPN standboard/Relays 5 48,304 5 3 3.437	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006 CHY Standbord Relay \$ 48,504 \$ 1,447 \$ 127,523 \$ 127,542 \$ 123,76	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
2006 CHPN InterCharacy 5	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006 CHY Interferond Relay \$ 48,594 \$ 1,447	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
2006 CHPN InterCharacy 5	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006 CHY Interferond Relay \$ 48,594 \$ 1,447	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
2006 CHPN standboard/Relays 5 48,304 5 3 3.437	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006 CHY Standbord Relay \$ 48,504 \$ 1,447 \$ 127,523 \$ 127,542 \$ 123,76	2006	2006 Orth Nutrchbord/firety \$.48,004 \$ 1,447 \$ \$ \$ \$ \$ \$ \$ \$ \$	2008	2006	2006	2006	2006
2006 CHPN standboard/Relays 5 48,304 5 3 3.437	CHPH Switchboard/Relays	006 CHPH Switchboard/Relays \$ 48,904 \$ 1,437	2006	2006 CHY Interferond Relay \$ 48,594 \$ 1,447	2006	2006	2008	2006	2006	2006	2006
21.33 CPM* Row (supplicating Zone \$ 253,047 2164 CPM* Fire Supplication \$ 8,454 \$ 153,349 \$ 174,223 \$ 121,542 \$ 121,164 2165 CPM* Substance of First PKC \$ 986,409 \$ 355 \$ 551 2352 CPM* Substance of First PKC \$ 986,409 \$ 5 551 2402 CPM* Instrumentation \$ 3,216 \$ 64,271 \$ 800,005 \$ 1,270 2551 CPM* Tallaces Repair \$ 5 20 \$ 20	CPPH Rough Operating Zone \$ 203,057		2,133	2333	2333	2133	2333 CPPN Rough Operating Zone \$ 200,507	2334 OPPN Regular Total Section Sectio	3333 OPPN Regular Zone 5	2333	2333
21.33 CPM* Row (supplicating Zone \$.253,047 21.64 CPM* Fire Supplication \$.84,65 \$.53,349 \$.174,223 \$.171,542 \$.121,176 21.65 CPM* Substrace of First PKC \$.986,409 \$.55 5.55 \$.55 2452 CPM* Substrace of First PKC \$.986,409 \$.55 5.51 2402 CPM* Instrumentation \$.3,216 \$.64,271 \$.980,005 \$.1,270 2551 CPM* Tallaces Repair \$.20 \$.20	CPPH Rough Operating Zone \$ 203,057		2,133	2333	2333	2133	2333 CPPN Rough Operating Zone \$ 200,507	2334 OPPN Regular Total Section Sectio	3333 OPPN Regular Zone 5	2333	2333
1164			2344	2346	2344	2344	2144	2546 OPPs Resignation S. 8.645 S. 353.00 S. 274.223 S. 273.542 S. 273.545	2144	2544	2546
2164		CPPH Rough Operating Zone 6 202.007	2344	2164	2344	2344	2144	2546 OPPs Resignation S. 8.645 S. 353.00 S. 274.223 S. 273.542 S. 273.545	2144	2544	2546
2164		CPPH Rough Operating Zone 6 202.007	2344	2164	2344	2344	2144	2546 OPPs Resignation S. 8.645 S. 353.00 S. 274.223 S. 273.542 S. 273.545	2144	2544	2546
2164		CPPH Rough Operating Zone 6 202.007	2344	2264	2344	2344	2144	2546 OPPs Resignation S. 8.645 S. 353.00 S. 274.223 S. 273.542 S. 273.545	2144	2544	2546
2164		122 CPPH Rough Operating Zone C 202.057	2344	2264	2344	2344	2144	2546 OPPs Resignation S. 8.645 S. 353.00 S. 274.223 S. 273.542 S. 273.545	2144	2544	2546
21.65 CPHP Substruce Of Finet PKC 5 356,409 5 155 5 5 151 252 252 252 5 5 5 5 5 351 5 6 6,427 5 800,005 5 1,270 3 20 2 </td <td></td> <td></td> <td> 2345 Other Standard Place PKC \$ 286-009 \$ 1.55 </td> <td> 2155</td> <td> 2345 Other State Park September Se</td> <td> 2368 O'Phi Blance of Fluer P.C \$ 396,609 \$ 155 \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td> <td> 2365 CPH Sintenger S 305,609 S 155 </td> <td> 1545 OPH Billions of Plant PLC</td> <td> 1,556 OPH bilistics of Plant PLC</td> <td> 255</td> <td> 255</td>			2345 Other Standard Place PKC \$ 286-009 \$ 1.55	2155	2345 Other State Park September Se	2368 O'Phi Blance of Fluer P.C \$ 396,609 \$ 155 \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2365 CPH Sintenger S 305,609 S 155	1545 OPH Billions of Plant PLC	1,556 OPH bilistics of Plant PLC	255	255
2165 CPM Bullinger of Fuse PKC 5 98-409 5 155 5 5 5 253 253 255 5 5 5 5 3 260 254 5 200,005 5 3,216 5 64,271 5 200,005 5 3,216 5 64,271 5 200,005 5 3,216 5 64,271 5 200,005 5 3,216 5 64,271 5 200,005 5 3,216 5 64,271 5 200,005 5 3,216 5 64,271 5 200,005 5 3,216 5 64,271 5 200,005 5 3,216 5 64,271 5 200,005 5 3,216 5 64,271 5 200,005 5 3,216 5 5 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			2345 Other Standard Place PKC \$ 286-009 \$ 1.55	2355	2345 Other State Park September Se	2368 O'Phi Blance of Fluer P.C \$ 396,609 \$ 155 \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2365 CPH Sintenger S 305,609 S 155	1545 OPH Billions of Plant PLC	1,556 OPH bilistics of Plant PLC	255	255
2165 CPH Salinized Pface PAC 5 195-409 5 155 5 151 21212 CPH Salinized Pface PAC 5 195-409 5 155 5 151 2402 CPH Salinized Pace PAC 5 151 5 151 5 151 251 CPH Tallizes Repair 5 3,716 5 16,771 5 100,005 5 1,770 251 CPH Tallizes Repair 5 20	CODE Direction		2345 Other Standard Place PKC \$ 286-009 \$ 125 \$	2345 O'M's Bainchager Face Fa	2345 Other State Park September Se	2368 O'Phi Blance of Fluer P.C \$ 396,609 \$ 155 \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2365 CPH Sintenger S 305,609 S 155	1545 OPH Billions of Plant PLC	1,556 OPH bilistics of Plant PLC	255	255
2165 CPHP bilance of Plant PLC \$ 386,409 \$ 155 2352 CPHP bilance plant \$ 5 551 2402 CPHP bilance plant \$ 8,216 \$ 64,271 \$ 300,005 \$ 1,270 2551 CPHP bilance plant \$ 7 5 \$ 20 \$ 20	CPPH Fire Suppression \$ 8.665 \$ 153.369 \$ 174.773 \$ 171.547 \$ 17.176	164 CPPH Fire Suppression 5 8.645 5 153.349 5 174.723 5 171.542 5 17.176	2165 O'Pris Staticages S 385,409 S 155	2365 Offen Statistics of Float PLC \$ 386,609 \$ 3.55 \$ 5.51 \$ 5.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 1.070 \$ 2.000.005 \$ 2.000.0	2,166	2365 CPM Bilance of Place RC \$ 386,609 \$ 135	2365 CPM Educacy Filter PLC \$ 386,609 \$ 155 \$ \$ \$ \$ \$ \$ \$ \$ \$	2556 CPV Statistics of Planet PLC S 286-409 S 5.55	255 CPM billiotice of Prior FLC \$ 396-509 \$	255 CPR Statute of Private PLC S 256-209 S 355	255 OPH Intercept Section Se
2253			2333 O'Pris Introduces \$ 5.551	2332 O'M's introducestation \$ 5. 551	2,332 CPHS interfugers \$ 5, 551	2332	2333 OPH Sorthingue \$ 5 531	1332 OPH Setutingue	1,332 OPPs Instrumentation	2333 OPPs Instrumentation	2333 OPPs Instrumentation
2253			2333 O'Pris Introducer \$ 5. 553	2332 Off-Standarder	2,332 CPHS interfugers \$ 5, 551	2332	2333 OPH Sorthingue \$ 5 531	1332 OPH Setutingue	1,332 OPPs Instrumentation	2333 OPPs Instrumentation	2333 OPPs Instrumentation
			2402 O'H's Interneuration \$ 2,216 \$ 6,271 \$ 5,200,005 \$ 1,270	2402	Marcian	2402	2400 OPH Intronection S 2416 S 64,271 S 20,005 S 2,370	3400	3402	Mode	March Section Sectio
