

Asset Management Strategy Summary

Proposed Capital Investment Levels

	Current rate period		Next rate period		4-Year Total	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	10-Year Total
	FY 2012	FY 2013	FY 2014	FY 2015								

Capital Investment (excluding AFUDC and Corporate Overheads)

Transmission

Sustain Programs: *

AC Substations	18.2	40.8	39.7	25.9	124.6	17.2	18.0	23.2	23.2	23.2	23.2	252.6
DC Substations	11.3	11.3	7.2	4.5	34.3	-	-	-	-	-	-	34.3
Control Center	3.8	7.3	7.4	7.6	26.1	7.7	7.8	7.0	7.0	7.0	7.0	69.6
Power Systems Control and Telecom.	22.1	85.1	70.0	59.0	236.2	47.7	29.6	37.3	37.3	37.3	37.3	462.7
Rights of Way	24.1	26.1	23.4	23.6	97.2	17.7	17.7	11.3	11.3	11.3	11.3	177.8
System Protection and Control	7.4	26.2	29.0	28.1	90.7	34.8	28.3	21.7	21.7	21.7	21.7	240.6
Steel Lines	32.7	28.4	16.5	12.6	90.2	12.9	13.1	11.5	11.5	11.5	11.5	162.2
Wood Pole Lines	29.1	43.5	59.0	40.1	171.7	38.1	40.9	36.0	36.0	36.0	36.0	394.7
TEAP Tools	0.9	1.0	1.0	1.0	3.9	1.1	1.0	1.1	1.0	1.1	1.1	10.3
Subtotal	149.6	269.7	253.2	202.4	874.9	177.2	156.4	149.1	149.0	149.1	149.1	1,804.8
Expand Program:												-
Main Grid	216.1	158.3	112.6	116.8	603.8	189.6	160.0	163.0	43.0	74.0	194.0	1,427.4
Area and Customer Service	13.2	27.3	17.5	12.1	70.1	10.0	10.0	10.0	10.0	10.0	10.0	130.1
Upgrades and Additions	53.7	28.9	23.0	19.0	124.6	21.5	21.4	17.5	17.0	16.5	16.0	234.5
Subtotal	283.0	214.5	153.1	147.9	798.5	221.1	191.4	190.5	70.0	100.5	220.0	1,792.0
PDCI (Celilo) Upgrade Project	1.3	85.4	116.1	93.6	296.4	27.6	-	-	-	-	-	324.0
Transmission Indirects (Capitalized)	41.5	45.6	46.1	47.0	180.2	47.9	48.9	49.9	50.9	51.9	52.9	482.6
Customer Service Projects	45.2	45.0	35.0	25.0	150.2	25.0	25.0	32.0	32.0	32.0	32.0	328.2
Total	520.6	660.2	603.5	515.9	2,300.2	498.8	421.7	421.5	301.9	333.5	454.0	4,731.6

Facilities

Condition Assessment Projects	1.9	1.5	1.5	1.3	6.1	1.3	1.3	1.3	1.3	1.3	1.3	13.6
Miscellaneous New Building Projects	-	-	3.4	2.4	5.8	1.0	2.0	1.7	2.0	2.0	2.0	16.5
Hazardous Materials Abatement	0.5	0.5	0.5	0.5	2.0	0.5	0.5	-	-	-	-	3.0
Asset Decommissioning	-	-	0.6	0.5	1.1	0.6	0.5	0.4	0.2	0.3	0.2	3.3
Sustainable Investments	0.4	-	-	-	0.4	-	-	-	-	-	-	0.4
Maintenance HQ Projects	3.0	7.5	13.0	11.5	35.0	13.5	17.5	10.0	10.0	10.0	10.0	106.0
Communications Building Replacements	3.0	1.8	4.1	1.1	10.0	-	-	-	-	-	-	10.0
Portland Vancouver Office Space Strategy	-	-	-	-	-	11.0	6.6	4.8	4.4	4.4	0.1	31.2
Headquarters Leasehold Improvements	2.2	2.2	2.3	2.3	9.1	2.4	2.4	2.5	2.5	2.6	2.6	24.1
Business Continuity	3.0	12.0	-	-	15.0	-	-	-	-	-	-	15.0
Total	14.0	25.5	25.3	19.6	84.4	30.2	30.8	20.7	20.3	20.5	16.2	223.0

Security Infrastructure

Tier 2 Critical Site Protection	2.9	-	-	-	2.9	3.4	4.2	5.9	6.1	4.2	5.7	32.3
Tier 3 Critical Site Protection	-	-	-	-	-	-	-	-	-	-	-	-
NERC CIP Required Enhancements (V2-V5)	1.3	4.9	4.9	4.9	16.1	2.6	-	-	-	-	-	18.7
Non-Transmission and Tier 4 Sites Protection	-	-	-	-	-	-	1.0	-	-	-	-	1.0
Capital update of failing systems	-	-	-	-	-	-	-	-	-	1.0	-	1.0
Total	4.2	4.9	4.9	4.9	19.0	6.0	5.2	5.9	6.1	5.2	5.7	53.0

