

ORANGE AND ROCKLAND UTILITIES, INC.

INDEX OF SCHEDULES
June 15, 2018 Update
Electric and Common Plant Forecast

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Orange and Rockland Utilities, Inc.
Electric Rate Case
Electric Capital Expenditures by Project
O&R Forecast January 2018 to December 2021
June 15, 2018 Update
(\$000s)

Case 18-E-0067
June 15, 2018 Update
Exhibit AP-E4
Schedule 1

<u>Project Description</u>	<u>In Service Date</u>	<u>Jan-18 to Dec-18</u>	<u>Rate Year 1 Jan-19 to Dec-19</u>	<u>Rate Year 2 Jan-20 to Dec-20</u>	<u>Rate Year 3 Jan-21 to Dec-21</u>
<u>Electric Capital Expenditures:</u>					
Blankets	Various	\$ 35,575.0	\$ 36,694.1	\$ 36,645.7	\$ 38,030.9
Regular Projects Under \$1 Million	Various	9,768.3	7,339.6	8,372.9	10,159.4
Regular Projects Over \$1 Million					
MOAB Upgrade Program	Jun 2017	-	1,199.4	1,200.6	1,199.7
Deerpark Sub 69/34.5kV Bank, Circuit Exits & Transmission Tap	Jun 2018	6,061.7	-	-	-
Lines 55/56, Structure 33 and Lines 551/56, Structures 48 & 50	Dec 2018	1,171.8	-	-	-
Line 67 Relay Replacements at West Haverstraw & Ladtown	May 2019	1,456.0	449.1	-	-
Ramapo Banks 2300 Repl	May 2019	4,996.9	2,013.4	-	-
Community DG/Value of Distributed Energy Resources	Jun 2019	2,391.1	1,043.1	-	-
Hillburn Bank 317 Replacement	Jun 2019	-	1,500.0	-	-
West Shore Rail Line Structures 30, 110, 145	Dec 2019	348.7	1,160.8	-	-
Ramapo Banks 1300 Repl	Dec 2020	-	5,000.0	5,000.0	-
West Shore Rail Line Structures 190, 197, 211	Dec 2020	-	347.9	1,152.4	-
New Goshen Substation, Transm Tap and UG Circuit Exits	Jun 2021	-	3,907.1	14,360.1	10,282.8
Lovett 345kV Station, Remote Relaying and Transmission	Dec 2021	3,499.9	8,002.0	10,500.4	8,001.8
Burns Breaker Replacements	Dec 2021	-	-	965.7	1,046.0
Install OPGW on T/L 702	Dec 2021	-	24.3	754.0	750.6
West Nyack Capacitor Bank II	Dec 2021	-	-	699.0	1,002.2
ADMS Software System	Dec 2022	1,748.2	1,290.1	1,290.9	1,290.8
Electric Vehicle Charging Infrastructure Program	Dec 2022	-	337.0	337.0	337.0
Burns Terminal	May 2023	-	-	-	1,500.0
New Line 705 Underground	May 2023	500.8	1,000.7	2,998.1	10,000.0
West Nyack 2nd Autobank	May 2023	-	1,000.0	2,498.0	3,200.3
Little Tor Substation, Transm Tap and UG Circuit Exits	Jun 2023	6,751.7	-	4,930.3	4,845.9
L6 to 69kV-Bullville to WHghts	Dec 2024	100.2	237.7	698.2	500.1
AMI Program	Various	12,966.5	11,974.2	6,861.2	-
OMS Enhancements	Various	843.1	843.1	1,850.2	-
ORU REV Communications Expansion	Various	716.4	928.3	904.0	-
Port Jervis Subst 2-35 MVA Bank, Ckt Exits & 69kV Intrastation Tie	Various	2,317.2	13,247.8	10,288.3	-
		45,870.2	55,506.0	67,288.4	43,957.2
Total Electric Capital Expenditures		\$ 91,213.5	\$ 99,539.7	\$ 112,307.0	\$ 92,147.5

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Electric Plant Additions by Project
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Exhibit AP-E4
Schedule 2

<u>Project Description</u>	<u>In Service Date</u>	<u>Jan-18 to Dec-18</u>	<u>Rate Year 1 Jan-19 to Dec-19</u>	<u>Rate Year 2 Jan-20 to Dec-20</u>	<u>Rate Year 3 Jan-21 to Dec-21</u>
Electric Plant Additions:					
Blankets	Various	\$ 34,428.2	\$ 35,523.5	\$ 35,464.6	\$ 36,834.5
Regular Projects Under \$1 Million	Various	10,301.6	6,540.2	7,524.1	10,357.3
Regular Projects Over \$1 Million					
MOAB Upgrade Program	Jun 2017	-	1,199.4	1,200.6	1,199.7
Deerpark Sub 69/34.5kV Bank, Circuit Exits & Transmission Tap	Jun 2018	23,339.0	-	-	-
Lines 55/56, Structure 33 and Lines 551/56, Structures 48 & 50	Dec 2018	1,221.0	-	-	-
Line 67 Relay Replacements at West Haverstraw and Ladentown	May 2019	-	1,935.1	-	-
Ramapo Banks 2300 Repl	May 2019	-	9,364.8	-	-
Community DG/Value of Distributed Energy Resources	Jun 2019	-	3,434.2	-	-
Hillburn Bank 317 Replacement	Jun 2019	-	1,500.0	-	-
West Shore Rail Line Structures 30, 110, 145	Dec 2019	-	1,459.3	-	-
Ramapo Banks 1300 Repl	Dec 2020	-	-	10,000.0	-
West Shore Rail Line Structures 190, 197, 211	Dec 2020	-	-	4,392.9	-
New Goshen Substation, Transm Tap and UG Circuit Exits	Jun 2021	-	-	-	28,550.0
Burns Breaker Replacements	Dec 2021	-	-	-	1,986.6
Install OPGW on T/L 702	Dec 2021	-	-	-	2,744.9
Lovett 345kV Station, Remote Relaying and Transmission	Dec 2021	-	-	4,000.3	28,716.8
West Nyack Capacitor Bank II	Dec 2021	-	-	-	1,701.2
AMI Program	Various	12,966.5	11,974.2	6,861.2	-
OMS Enhancements	Various	843.1	843.0	1,850.2	-
ORU REV Communications Expansion	Various	716.4	928.3	904.0	-
Port Jervis Subst 2-35 MVA Bank, Ckt Exits & 69kV Intrastation Tie	Various	-	1,645.0	27,384.7	-
		39,086.0	34,283.3	56,593.9	64,899.2
Total Electric Plant Additions		\$ 83,815.8	\$ 76,347.0	\$ 99,582.6	\$ 112,091.0