2402 CPPH Instrumentation \$ 3,216 \$ 61,271 \$ 300,005 \$ 1,370 2551 CPPH Tallrace Repair \$ 20	CPPH Switchgear ¢ 551		2402 Offen Intronectation \$ 1,216 \$ 5,127 \$ 5,00,000 \$ 5,1,370	2402 O'Pri Intranectation \$ 1,216 \$ 61,271 \$ 300,000 \$ 1,370 251 O'Pri Intranectation \$ 2 5 20 2549 O'Pri Intranectation \$ 5 1,000 \$ 5 1,540 2540 O'Pri Intranectation \$ 1,500 \$ 5 1,644 2321 O'Pri Intranectation \$ 1,500 \$ 5 1,644 2322 O'Pri Intranectation \$ 1,500 \$ 5 1,644 2323 O'Pri Intranectation \$ 5 1,640 \$ 5 1,540 2324 O'Pri Revold \$ 5 3,440 \$ 5 3,440 2325 O'Pri Intranectation \$ 1,500 \$ 5 1,475 \$ 3,440 2326 O'Pri Intranectation \$ 1,500 \$ 5 1,475 \$ 3,440 2327 O'Pri Intranectation \$ 1,500 \$ 5 1,475 \$ 3,440 2328 O'Pri Intranectation \$ 1,500 \$ 5 1,475 \$ 3,440 2329 O'Pri Intranectation \$ 1,500 \$ 5 1,475 \$ 3,440 2320 O'Pri Intranectation \$ 1,500 \$ 5 1,475 \$ 44,825 \$ 5,875 \$ 199,878 \$ 457,379 2320 O'Pri Intranectation \$ 2,500 \$ 5 1,475 \$ 44,825 \$ 5,875 \$ 199,878 \$ 457,379 2321 O'Printaly/Caral Lines \$ 2,500 \$ 5 1,475 \$ 444,825 \$ 5,875 \$ 1,99,878 \$ 457,379 2322 O'Pri Intranectation \$ 1,500 \$ 5 1,475 \$ 444,825 \$ 5,875 \$ 1,99,878 \$ 457,379 2323 O'Pri Intranectation \$ 1,500 \$ 5 1,475 \$ 444,825 \$ 5,875 \$ 1,99,878 \$ 457,379 2324 O'Pri Intranectation \$ 1,500	Add2 Orbit Intransectation \$ 1,216 \$ 5,1271 \$ 5,200,005 \$ 1,370	2402 O'Pri Intrace Repair S 1,216 S 16,271 S 200,005 S 1,370	2403	A 2007 Principation S 3,246 S 61,271 S 200,000 S 1,370	Add OPP Informeration S 3,246 S 61,271 S 200,005 S 1,370	2620 CPPH Infrareschaptar S	2022 OPPs Informementation S. 1,216 S. 61,271 S. 200,0005 S. 1,370
2402 CPPH Instrumentation \$ 3,216 \$ 61,271 \$ 300,005 \$ 1,370 2551 CPPH Tallrace Repair \$ 20 \$ 20			2402 O'Pris Inframentation \$ 3,216 \$ 61,271 \$ 50,000 \$ 1,370	2402 O'Pri Informentation S 3,216 S 61,271 S 20,000 S 1,370	2402 O'Phi Intramedation \$ 3,216 \$ 61,271 \$ 300,000 \$ 1,370	Add O'Ph Introduction S 1,216 S 61,271 S 20,0005 S 1,370	2007 O'Phi Infuncionation S. 3,216 S. 61,271 S. 200,0005 S. 1,370	ACCOUNTMENTATION \$ 3.26 \$ 6.275 \$ 200,000 \$ 1,370	Accordance Acc	Accordance Acc	Accordance Acc
2402			2402 O'Phi Infrare State S 3,246 S 61,271 S 30,000 S 1,370	2402 CPH Intronectation S 3,246 S 61,271 S 20,000 S 1,370	2402 CPH inturmentation \$ 3,246 \$ 61,271 \$ 30,000 \$ 1,370	Add CPH Inturnestation S 3,216 S 61,271 S 20,0005 S 1,370	2007 O'Phi Infuncionation S. 3,216 S. 61,271 S. 200,0005 S. 1,370	ACCOUNTMENTATION \$ 3.26 \$ 6.275 \$ 200,000 \$ 1,370	Accordance Acc	Accordance Acc	Accordance Acc
2402 CPPH Instrumentation \$ 3,216 \$ 61,271 \$ 300,005 \$ 1,370 2551 CPPH Tallrace Repair \$ 20			Add OPPs Informedation S 3,246 S 64,275 S 200,005 S 1,370	AUC CPM Informentation S 3,246 S 6,173 S 20,0005 S 1,700	Add OPP Informedation	1402	A207 OPP Intrumentation	ACCOUNTMENTATION \$ 3.26 \$ 6.275 \$ 200,000 \$ 1,370	Accordance Acc	Accordance Acc	Accordance Acc
2400 CPPH Instrumentation \$ 3,216 \$ 61,271 \$ 300,005 \$ 1,370 2551 CPPH Tallrace Repair \$ 20	LPPH Switchgear \$ 551		ASQUARD Comparison S. 3,248 S. 61,271 S. 300,005 S. 1,370	2402 OPPs Informentation S	ASSEST Commission S. 3,246 S. 61,271 S. 30,000 S. 1,370	ASSO OPPN Informementation S	A 200 OPPs Informentation S 2,246 S 6,1271 S 200,0005 S 1,370	A 2007 Principation S 3,246 S 61,271 S 200,000 S 1,370	Add OPP Informeration S 3,246 S 61,271 S 200,005 S 1,370	2620 CPPH Infrareschaptar S	2022 OPPs Informementation S. 1,216 S. 61,271 S. 200,0005 S. 1,370
2402 CPPH Instrumentation 5 3,216 5 61,271 5 300,005 \$ 1,370 2551 CPPH Tallrace Repair 5 20			2007 OPPs Informentation S 3,246 S 6,175 S 200,005 S 1,707	2007 OPPs Informentation S	2007 CPM Informentation S 3,246 S 6,1,71 S 200,000 S 1,770	300 OPH Informentation S 3,246 S 61,77 S 20,000 S 1,170	2007 Principal Conference S. 3,246 S. 61,271 S. 200,000 S. 1,370	ACCOUNTMENTATION \$ 3.26 \$ 6.275 \$ 200,000 \$ 1,370	Accordance Acc	Accordance Acc	Accordance Acc
2551 CPPH Talirace Repair \$ 20			255.1 CPVH Taliza Regart	255.1 O'PH Tillage Regist	255.1	255.1	2551 CPN Tation Repair	2551 OPPs Tatisse Regint	2551 OPH Tailore Report	253.	253.
2551 CPPH Talirace Repair \$ 20			255.1	233.1	255.1 CPH Taltice Repair	253.1	2551 CPN Tation Repair	2551 OPPs Tatisse Regint	2551 OPH Tailore Report	253.	253.
2551 CPPH Talirace Repair \$ 20			255.1	233.1	255.1 CPH Taltice Repair	253.1	2551 CPN Tation Repair	2551 OPPs Tatisse Regint	2551 OPH Tailore Report	253.	253.
2551 CPPH Talirace Repair \$ 20			255.1	233.1	255.1 CPH Taltice Repair	253.1	2551 CPN Tation Repair	2551 OPPs Tatisse Regint	2551 OPH Tailore Report	253.	253.
2402 CPPH Instrumentation \$ 3,216 \$ 61,271 \$ 300,005 \$ 1,370 2551 CPPH Tallrace Repair \$ 20 \$ 20			2402 O'Ph Inturnectation \$ 3,246 \$ 6,127 \$ 200,000 \$ 1,170	2402 O'Phi Infance Repair S. 2,246 S. 4,271 S. 200,0005 S. 1,370	2402 O'Phi Inturnectation \$ 3,216 \$ 61,271 \$ 300,000 \$ 1,370	Add O'Ph Introduction S 1,216 S 61,271 S 20,0005 S 1,370	2007 O'Phi Infuncionation S. 3,216 S. 61,271 S. 200,0005 S. 1,370	ACCOUNTMENTATION \$ 3.26 \$ 6.275 \$ 200,000 \$ 1,370	Accordance Acc	Accordance Acc	Accordance Acc
2402			2402 O'Phi Intronectation \$ 3,246 \$ 61,271 \$ 300,005 \$ 1,370	2407 O'Phi Infrare Regier S. 2,216 S. 2,271 S. 200,005 S. 1,370	2402 CPH inturmentation \$ 3,246 \$ 61,271 \$ 30,000 \$ 1,370	Add CPH Inturnestation S 3,216 S 61,271 S 20,0005 S 1,370	2007 O'Phi Infuncionation S. 3,216 S. 61,271 S. 200,0005 S. 1,370	ACCOUNTMENTATION \$ 3.26 \$ 6.275 \$ 200,000 \$ 1,370	Accordance Acc	Accordance Acc	Accordance Acc
2402			2407 O'Phi Infrare Region S 3,246 S 6,171 S 200,005 S 1,370	2407 O'Phi Influence Repair \$ 3,246 \$ 61,271 \$ 300,005 \$ 1,370	2402 CPH inturmentation \$ 3,246 \$ 61,271 \$ 30,000 \$ 1,370	Add CPH Inturnestation S 3,216 S 61,271 S 20,0005 S 1,370	2007 O'Phi Infuncionation S. 3,216 S. 61,271 S. 200,0005 S. 1,370	ACCOUNTMENTATION \$ 3.26 \$ 6.275 \$ 200,000 \$ 1,370	Accordance Acc	Accordance Acc	Accordance Acc
2402			2407 O'Phi Infrare Region S 3,246 S 6,171 S 200,005 S 1,370	2407 O'Phi Influence Repair \$ 3,246 \$ 61,271 \$ 300,005 \$ 1,370	2402 CPH inturmentation \$ 3,246 \$ 61,271 \$ 30,000 \$ 1,370	Add CPH Inturnestation S 3,216 S 61,271 S 20,0005 S 1,370	2007 O'Phi Infuncionation S. 3,216 S. 61,271 S. 200,0005 S. 1,370	ACCOUNTMENTATION \$ 3.26 \$ 6.275 \$ 200,000 \$ 1,370	Accordance Acc	Accordance Acc	Accordance Acc