Fleet

Vehicle and Equipment Purchases	8.1	7.5	5.5	5.5	26.6	6.0	6.2	6.7	7.2	7.5	8.0	68.2
Capital Operational Costs - Outfitting, etc.	1.1	1.2	1.3	1.4	5.0	1.5	1.5	1.6	1.7	1.8	1.9	15.0
Total	9.2	8.7	6.8	6.9	31.6	7.5	7.7	8.3	8.9	9.3	9.9	83.2

* Transmission sustain programs are undergoing an analysis to determine if the levels between programs are appropriate

Asset Management Strategy Summary

Capital Costs - Continued

	Current rate period		Next rate period		4-Year Total	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	10-Year Total
	FY 2012	FY 2013	FY 2014	FY 2015								
Capital Investment (excluding AFUDC and Corporate Overheads)												
Environment												
Pollution Prevention & Abatement	5.1	5.4	5.1	5.1	20.7	5.0	5.0	5.0	5.1	5.1	5.1	51.0
Total	5.1	5.4	5.1	5.1	20.7	5.0	5.0	5.0	5.1	5.1	5.1	51.0
Federal Hydro												
Mainstem/Columbia	156.6	173.6	125.4	111.9	567.5	127.7	129.9	118.7	105.2	128.0	120.1	1,297.1
Headwater/Lower Snake	35.0	36.3	37.8	41.4	150.5	67.8	63.9	68.6	40.2	60.2	59.0	510.2
Area Support	33.6	46.8	29.9	36.2	146.5	47.0	43.7	43.7	34.1	55.0	54.2	424.2
Local Support	2.1	2.8	1.7	4.5	11.1	4.8	6.6	16.9	13.9	13.6	15.5	82.4
Pump Storage	4.3	3.1	6.2	9.3	22.9	1.6	0.5	-	-	-	-	25.0
Total	231.6	262.6	201.0	203.3	898.5	248.9	244.6	247.9	193.4	256.8	248.8	2,338.9
Energy Efficiency												
Energy Efficiency Incentive	73.3	56.3	52.6	64.4	246.6	66.3	68.3	70.4	72.5	74.7	76.9	675.8
BPA Managed Program Budget	15.7	18.9	22.6	27.6	84.8	28.4	29.3	30.2	31.1	32.0	33.0	268.7
Total	89.0	75.2	75.2	92.0	331.4	94.8	97.6	100.5	103.6	106.7	109.9	944.4
Fish and Wildlife (KEW)												
Land Acquisition (Proj 0005509)	26.9	28.2	25.3	17.6	97.9	15.4	12.9	12.0	18.8	18.9	18.3	194.3
Hatchery and Fish Facilities (Proj 0005510)	24.2	28.2	25.3	17.6	95.3	15.4	12.9	12.0	18.8	18.9	18.3	191.7
Passage (Proj 0005511)	8.7	10.8	9.7	6.7	35.8	5.9	4.9	4.6	7.2	7.2	7.0	72.6
Total	59.8	67.1	60.3	41.8	229.0	36.6	30.8	28.6	44.8	45.0	43.6	458.5
Information Technology												
Office Automation	5.0	0.9	0.4	-	6.3	-	-	-	-	-	-	6.3
Datacenter	8.0	10.0	14.2	14.0	46.2	11.6	14.0	12.0	11.0	19.0	14.0	127.8
Network	4.4	8.1	2.9	1.0	16.4	2.0	2.0	5.0	2.0	2.0	2.0	31.4
Applications	25.5	22.0	22.0	22.0	91.5	22.0	22.0	22.0	22.0	22.0	22.0	223.5
Total	42.9	41.0	39.5	37.0	160.4	35.6	38.0	39.0	35.0	43.0	38.0	389.0
Total Direct Capital	976.4	1,150.7	1,021.6	926.5	4,075.2	963.4	881.3	877.5	719.0	825.1	931.2	9,272.6
AFUDC	42.9	47.9	52.9	44.9	188.7	37.1	41.4	58.4	59.4	59.8	60.0	504.7
Corporate Overheads	44.3	44.8	45.2	46.1	180.4	47.0	48.0	48.9	49.9	50.9	51.9	477.0
Total Capital (before lapse/other adjustments)	1,063.6	1,243.4	1,119.8	1,017.5	4,444.2	1,047.5	970.7	984.8	828.4	935.7	1,043.1	10,254.4
Lapse	(126.9)	(152.9)	(144.7)	(129.6)	(554.1)	(128.3)	(116.9)	(117.2)	(99.6)	(104.4)	(122.4)	(1,242.9)
Timing Adjustments	(8.4)	(32.0)	42.7	39.8	42.2	(0.1)	(2.0)	(7.6)	51.7	(23.6)	(9.2)	51.4
Total Capital	928.3	1,058.5	1,017.8	927.7	3,932.3	919.1	851.8	860.0	780.5	807.7	911.5	9,062.9