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 Common Capital Expenditures by Project
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 Exhibit AP-E4
 Schedule 3

<u>Project Description</u>	<u>In Service Date</u>	<u>Jan-18 to Dec-18</u>	<u>Rate Year 1 Jan-19 to Dec-19</u>	<u>Rate Year 2 Jan-20 to Dec-20</u>	<u>Rate Year 3 Jan-21 to Dec-21</u>
<u>Common Capital Expenditures:</u>					
Blankets	Various	\$ 11,429.7	\$ 10,270.9	\$ 9,099.3	\$ 8,518.1
Regular Projects Under \$500k	Various	2,011.5	967.4	489.5	1,016.6
Regular Projects Over \$500k					
Green Button Connect (GBC) Software	Sep 2018	108.3	-	-	-
Enterprise Security Platform	Dec 2018	500.0	-	-	-
Willow Brook Dam Enhancements	Sep 2019	50.0	1,725.0	-	-
Off Cycle Enrollment Software RAIS and CIMS	Dec 2019	-	994.0	-	-
Priority Customer Repository - NUCON Enhancement	Dec 2019	375.0	400.0	-	-
Contractor Oversight System Mobile Enhancement	Dec 2020	-	500.0	421.2	-
Innovative Time of Use Pricing Software	Dec 2020	-	249.9	500.0	-
Port Jervis Exterior and Window Replacement	Aug 2021	-	-	-	500.0
Automated Outage Communication	Dec 2021	-	300.0	300.0	300.0
Building Roof Program	Dec 2022	-	-	250.0	250.0
CCA and Data Aggregation	Dec 2022	250.0	250.0	250.0	250.0
Corporate Website Upgrade	Dec 2022	629.9	565.5	419.2	430.0
OMS Enhancements	Dec 2022	-	-	-	1,158.9
REV Settlement and Regulatory Requirements	Dec 2022	500.0	500.0	1,000.0	1,000.0
Customer Information System (CIS) Replacement	Jul 2023	734.0	1,273.2	9,454.2	8,084.9
O&R CUS Integration	Dec 2023	-	200.0	200.0	200.0
AMI Program	Various	9,677.7	5,251.4	3,430.5	-
Mainframe Upgrade	Various	840.1	1,889.2	1,405.9	603.5
		13,665.0	14,098.2	17,631.0	12,777.3
Total Common Capital Expenditures		\$ 27,106.2	\$ 25,336.5	\$ 27,219.8	\$ 22,312.0

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Schedule 4

<u>Project Description</u>	<u>In Service Date</u>	<u>Jan-18 to Dec-18</u>	<u>Rate Year 1 Jan-19 to Dec-19</u>	<u>Rate Year 2 Jan-20 to Dec-20</u>	<u>Rate Year 3 Jan-21 to Dec-21</u>
<u>Common Plant Additions:</u>					
Blankets	Various	\$ 11,559.7	\$ 10,414.0	\$ 9,229.3	\$ 8,648.2
Regular Projects Under \$500k	Various	1,484.0	1,834.8	420.9	1,200.6
Regular Projects Over \$500k					
SVOC Power Systems Project	Jul 2018	1,190.1	-	-	-
Green Button Connect (GBC) Software	Sep 2018	663.0	-	-	-
Enterprise Security Platform	Dec 2018	1,546.5	-	-	-
Willow Brook Dam Enhancements	Sep 2019	-	1,775.0	-	-
Innovative Time of Use Pricing Software	Dec 2020	-	-	749.9	-
Off Cycle Enrollment Software RAIS and CIMS	Dec 2019	-	1,634.1	-	-
Priority Customer Repository - NUCON Enhancement	Dec 2019	-	775.0	-	-
Contractor Oversight System Mobile Enhancement	Dec 2020	-	-	921.2	-
Automated Outage Communication	Dec 2021	-	-	-	900.0
AMI Program	Various	9,677.7	5,251.4	3,430.5	-
Mainframe Upgrade	Various	840.1	1,889.2	1,405.9	603.5
		13,917.4	11,324.7	6,507.5	1,503.5
Total Common Plant Additions		\$ 26,961.1	\$ 23,573.5	\$ 16,157.7	\$ 11,352.3