2402 CPPH Instrumentation \$ 3,216 \$ 61,271 \$ 300,005 \$ 1,370 2551 CPPH Tallrace Repair \$ 20 \$ 20			2402 O'Ph Inturnectation \$ 3,246 \$ 61,271 \$ 300,005 \$ 1,370 2501 O'Ph Tallace Regare \$ 5,20 2549 O'Ph Collo Here Reste \$ 147 \$ 7,380 2539 O'Ph Collo Here Reste \$ 147 \$ 7,380 2530 O'Ph Tallace Reste \$ 1460 \$ 5,424 2530 O'Ph Reste \$ 1460 \$ 5,424 2530 O'Ph Reste \$ 1460 \$ 5,424 2530 O'Ph Reste \$ 1,525 \$ 5,444 2530 O'Ph Reste \$ 1,525 \$ 5,440 2531 O'Ph Reste \$ 1,525 \$ 5,400 2531 O'Ph Reste \$ 1,525 \$ 5,4	2402 O'Phi Infance Raper S. 3,246 S. 61,271 S. 300,005 S. 1,370	2402 O'Phi Inturnectation S 3,246 S 61,271 S 300,005 S 1,370	Add O'Ph Introduction S 1,216 S 61,271 S 20,0005 S 1,370	2007 O'Phi Infuncionation S. 3,216 S. 61,271 S. 200,0005 S. 1,370	ACCOUNTMENTATION \$ 3.26 \$ 6.275 \$ 200,000 \$ 1,370	Accordance Acc	Accordance Acc	Accordance Acc
2402			2402 O'Phi Intronectation \$ 3,246 \$ 61,271 \$ 300,005 \$ 1,370	2407 O'Phi Infrare Regier S. 2,216 S. 2,271 S. 200,005 S. 1,370	2402 CPH inturmentation \$ 3,246 \$ 61,271 \$ 30,000 \$ 1,370	Add CPH Inturnestation S 3,216 S 61,271 S 20,0005 S 1,370	2007 O'Phi Infuncionation S. 3,216 S. 61,271 S. 200,0005 S. 1,370	ACCOUNTMENTATION \$ 3.26 \$ 6.275 \$ 200,000 \$ 1,370	Accordance Acc	Accordance Acc	Accordance Acc
2402 CPPH Instrumentation 5 3,216 5 61,271 \$ 300,005 \$ 1,370 2551 CPPH Tailrace Repair \$ 20			2402 O'Pri fortunestation S 3,246 S 6,127 S 200,000 S 1,370	2402 O'Pri Influence Repair S	2400	Age	2007 O'Phi Infuncionation S. 3,216 S. 61,271 S. 200,0005 S. 1,370	ACCOUNTMENTATION \$ 3.26 \$ 6.275 \$ 200,000 \$ 1,370	Accordance Acc	Accordance Acc	Accordance Acc
2402 CPPH Instrumentation \$ 3,216 \$ 61,271 \$ 300,005 \$ 1,370 2551 CPPH Tallrace Repair \$ 20			Add OPPs Informedation S 3,246 S 6,1,71 S 200,000 S 1,70	AUG OPP Informentation	Add OPP Informedation	1402 OPP Intronuentation	A207 OPP Intrumentation	ACCOUNTMENTATION \$ 3.26 \$ 6.275 \$ 200,000 \$ 1,370	Accordance Acc	Accordance Acc	Accordance Acc
2551 CPPH Tallrace Repair \$ 20			255. CPY Talica Repair 5	2551 CPN Tables Repair	2551 CPM Tallous Repair	2551 OPH Talloce Repair	2551 CPN Tation Repair	2551 OPPs Tatisse Regint	2551 OPH Tailore Report	253.	253.
2551 CPPH Tallrace Repair \$ 20		352 CPPH Switchgear \$ 5.51	2551 CPP+ Tables Region 5	2553 CPP1 Taince Report	2553 CPP1 Taince Report	2553 CPP+ Tallecke Region	2553 CPPs Talloce Report	2551 OPPs Tatisse Regint	2551 OPH Tailore Report	253.	253.
2551 CPPH Tallrace Repair \$ 20	. LPPH instrumentation \$ 3.716 \$ 61.771 \$ 300.005 \$ 1.370	35 CFF	255. CPY Talica Report 5	2551 CPN Tallous Repair	2551 CPM Tallous Repair	2551 OPH Talloce Repair	2551 CPN Tation Repair	2551 OPPs Tatisse Regint	2551 OPH Tailore Report	253.	253.
		35 CFF	2549 CPP4 LOGO Meter facet	2549	23-96	2549 CPP4 CACO Meter fixed	2549	2549 OPPs CADO Meter Reset 5 147 5 728	2549 OPP LADA Meter Reset 5	2-50	2-50
		35 CFF	2549 CPVH CORO Meter frost 5 147 5 738	2549 CPVH CAGO Meter Rost	2549	2548 CPHY CADO Meter fixed	2549	2549 OPPs CADO Meter Reset 5 147 5 728	2549 OPP LADA Meter Reset 5	2-50	2-50
	CPPH Tailrace Repair	35.2 CPH Subtrigger \$ \$ \$51. 402 CPH Intrumentation \$ 3,216 \$ 61,271 \$ 300,005 \$ 1,270	2349 OPHI CLOO Meer frost S 147 S 728	2349 OPHI CLORO Meer freet	2349	2548 CPVH CLOOM More frost	2549	2549 OPPs CADO Meter Reset 5 147 5 728	2549 OPP LADA Meter Reset 5	2-50	2-50
		35.2 CPH Subtrigger \$ \$ \$51. 402 CPH Intrumentation \$ 3,216 \$ 61,271 \$ 300,005 \$ 1,270	2383	2313	2383	2333	2333 CPN Turbino Ordinal	2353 OPPs Transformer	233. OPPs Turnism Ownhaul	2933 O'PH Transformer	2933 O'PH Transformer
		352 CPH Suttinger \$ 5.551. 402 CPH Intrumentation \$ 3,216 \$ 61,271 \$ 300,005 \$ 1,270	2383	2313	2383	2333	2333 CPN Turbino Ordinal	2353 OPPs Transformer	233. OPPs Turnism Ownhaul	2933 O'PH Transformer Command	2933 O'PH Transformer
7549 CPPH CAISO Meter Reset \$ 147 \$ 739	CPPH CAISO Meter Reset S 147 S 729		2383	2313	2383	2333	2333 CPN Turbino Ordinal	2353 OPPs Transformer	233. OPPs Turnism Ownhaul	2933 O'PH Transformer Command	2933 O'PH Transformer
			2362 O'Nt Insulations	2362 O'Nt Touchomer	2362	2382	2302	2342 OPH Tandonem	3342 OPH Transformer	2332	2323
22C3 CDN Turbing Querboul	CODE Turbing Charboul		2342 O'PH Transformer	2382 CPN Transformer	2382 CPVN Transformer	2382	2302	2342 OPH Tandonem	3342 OPH Transformer	2332	2323
		332 OPPS skultrupper 5 551 QVD OPPS skultrupper 5 8,216 5 80,0095 5 1,370 SSL OPPS Tallizze Repair 5 20 5 20 OPPS FASION Reference 5 147 5 738	2383 CPVR Research	2383 CPVH Related	2383 CPVR Research	2383 CPVH Reliand	2383	2,381 OPPs Revoid	3,834 OPH Novel	2,883 CPPH Natural	2,88
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			2003 DPA In twisted Outlier \$ 9,005 \$ 12,775	2003 DFA lost based basis exert business \$ 93,005 \$ 12,775	2003	2023 OffAll to Level Cubitet 5 91,005 5 18,775 5 5 5 5 5 5 5 5 5	2003 SPAB for invert didner \$ 91,005 \$ 18,726 \$ 98 \$	Section Sect	April Defend De	2053 DFAB Low Level Outlet 5 93.00 5 18.796	2053 DFAB Loss Level Oxfelds \$ 9,1000 \$ 18,756 \$ 19,750 \$ 2,248 \$ 2,2750 \$ 19,750 \$ 475,750 \$ 2,248 \$ 2,275 \$ 199,779 \$ 475,750 \$ 2,275 \$ 2,275 \$ 199,779 \$ 475,750 \$ 2,275 \$ 2,27
		332 OPP instruteges 5 5.5.1 92 OPP instrutemation 8 3.216 5 5.00,005 5 1,370 551 OPP Instructed Regal 5 2.0 5 7.0 5 7.0 1,570 5 7.0 1,570 5 7.0 1,570 5 7.0 1,570 7.0 1,570 7.0 1,570 7.0 1,570 7.0 1,570 7.0 1,570 7.0 1,570 7.0 1,570 7.0 1,570 7.0	2386 CP Flume Detail \$ 98	2366		2386 OF form Drain	2386 CF hims Drain 5	2386	3386	2586	2586
		33	2511 O'Forebay/Canal Lining 5 22,438 S 2,870	2511 OF Forebay/Canal Linking \$ 22,438 \$ 2,270 \$ 500 Sobiotal Project Expenses \$ 819,244 \$ 224,147 \$ 464,255 \$ 589,757 \$ 199,878 \$ 457,570	25.12 O' Fontay/Card Lines Substal Project Expenses \$15.244 \$ 214.44 \$ 444.25 \$ 580,757 \$ 199,278 \$ 447,570	23.1.1 O'Fordesy/Canal Long S. 27.458 S. 27.70	Solitor CF Ordinary Clarad Library Solitoral Project Expenses SE2.44 S 21.44 S 44.22 S 589,757 S 199,779 \$ 457,579	201	231	23.1 Of Forebay(Canal Lines)	231. Of Forebay(Canal Lines) Substant Project Expenses \$ 18,924 \$ 214,47 \$ 544,82 \$ 589,957 \$ 199,078 \$ 447,570 \$ 199,078 \$ 547,570 \$ 199,078 \$ 19
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The Chicago Park Powerhouse includes five facilities. The Dutch Flat #2 afterbay is the diversion for the Chicago Park Flume. The Little York Basin and Chicago Park Forebay are both part of the system used solely to transport water to the powerhouse.

Projects 2353, 2362, and 2383 were recently combined into one project for future accounting purposes.

Projects related to SCADA upgrade were evenly allocated between the Chicago Park Powerhouse, Dutch Flat #2 Powerhouse, Rollins Powerhouse and Overhead.

Small charges on some projects (2551 for example) may be related to previous accounting direction which required establishment of a project number for any project that may be included in the five-year plan or represent projects with little activity that were scheduled for later years.

Project 2469 was created in an effort to track costs associated with NERC compliance and is allocated between the Chicago Park and Dutch Flat #2 Powerhouses. Projects 6927 and 2013098 were created to track costs associated with acquiring rights on PG&E parcels that underlaid NID facilities. As a result of PG&E's first bankruptcy they were forced to donate land or place conservation easements on retained land. NID has facilities on some of the

land. Costs associated with the District's activities to protect or secure necessary rights are allocated between the Chicago Park and Dutch Flat #2 Powerhouses.



Chicago Park

Future Projects / Concerns

Projects in 5 Year Capital Improvement Plan

- Station batteries complete in late 2023/early 2024 (some batteries arrived damaged from supplier)
- RTU replacement complete during September 2024 outage
- Powerhouse overhaul
- 2026 outage for a total of 8 weeks
- Current cost estimate is \$21.7 million

Longer Term Planning

Tailrace and forebay erosion

2018 2019 2020 2021 2022 1 2022 1 2022 1 2022 1 2023 2 2 2 2 2 2 2 2 2	2018 2019 2020 2021 2022 Average 5 5,621,379 5 5,725,698 5 5,800,114 5 5,892,408 5 5,983,868 5 5,804,693				uc/	゚゚゚゚゚゚゚゚゚゚゚゚゚	JEH	ses		
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S7210	Raft #2 Furme	Operating Expenses								
57211 Dutch Flat #2 Forebay \$ 40,213 \$ 43,562 \$ 49,336 \$ 41,660 \$ 125,727	Hall R2 Forebay			ş						
Subtotal Operating Expenses 623,046 564,376 5737,003 5621,674 5683,666 \$	Subtotal Operating Expenses 623,046 654,376 737,003 621,674 5 683,666 663,953 electrical Drawing \$ 41,756 \$ 17,322 \$ 5,548 sialance of Plant PLC \$ 36,2874 \$ 8,208 standby Generator \$ 589 \$ 15,227 \$ 20,419 PFB Fiber Optic \$ 28,066 \$ 17,183 \$ 17,183 ire Suppression Upgrade \$ 1,744 \$ 560 \$ 17,505 \$ 8,706 \$ 2,232 ne Footing Regaleris \$ 6,182 \$ 342,410 \$ 342,410 \$ 500 \$ 49,462 \$ 45,382 \$ 179,306 Upgrade (25%) \$ 50,037 \$ 46,493 \$ 348 \$ 348 \$ 348			ş						
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2478 DPPH Electrical Drawing \$ 41,756 \$ 1,7322 \$ 5,548 2348 DPPH Salance of Plant PtC \$ 362,874 \$ 8,208 2483 DPPH Sandby Generator \$ 589 \$ 15,227 \$ 20,419 2355 DPPH-DFFF Filber Optic \$ 28,066 \$ 22,066 \$ 17,183 2544 DPPH Colling Water Ulgrade \$ 17,183 \$ 50 \$ 17,505 \$ 8,706 \$ 2,232 2229 DFFH Imper Gooding Repairs \$ 6,182 \$ 342,410 \$ 342,410	Jalaince of Plant PLC \$ 36,2874 \$ 8,0.08 Transchip Generator \$ 589 \$ 15,227 \$ 20,419 FFB Fiber Optic \$ 28,066 \$ 17,183 Ire Suppression Upgrade \$ 1,744 \$ 560 \$ 17,505 \$ 8,706 \$ 2,232 The Footing Repairs \$ 6,182 \$ 342,410 Subtotal Project Expenses \$ 7,925 \$ 342,969 \$ 450,790 \$ 49,462 \$ 45,382 \$ 179,306 Upgrade (25%) \$ 50,037 \$ 46,493 \$ 348		Subtotal Operating Expe	LIIJCJ Ç	023,040 \$	034,370 9	757,005	021,074 9	405,000 \$	003,333
2348 DPPH Salance of Plant PLC \$ 362,874 \$ 8,208 2483 DPPH Sandy Generator \$ 589 \$ 15,227 \$ 20,419 2355 DPPH-DFFB Fiber Optic \$ 28,066 \$ 12,227 \$ 12,227 2544 DPPH Cooling Water Ugrade \$ 1,744 \$ 560 \$ 17,505 \$ 8,706 \$ 2,232 2240 DPPH Fire Suppression Ugrade \$ 1,744 \$ 560 \$ 17,505 \$ 8,706 \$ 2,232 2229 DF Fiume Footing Repairs \$ 6,182 \$ 342,410	Jalaince of Plant PLC \$ 36,2874 \$ 8,0.08 Transchip Generator \$ 589 \$ 15,227 \$ 20,419 FFB Fiber Optic \$ 28,066 \$ 17,183 Ire Suppression Upgrade \$ 1,744 \$ 560 \$ 17,505 \$ 8,706 \$ 2,232 The Footing Repairs \$ 6,182 \$ 342,410 Subtotal Project Expenses \$ 7,925 \$ 342,969 \$ 450,790 \$ 49,462 \$ 45,382 \$ 179,306 Upgrade (25%) \$ 50,037 \$ 46,493 \$ 348	Project Expenses								
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2240 DFPH Fire Suppression Upgrade \$ 1,744 \$ 560 \$ 17,505 \$ 8,706 \$ 2,232 2229 DF Flume Footing Repairs \$ 6,182 \$ 342,410	ire Suppression Upgrade 5 1,744 5 560 5 17,505 5 8,706 5 2,232 me Footing Repairs 5 6,182 5 342,410 Subtotal Project Expenses 5 7,925 5 342,969 5 450,790 5 49,462 5 45,382 5 179,306 Upgrade (25%) 5 50,037 5 46,493 5 348						28,066	e	17 102	
2229 DF Flume Footing Repairs \$ 6,182 \$ 342,410	ne Footing Repairs \$ 6,182 \$ 342,410 Subtotal Project Expenses \$ 7,925 \$ 342,969 \$ 450,790 \$ 49,462 \$ 45,382 \$ 179,306 Upgrade (25%) \$ 50,037 \$ 46,493 \$ 348			\$	1.744 S	560 S	17.505 \$	8.706 S		
Subtotal Project Evoposes \$ 7,925 \$ 342,969 \$ 450,790 \$ 49,462 \$ 45,322 \$	Upgrade (25%) \$ 50,037 \$ 46,493 \$ 348			\$						
3050501110jeet Expenses \$ 1,525 \$ 342,505 \$ 450,150 \$ 45,402 \$			Subtotal Project Expe	enses \$	7,925 \$	342,969 \$	450,790 \$	49,462 \$	45,382 \$	179,306
Allocated Project Expenses		Allocated Project Eve	onror							
				•	50.037 \$	46 493 Š	348			
1039 SCADA Upgrade Study (25%) \$ 57 \$ 981 \$ 64 \$ 2	Ungrade Study (25%) S 57 S 981 S 64 S 2							2		
2469 Electric Reliability Services (50%) \$ 31,424 \$ 17,420 \$ 2,568						\$	31,424 \$	17,420 \$	2,568	
6927 Lower Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,984 \$ 803		6927	Lower Division Prop Acq (50%)	\$	14,577 \$	7,172 \$	4,984 \$	803		
201308 Lower Division Prop Acq (50%) \$ 10,650 \$ 63 \$ 4,659 \$ 18		201308								
Subtotal Allocated Project Evnenses \$ 75.321 \$ 54.708 \$ 41.479 \$ 18.242 \$ 2.568 \$	Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,984 \$ 803 Division Prop Acq (50%) \$ 10,650 \$ 63 \$ 4,659 \$ 18		Subtotal Allocated Project Expenses	\$	75,321 \$	54,708 \$	41,479 \$	18,242 \$	2,568 \$	38,46
3450tal Allocated 1 10ject Expenses 9 75,522 9 34,700 9 42,475 9 20,542 9 2,500 9	Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,984 \$ 803 Division Prop Acq (50%) \$ 10,650 \$ 63 \$ 4,659 \$ 18	Total Evnenses		Ś	706,292 \$	1.052.054 \$	1.229.273 \$	689.378 \$	731.615	881.722
	Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,984 \$ 803 Division Prop Acq (50%) \$ 5 10,550 \$ 63 \$ 4,559 \$ 18 al Allocated Project Expenses \$ 75,321 \$ 54,708 \$ 41,479 \$ 18,242 \$ 2,568 \$ 38,464									
	Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,984 \$ 803	201308								
	Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,984 \$ 803 Division Prop Acq (50%) \$ 10,650 \$ 63 \$ 4,659 \$ 18		Subtotal Allocated Project Expenses	\$	75,321 \$	54,708 \$	41,479 \$	18,242 \$	2,568 \$	38,46
Substitut Anticetted 1 (0) CEL Expenses 9 15,500 9 12,475 9 10,242 9 2,500 9	Division Prop Acq (50%) \$ 14,577 \$ 7,172 \$ 4,984 \$ 803 Division Prop Acq (50%) \$ 10,650 \$ 63 \$ 4,659 \$ 18	Total Evnences		\$	706,292 \$	1,052,054 \$	1,229,273 \$	689,378 \$	731,615	881,722
	Division Prop Act (50%) \$ 14,577 \$ 7,172 \$ 4,984 \$ 803 Division Prop Act (50%) \$ 10,550 \$ 63 \$ 4,659 \$ 18 al Allocated Project Expenses \$ 75,321 \$ 54,708 \$ 41,479 \$ 18,242 \$ 2,568 \$ 38,464									

The Dutch Flat #2 Powerhouse includes three facilities. The Dutch Flat #2 Flume and Forebay are integral to the powerhouse and do not serve a purpose for water ratepayers. The Dutch Flat #2 Powerhouse consistently produces a profit.

Project 2544 was completed in September of 2023.

Project allocations are based on the methodology described on the Chicago Park Revenue and Expenses slide.

Dutch Flat #2

Future Projects / Concerns



Projects in 5 Year Capital Improvement Plan

- Backup generator (2024)
- Liner repair upstream of Forebay
- RTU Replacement

Longer Term Planning

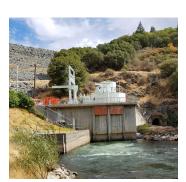
Mechanical Refurbishment (TSV, Wicket Gates, etc.)

							ses			
		2018	2019		2020		2021		2022	Average
Gross Revenue	\$	5,645,458	\$ 5,715	035 \$	5,807,549	\$	5,893,076	\$	5,976,365	\$ 5,807,49
Operating Expenses										
57400	Rollins Powerhouse \$	356,051.00	\$ 402,65	2.06 \$	473,557.53	\$	486,964.75	\$	411,479.07	
	Subtotal Operating Expenses \$	356,051	\$ 402	652 \$	473,558	\$	486,965	\$	411,479	\$ 426,14
Project Expenses 2351	RPH OCB Replacement			,	16,927.18		232,038.55	,	269.08	
2393	RPH Balance of Plant			\$ \$	1,037.27		323,762.63		269.08 897.64	
2392	RPH Governor Replacement				1,037.27		323,702.03	٠٠٠٠٠	272.24	
2394	RPH Relay Protection Upgrade			ς	1,903.91	ς	32,249.03	\$	188,596.19	
	Subtotal Project Expenses \$	-	\$	- \$	19,868		588,050		190,035	\$ 159,59
Allocated Project Exper										
201502 1039	SCADA Upgrade (25%) \$ SCADA Upgrade Study (25%) \$	50,037.41 56.85		2.72 \$ 1.26 \$	348.20 63.85		1.59			
1039	Subtotal Allocated Project Expenses \$	50,094		474 \$	412		1.59	Ś		\$ 19.59
	,	,	•			•	_	•		,
Total Expenses	\$	406,145	\$ 450	,126 \$	493,838	\$	1,075,017	\$	601,514	\$ 605,32
Net Revenue	\$	5 220 212	¢ 5.264	no ¢	5.313.711	ć	A 919 050	ć	5 27/1 951	\$ 5,202,169

Only expenses associated with the Rollins Powerhouse are included on this summary. For the purposes of this analysis the Rollins Dam is considered a water related facility. The Rollins Powerhouse consistently produces a profit.

Rollins

Future Projects / Concerns

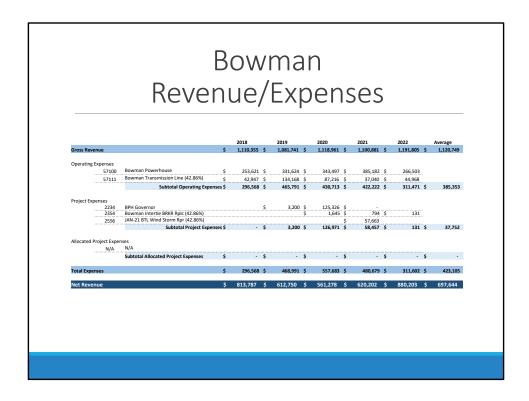


Projects in 5 Year Capital Improvement Plan

- Governor Replacement
- RTU Replacement

Longer Term Planning

• N/A



This slide presents expenses associated with the Powerhouse and the NID portion of the Bowman Transmission Line (42.86%). The remaining portion of the transmission line costs are billed to Grey Rock Hydro and are shown as revenue.

Operating expenses at the Bowman Powerhouse are high due to the remote nature of the powerhouse however, the powerhouse consistently produces a profit.





Bowman

Future Projects / Concerns

Projects in 5 Year Capital Improvement Plan

• Intertie Breaker Replacement (42.68%)

Longer Term Planning

- Automation of canal headgate and improved remote operation capability
- Transmission line poles to be evaluated in late 2023 to mid 2024

		2018	2019	2020	2021	2022	Average
Gross Revenue		\$ 476,289 \$	759,043 \$	228,854 \$	230,135 \$	509,783 \$	440,821
Operating Expenses 57700	Combie South Powerhouse	\$ 177,522 \$	181,639 \$	246,225 \$	204,270 \$	262,102	
37700	Subtotal Operating Expenses		181,639 \$	246,225 \$	204,270 \$	262,102 \$	214,351
Project Expenses 2163	CSPH Trash Rack	\$ 812,576 \$	1,407				
2168	CSPH Electrical Upgrade	\$ 27,675 \$	14,148 \$	155,541 \$	95,636 \$	9,138	
2554 2210	CSPH Fire Detection Upgrade CSPH CAISO Mtr/Swtchgr	\$ 7,693 \$	146,002 \$	\$ 48,239	21,593 \$	6,266	
2210	Subtotal Project Expenses		161,557 \$	203,780 \$	117,229 \$	15,404 \$	269,183
Allocated Project Expe	nses N/A						
N/A	Subtotal Allocated Project Expenses	s - s	- \$	- \$	- \$	- \$	-
			·	·		·	
Total Expenses		\$ 1,025,465 \$	343,196 \$	450,005 \$	321,499 \$	277,506 \$	483,534
Net Revenue		\$ (549,176) \$	415.847 \$	(221.151) \$	(91,364) \$	232.278 \$	(42,713)

Only expenses associated with the Combie South Powerhouse are included on this summary. For the purposes of this analysis the Van Giesen (Combie) Dam is considered a water related facility.

Revenue at the Combie South Powerhouse is highly variable due to the run-of-river nature of the powerhouse. For the purposes of comparison, 2018 can be considered an average year from a hydrologic standpoint. Revenue comparisons across years are complicated by way in which PG&E imports water into the watershed which can vary significantly year to year.

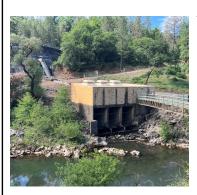
The District completed two large capital projects during the 2018-2022. The first was a new trashrack at the intake. The new trashrack has a life expectancy of at least 30-50 years. The second was a replacement transformer and the upgrades

necessary to sell power on the CAISO market. The new transformer should last 30-50 years. It is difficult to estimate the lifespan of the CAISO upgrades as new rules may change metering/monitoring requirements.

Combie South is expected to be profitable in nearly all future years.

Combie South

Future Projects / Concerns



Projects in 5 Year Capital Improvement Plan

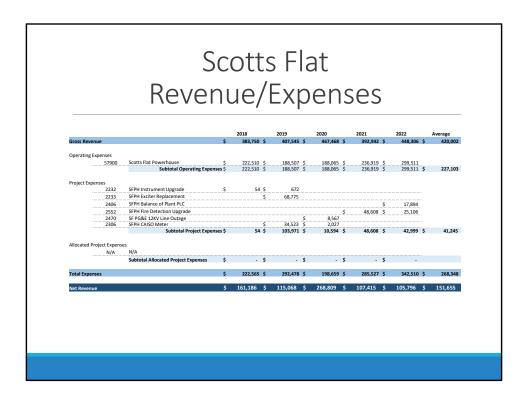
• N/A

Longer Term Planning

- Recent profitability impacted by large capital projects in 2018 and 2020
- Powerhouse is "run-of-river" so revenue is significantly impacted by
- Future profitability could be improved by improving remote operation capabilities
- Current operations result in many start/stop cycles that will impact long term maintenance requirements
- Penstock coating and corrosion is being monitored

Other Consideration

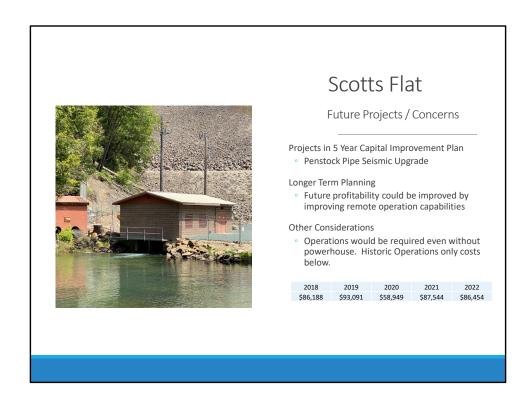
Continue to consider short term market-based power purchase agreements



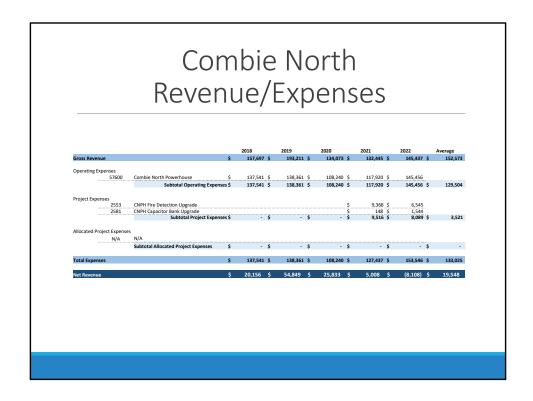
Only expenses associated with the Scotts Flat Powerhouse are included on this summary. For the purposes of this analysis the Scotts Flat Dam is considered a water related facility.

Revenue at Scotts Flat is relatively consistent. Generation is largely driven by water demands which generally occur during periods of peak pricing under the Renewable Energy Self-Generation Bill Credit Transfer (RES-BCT) program.

The Scotts Flat Powerhouse consistently produces a profit.

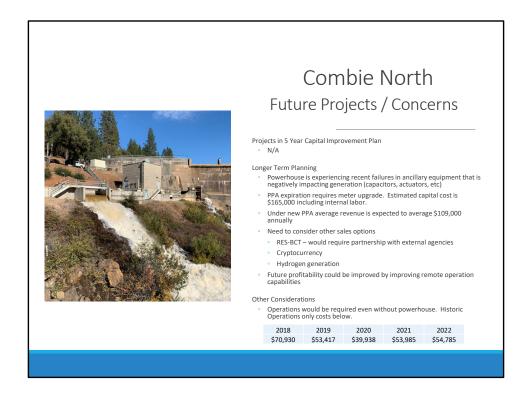


The Scotts Flat and Combie North Powerhouses are unique from the other powerhouses in that there would be costs associated with operating these facilities for water delivery even if the powerhouses did not exist. The cost table shows the costs associated with operations of the facilities only. Maintenance and other expenses have been removed.



Only expenses associated with the Combie North Powerhouse are included on this summary. For the purposes of this analysis the Van Giesen (Combie) Dam is considered a water related facility.

There were no large capital projects completed at the powerhouse during the period reviewed. This is to be as expected, as the powerhouse is the newest in the NID fleet. Recently however, the powerhouse has experienced significant failures in the capacitor bank and one of the large value actuators. In 2023 annual generation and the corresponding revenue is expected to be well below average due previously listed equipment failure.



The future of the Combie North Powerhouse is complicated. While the turbine/generator combination appears to be well made and has not shown signs of excessive wear the ancillary systems have not proven reliable. In recent years the station has been plagued by failures in the capacitor bank which has reduced the ability to operate during shoulder seasons. The bank was replaced in November of 2023 which should significantly improve performance.

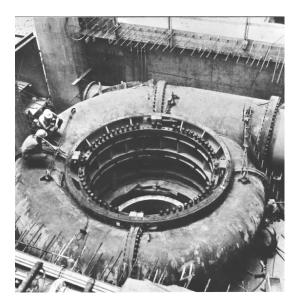
A large capital upgrade is required to sell power on the open market under a new PPA and rates under the new PPA are expected to be lower than those currently earned (approximately \$105/MWh under current PPA vs \$85/MWh under a market based PPA).

Staff has been considering alternative ways to monetize the output from the

powerhouse and recommends using the powerhouse as a pilot to test the three alternatives considered.

- Alternative 1: Seek other large power users and form a Joint Powers Authority.
 RES-BCT credits could then be monetized by offsetting JPA power usage.
- Alternative 2: Selling the power generated by the powerhouse to a crypto currency miner. Presumably the miner would pay the District for the power produced and a ground lease that would be necessary to locate equipment behind the meter at the powerhouse. This approach has been used effectively at similarly sized generators in the United States. Combie North could be an attractive site due to onsite water which can be used for cooling the necessary equipment.
- Alternative 3: Use power generated to produce green hydrogen. Hydrogen generation requires water and electricity, both of which are available at Combie North. Generated hydrogen would then be sold to a gas supplier and green hydrogen is currently more valuable than hydrogen produced by other technologies. This approach is being piloted at other hydropower agencies in the United Station.

The Scotts Flat and Combie North Powerhouses are unique from the other powerhouses in that there would be costs associated with operating these facilities for water delivery even if the powerhouses did not exist. The cost table shows the costs associated with operations of the facilities only. Maintenance and other expenses have been removed.



Part 3: Water Delivery Related Expenses

Quantify Hydro Subsidy to Water Ratepayers





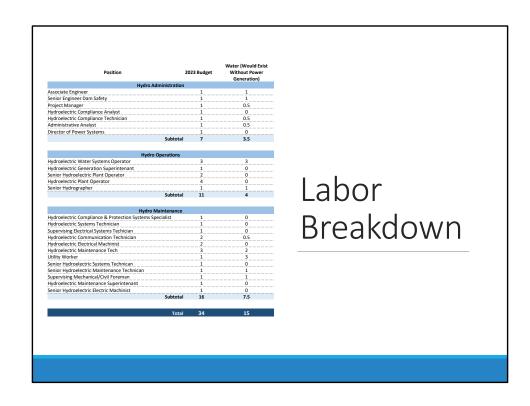
Current Water Subsidy

Question:

 If NID had never built the powerhouses, how much would ratepayers have to fund to operate and maintain the system of dams and conveyances necessary to deliver water to, and store water in, the lower division?

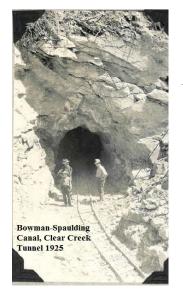
Methodology:

- Line by line review of the 2023 budget.
 - Water (cost would exist even if the powerhouses did not, e.g. DSOD fees, expenses on Bowman-Spaulding Canal)
- Power (expense is related entirely to power function of Department, e.g. FERC, NERC)



50112-52608: FED/ST/CO FEES	2023 Budget (\$)	Water (Would Exist Without Power Generation (\$))	Power (Attributable Solely to Powe Generation (\$)
Water Rights Fees	150,000	75,442	74,558
FERC Admin Fees	131,250	-	131,250
FERC Land Fees	183,750	183,750	-
Hazardous Waste Fees	5,000	-	5,000
SYC/DCPH Taxes	200,000	200,000	-
USDA Forest Service	10,000	10,000	-
USGS	76,650	-	76,650
CA Water Resources Dam Fees	483,000	421,000	62,000
Other Fees (WREGIS, DMV, CAISO, FCC)	5,000	2,000	3,000
Tota	1,244,650	892,192	352,458

Sample Breakdown of Costs



Results

Little or no change to employee counts associated with the Board, Administration, Human Resources, Finance, Safety, Communications, Purchasing

 Likely some possibility of reduction in Information Technology, Engineering, Fleet

Eliminates payment to Fund 70 with little reduction to overall Fund

If NID had never built the powerhouses, water ratepayers would have had to budget §12,636,143 in 2023 to operate and maintain the system of dams and conveyances necessary to deliver water to, and store water in, the lower division.

Similar amounts would be included in all future budgets



Part 4: The Future

Key Risks
Future Considerations
Recommendations

Ecy Risks People and Training • Attrition: • 2018 – 2022 = 7-16% attrition rate • Approximately 22% of department was eligible to retire at beginning of 2023 • Succession Planning: Recruiting problems makes succession planning critical • Staffing Levels: PCWA, SFWP, and YWA average 5 people per facility (dam or powerhouse). NID averages 2 (excludes 60kV line, diversions, and SYC/DCPH). Regulatory Environment • Unimpaired flows • Relicensing • Increasing regulatory requirements • Dam Safety • Aquatic Invasive Species • NERC

Additional information on the costs associated with relicensing can be found in Item 4 of the July 8, 2020 Board of Directors meeting located at the link below. The Staff Report provides the estimated annual cash flow for implementation of the new FERC license for the Yuba-Bear Project over 40 years. The report provides planning-level detail and estimates on external costs for consultants, materials, and contractors to perform specific license-related efforts (studies, development of mitigation plans, design, construction, specialty operation and inspections, and subject matter expertise support). It is important to note that the report does not include estimates for NID staffing levels (or associated costs) in the analysis.

Link to item #4 from the July 8, 2020 NID Board of Director Meeting: https://www.nidwater.com/files/5a6dd5092/07082020 BOD Item 4.pdf

Key Risks

Infrastructure & Technology

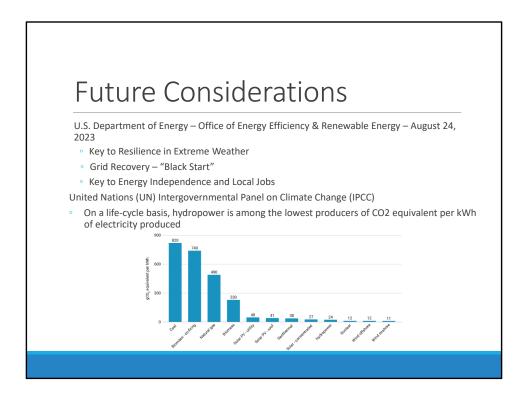
- Increasing IT/OT Demand
- Maintenance Tracking
- OT Workload and Staffing
- Cybersecurity
- Physical Security

Operating Environment

- Capacity Planning Capital Projects
- Portfolio Growth (Deer Creek & South Yuba Canal)
- Climate Change

Electricity Revenue

• Supply chain constraints and inflationary factors have placed upward pressure on installed cost of competing electricity generation resources



Link to U.S. Department of Energy article titled "Hydropower Is Key to a Clean Energy Future—Here's Why" dated August 24, 2023:

https://www.energy.gov/eere/water/articles/hydropower-key-clean-energy-future-heres-why

The graphic shown is from the World Nuclear Association based on data from Annex III of Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (2014).

https://www.world-nuclear.org/information-library/energy-and-the-environment/carbon-dioxide-emissions-from-electricity.aspx

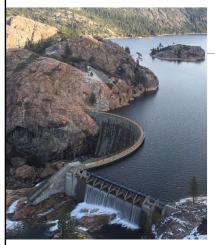
https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc_wg3_ar5_annex-iii.pdf

Future Considerations

Market Trends

- Karbone October 31, 2023 CAISO Summary
- 2023 PCC1 transactions continued to climb, hitting a reported all time high peak of Index + \$74.00 this month, an increase of \$4.00 from September.
- Fears do exist among some load servers that the increase in RPS procurement costs and seeming impossibility of finding sufficient supply, coupled with similar trends in the RA market, will lead to either regulatory intervention (which could undermine the efficacy of both programs), excessively high power rates, or even the failure of some load servers over time.
- CAISO Q2 2023 Report on Market Issues and Performance 11/16/2023
 - Natural gas prices fell from extraordinarily high levels in December, averaging less than Q2 2022. Average gas prices at Henry Hub, the national index, were less than one third of prices in the same quarter of last year, while prices at both California hubs fell to less than 60 percent (Figure E.1). This resulted in lower system marginal energy prices across the market.
- Prices were significantly lower than the same quarter of 2022 (Figure E.2). Day-ahead and real-time prices fell by half in most areas due to lower natural gas prices and higher renewable generation.
- Hydroelectric generation almost doubled, substituting for both natural gas generation and lower net imports. Hydroelectric generation was higher than 2020, 2021, or 2022.

Link to CAISO report titled "Q2 2023 Report on Market Issues and Performance" dated November 16, 2023: https://www.caiso.com/Documents/2023-Second-Quarter-Report-on-Market-Issues-and-Performance-Nov-16-2023.pdf



Recommendations

Identify and develop relationships with consultants and vendors to begin early planning for Yuba-Bear Power Purchase Agreement

Pilot alternative sales models at Combie North Powerhouse

Continue progress on Hydro Master Plan as identified in NID Strategic Plan (due by end of 2025)

Continue coordination with IT on IT/OT Master Plan

Regularly monitor and update risks and strategies used to mitigate them

Questions and Discussion



			Chicago P	ark	Powerhou	ıse							
			2018		2019		2020		2021		2022		Average
Gross Revenue		\$	10,131,747	\$	10,311,570	\$	10,465,264	\$	10,626,541	\$	10,768,136	\$	10,460,652
Operating Expenses	S												
57300	Chicago Park Powerhouse	\$	541,694	\$	594,450	\$	626,643	\$	584,102	\$	656,759		
57301	Dutch Flat #2 Afterbay	\$	103,399	\$	61,918	\$	36,763	\$	64,286	\$	60,858		
57302	Chicago Park Flume	\$	17,245	\$	59,692	\$	98,957	\$	44,995	\$	104,263		
57303	Little York Basin	\$	634	\$	14,711	\$	4,216	\$	4,025		12,492		
57304	Chicago Park Forebay	\$	2,149	\$	3,903	\$	27,915	\$	45,206	\$	17,336		
	Subtotal Operating Expenses	\$	665,121	\$	734,675	\$	794,494		742,614	\$	851,707	\$	757,722
Draiast Evpansas													
Project Expenses	CDDU Assess Based	۲	70 222	<u>۲</u>	25 520	۲	125 522	Ļ	94.663	Ļ	20 102		
6877	CPPH Access Road	\$	70,322	>	35,529	\$	135,522	, ,	84,662	, \$	29,183		
2484	CPPH Standby Generator					\$	19,417			Ş	401		
2471	CPPH Electrical Drawing	<u>, </u>	40.004	<u> </u>	1 427	\$	50,772						
2006	CHPH Switchboard/Relays	<u>\$</u>	48,904	>	1,437								
2133	CPPH Rough Operating Zone	\$	203,057		452 240		474 222		474 540		42.476		
2164	CPPH Fire Suppression	\$	8,645		153,349	\$	174,223	>	171,542	>	12,176		
2165	CPPH Balance of Plant PLC	\$	396,409	\$	155								
2352	CPPH Switchgear					\$	551						
2402	CPPH Instrumentation			\$	3,216	\$	61,271		300,005	\$	1,370		
2551	CPPH Tailrace Repair							\$	20				
2549	CPPH CAISO Meter Reset					\$	147	\$	738				
2353	CPPH Turbine Overhaul							\$	15,260		51,644		
2362	CPPH Transformer							\$	14,660	\$	48,324		
2383	CPPH Rewind									\$	52,840		
2598	CPPH RTU Replacement									\$	3,940		
2006-1	CPPH Relays - Legal			\$	1,735	\$	384						
2053	DFAB Low Level Outlet	\$	91,905	\$	18,726								
2386	CP Flume Drain					\$	98						
2511	CP Forebay/Canal Lining					\$	22,438		2,870				
	Subtotal Project Expenses	\$	819,244	\$	214,147	\$	464,825	\$	589,757	\$	199,878	\$	457,570
Allocated Project Ex	xpenses												
201502	SCADA Upgrade (25%)	\$	50,037	Ś	46,493	Ś	348						
1039	SCADA Upgrade Study (25%)	\$	57			\$	64	Ś	2				
2469	Electric Reliability Services (50%)	<u>Y</u>		Y		<u>\$</u>	31,424		17,420	Ś	2,568		
6927	Lower Division Prop Acq (50%)	\$	14,577	\$	7,172	\$	4,984	\$	803	Υ	2,300		
201308	Lower Division Prop Acq (50%)	\$	10,650		63	\$		\$	18				
201300	Subtotal Allocated Project Expenses	\$	75,321		54,708		41,479		18,242	Ś	2,568	Ś	38,464
	ountotal Allocated Project Expenses		,	•	·	-	•				·		·
Total Expenses		\$	1,559,686	\$	1,003,530	\$	1,300,798	\$	1,350,614	\$	1,054,153	\$	1,253,756
Net Revenue		\$	8,572,061	\$	9,308,040	\$	9,164,466	\$	9,275,927	\$	9,713,983	\$	9,206,895

			Dutch Flat	#2	Powerhou	se				
			2018		2019		2020	2021	2022	Average
Gross Revenue	9		\$ 5,621,379	\$	5,725,698	\$	5,800,114	\$ 5,892,408	\$ 5,983,868	\$ 5,804,693
Operating Expe	enses									
572	200	Dutch Flat #2 Powerhouse	\$ 545,477	\$	463,253	\$	582,358	\$ 481,770	\$ 483,143	
572	210	Dutch Flat #2 Flume	\$ 37,356	\$	147,561	\$	105,309	\$ 98,244	\$ 74,796	
572	211	Dutch Flat #2 Forebay	\$ 40,213	\$	43,562	\$	49,336	\$ 41,660	\$ 125,727	
		Subtotal Operating Expenses	\$ 623,046	\$	654,376	\$	737,003	\$ 621,674	\$ 683,666	\$ 663,953
Project Expens	ses									
24	78	DFPH Electrical Drawing				\$	41,756	\$ 17,322	\$ 5,548	
23	48	DFPH Balance of Plant PLC				\$	362,874	\$ 8,208		
24	83	DFPH Standby Generator				\$	589	\$ 15,227	\$ 20,419	
23	55	DFPH-DFFB Fiber Optic				\$	28,066			
25	44	DFPH Cooling Water Upgrade							\$ 17,183	
22	40	DFPH Fire Suppression Upgrade	\$ 1,744	\$	560	\$	17,505	\$ 8,706	\$ 2,232	
22	29	DF Flume Footing Repairs	\$ 6,182	\$	342,410					
		Subtotal Project Expenses	\$ 7,925	\$	342,969	\$	450,790	\$ 49,462	\$ 45,382	\$ 179,306
Allocated Proje	ect Exp	penses								
201	.502	SCADA Upgrade (25%)	\$ 50,037	\$	46,493	\$	348			
10	39	SCADA Upgrade Study (25%)	\$ 57	\$	981	\$	64	\$ 2		
24	-69	Electric Reliability Services (50%)				\$	31,424	\$ 17,420	\$ 2,568	
69	27	Lower Division Prop Acq (50%)	\$ 14,577	\$	7,172	\$	4,984	\$ 803		
201	.308	Lower Division Prop Acq (50%)	\$ 10,650	\$	63	\$	4,659	\$ 18		
		Subtotal Allocated Project Expenses	\$ 75,321	\$	54,708	\$	41,479	\$ 18,242	\$ 2,568	\$ 38,464
Total Expenses	s		\$ 706,292	\$	1,052,054	\$	1,229,273	\$ 689,378	\$ 731,615	\$ 881,722
Net Revenue			\$ 4,915,087	\$	4,673,644	\$	4,570,841	\$ 5,203,030	\$ 5,252,252	\$ 4,922,971

			Rollins	Pov	werhouse					
			2018		2019	2020	2021	2022		Average
Gross Revo	enue		\$ 5,645,458	\$	5,715,035	\$ 5,807,549	\$ 5,893,076	\$ 5,976,365	\$	5,807,497
Operating	Expenses									
	57400	Rollins Powerhouse	\$ 356,051.00	\$	402,652.06	\$ 473,557.53	\$ 486,964.75	\$ 411,479.07		
		Subtotal Operating Expenses	\$ 356,051	\$	402,652	\$ 473,558	\$ 486,965	\$ 411,479	\$	426,141
Project Exp	penses									
	2351	RPH OCB Replacement				\$ 16,927.18	\$ 232,038.55	\$ 269.08		
	2393	RPH Balance of Plant				\$ 1,037.27	\$ 323,762.63	\$ 897.64	-	
	2392	RPH Governor Replacement						\$ 272.24	-	
	2394	RPH Relay Protection Upgrade				\$ 1,903.91	\$ 32,249.03	\$ 188,596.19	=	
		Subtotal Project Expenses	\$ -	\$	-	\$ 19,868	\$ 588,050	\$ 190,035	\$	159,591
Allocated I	Project Expe	nses								
	201502	SCADA Upgrade (25%)	\$ 50,037.41	\$	46,492.72	\$ 348.20				
	1039	SCADA Upgrade Study (25%)	\$ 56.85	\$	981.26	\$ 63.85	\$ 1.59		-	
		Subtotal Allocated Project Expenses	\$ 50,094	\$	47,474	\$ 412	\$ 2	\$ -	\$	19,596
Total Expe	enses		\$ 406,145	\$	450,126	\$ 493,838	\$ 1,075,017	\$ 601,514	\$	605,328
Net Reve	nue		\$ 5,239,312	\$	5,264,909	\$ 5,313,711	\$ 4,818,059	\$ 5,374,851	\$	5,202,169

			Bowman	Po	werhouse					
			2018		2019	2020	2021	2022		Average
Gross Reve	enue		\$ 1,110,355	\$	1,081,741	\$ 1,118,961	\$ 1,100,881	\$ 1,191,805	\$	1,120,749
Operating E	Expenses									
	57100	Bowman Powerhouse	\$ 253,621	\$	331,624	\$ 343,497	\$ 385,182	\$ 266,503		
	57111	Bowman Transmission Line (42.86%)	\$ 42,947	\$	134,168	\$ 87,216	\$ 37,040	\$ 44,968	-	
_		Subtotal Operating Expenses	\$ 296,568	\$	465,791	\$ 430,713	\$ 422,222	\$ 311,471	\$	385,353
Project Exp	enses									
	2234	BPH Governor		\$	3,200	\$ 125,326	\$ -			
	2354	Bowman Intertie BRKR Rplc (42.86%)				\$ 1,645	\$ 794	\$ 131	-	
	2556	JAN-21 BTL Wind Storm Rpr (42.86%)					\$ 57,663		-	
-		Subtotal Project Expenses	\$ -	\$	3,200	\$ 126,971	\$ 58,457	\$ 131	\$	37,752
Allocated P	roject Expe	enses								
	N/A	N/A								
_		Subtotal Allocated Project Expenses	\$ -	\$	-	\$ -	\$ -	\$ -	\$	-
Total Exper	nses		\$ 296,568	\$	468,991	\$ 557,683	\$ 480,679	\$ 311,602	\$	423,105
Net Reven	nue		\$ 813,787	\$	612,750	\$ 561,278	\$ 620,202	\$ 880,203	\$	697,644

			C	ombie Sou	th	Powerhous	se					
				2018		2019		2020	2021	2022		Average
Gross Reve	enue		\$	476,289	\$	759,043	\$	228,854	\$ 230,135	\$ 509,783	\$	440,821
Operating I	Expenses											
	57700	Combie South Powerhouse	\$	177,522	\$	181,639	\$	246,225	\$ 204,270	\$ 262,102		
-		Subtotal Operating Expenses	\$	177,522	\$	181,639	\$	246,225	\$ 204,270	\$ 262,102	\$	214,351
Project Exp	enses											
	2163	CSPH Trash Rack	\$	812,576	\$	1,407						
-	2168	CSPH Electrical Upgrade	\$	27,675	\$	14,148	\$	155,541	\$ 95,636	\$ 9,138	•	
=	2554	CSPH Fire Detection Upgrade							\$ 21,593	\$ 6,266		
=	2210	CSPH CAISO Mtr/Swtchgr	\$	7,693	\$	146,002	\$	48,239				
-		Subtotal Project Expenses	\$	847,943	\$	161,557	\$	203,780	\$ 117,229	\$ 15,404	\$	269,183
Allocated P	Project Exper	ises										
	N/A	N/A										
=		Subtotal Allocated Project Expenses	\$	-	\$	-	\$	-	\$ -	\$ -	\$	-
Total Expe	nses		\$	1,025,465	\$	343,196	\$	450,005	\$ 321,499	\$ 277,506	\$	483,534
Net Reven	ue		\$	(549,176)	\$	415,847	\$	(221,151)	\$ (91,364)	\$ 232,278	\$	(42,713)

			Scotts Flat	Po	werhouse					
			2018		2019	2020	2021	2022		Average
Gross Rever	nue		\$ 383,750	\$	407,545	\$ 467,468	\$ 392,942	\$ 448,306	\$	420,002
Operating E	xpenses									
	57900	Scotts Flat Powerhouse	\$ 222,510	\$	188,507	\$ 188,065	\$ 236,919	\$ 299,511		
_		Subtotal Operating Expenses	\$ 222,510	\$	188,507	\$ 188,065	\$ 236,919	\$ 299,511	\$	227,103
Project Expe	enses									
	2232	SFPH Instrument Upgrade	\$ 54	\$	672					
	2233	SFPH Exciter Replacement		\$	68,775				-	
	2406	SFPH Balance of Plant PLC						\$ 17,894	-	
	2552	SFPH Fire Detection Upgrade					\$ 48,608	\$ 25,106	-	
	2470	SF PG&E 12KV Line Outage				\$ 8,567			-	
_	2306	SFPH CAISO Meter		\$	34,523	\$ 2,027			-	
_		Subtotal Project Expenses	\$ 54	\$	103,971	\$ 10,594	\$ 48,608	\$ 42,999	\$	41,245
Allocated Pr	oject Expens	ses								
	N/A	N/A								
_		Subtotal Allocated Project Expenses	\$ -	\$	-	\$ -	\$ -	\$ -		
Total Expen	ses		\$ 222,565	\$	292,478	\$ 198,659	\$ 285,527	\$ 342,510	\$	268,348
Net Revenu	e		\$ 161,186	\$	115,068	\$ 268,809	\$ 107,415	\$ 105,796	\$	151,655

			C	ombie Nort	:h F	Powerhouse	е				
				2018		2019		2020	2021	2022	Average
Gross Revenu	e		\$	157,697	\$	193,211	\$	134,073	\$ 132,445	\$ 145,437	\$ 152,573
Operating Exp	enses										
	57600	Combie North Powerhouse	\$	137,541	\$	138,361	\$	108,240	\$ 117,920	\$ 145,456	
		Subtotal Operating Expenses	\$	137,541	\$	138,361	\$	108,240	\$ 117,920	\$ 145,456	\$ 129,504
Project Expen	ses										
	2553	CNPH Fire Detection Upgrade							\$ 9,368	\$ 6,545	
	2581	CNPH Capacitor Bank Upgrade							\$ 148	\$ 1,544	
		Subtotal Project Expenses	\$	-	\$	-	\$	-	\$ 9,516	\$ 8,089	\$ 3,521
Allocated Proj	ect Expens	ees									
	N/A	N/A									
		Subtotal Allocated Project Expenses	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -
Total Expense	S		\$	137,541	\$	138,361	\$	108,240	\$ 127,437	\$ 153,546	\$ 133,025
Net Revenue			\$	20,156	\$	54,849	\$	25,833	\$ 5,008	\$ (8,108)	\$ 19,548