

- 1 **Q. (Reference Application Volume 1, pages 2, 3 and 4 of 4) Please expand the table**
2 **titled “2021 Capital Projects (by Asset Class)” to include a comparison to**
3 **corresponding figures over the past 5 years for capital amounts applied for, capital**
4 **amounts approved and actual capital amounts spent. The reference for the**
5 **description in the table can be ignored.**
6
- 7 A. See Attachment A for expanded *Capital Projects (By Asset Class)* tables from the
8 Schedule A of the 2015, 2016, 2017, 2018 and 2019 capital budget applications. The
9 tables have been expanded to include the actual capital expenditure¹ for each project.²
10 All capital projects for the 5-year period were approved as filed.

¹ The actual capital expenditure for each project can be found in the annual Capital Expenditure Report filed as required by the associated Capital Budget Board Order. Variances of more than 10% of the approved expenditure and \$100,000 or greater are explained in the notes section of the annual reports.

² The Capital Expenditure Report includes data associated with Supplementary Budget Applications. The Schedule A's do not include this data. As a result, the data provided in response to Request for Information CA-NP-001 will not match the data provided in response to Request for Information CA-NP-057.

**Capital Projects by Asset Class – Budget and Actual Expenditures
2015-2019**

2015 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actual (000s)¹</u>
1. Generation – Hydro		
Facility Rehabilitation	\$ 1,586	\$ 1,549
Public Safety Around Dams	429	433
Pierre’s Brook Plant Penstock and Surge Tank ²	750	639
Tors Cove Plant Refurbishment	1,777	2,122
Seal Cove Plant Refurbishment	156	165
<i>Total Generation – Hydro</i>	\$ 4,698	\$ 4,908
2. Generation – Thermal		
Facility Rehabilitation Thermal	\$ 216	\$ 228
<i>Total Generation – Thermal</i>	\$ 216	\$ 228
3. Substations		
Substations Refurbishment and Modernization	\$ 9,961	\$ 11,010
Replacements Due to In-Service Failures	3,110	3,116
Additions Due to Load Growth	8,935	8,029
Substation Feeder Termination	472	360
<i>Total Substations</i>	\$ 22,478	\$ 22,515
4. Transmission		
Transmission Line Rebuild ³	\$ 5,731	\$ 6,490
<i>Total Transmission</i>	\$ 5,731	\$ 6,490

¹ Actual expenditures as provided in the 2015 Capital Expenditure Report filed on February 26, 2016.

² The *Pierre’s Brook Plant Penstock and Surge Tank* project is a multi-year project.

³ The *Transmission Line Rebuild* project is a multi-year project.

2015 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actual (000s)</u>
5. Distribution		
Extensions	\$ 12,314	\$ 15,423
Meters	3,146	3,108
Services	4,101	3,727
Street Lighting	2,469	2,529
Transformers	6,778	7,462
Reconstruction	3,964	5,059
Rebuild Distribution Lines	3,302	4,137
Relocate/Replace Distribution Lines for Third Parties	2,504	2,118
Trunk Feeders	991	755
Feeder Additions for Growth	1,684	2,161
Distribution Reliability Initiative	863	1,030
Distribution Feeder Automation	160	161
Allowance for Funds Used During Construction	197	214
<i>Total Distribution</i>	\$ 42,473	\$ 47,884
6. General Property		
Tools and Equipment	\$ 467	\$ 328
Additions to Real Property	385	413
Standby and Emergency Power – Carbonear Office	304	255
Renovations to Company Buildings ⁴	2,068	1,049
<i>Total General Property</i>	\$ 3,224	\$ 2,045
7. Transportation		
Purchase Vehicles and Aerial Devices	\$ 2,917	\$ 3,080
<i>Total Transportation</i>	\$ 2,917	\$ 3,080

⁴ The *Renovations to Company Buildings* project is a multi-year project.

2015 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actual (000s)</u>
8. Telecommunications		
Replace/Upgrade Communications Equipment	\$ 123	\$ 78
<i>Total Telecommunications</i>	\$ 123	\$ 78
9. Information Systems		
Application Enhancements	\$ 1,325	\$ 1,301
System Upgrades ⁵	1,125	1,163
Personal Computer Infrastructure	487	488
Shared Server Infrastructure	970	997
Network Infrastructure	328	307
SCADA System Replacement ⁶	2,833	1,620
Geographic Information System Improvements	433	408
<i>Total Information Systems</i>	\$ 7,501	\$ 6,284
10. Unforeseen Allowance		
Allowance for Unforeseen Items	\$ 750	\$ 0
<i>Total Unforeseen Allowance</i>	\$ 750	\$ 0
11. General Expenses Capitalized		
General Expenses Capitalized	\$ 4,100	\$ 4,891
<i>Total General Expenses Capitalized</i>	\$ 4,100	\$ 4,891

⁵ The Microsoft Enterprise Agreement portion of the *System Upgrades* project is a multi-year project.

⁶ The *SCADA System Replacement* project is a multi-year project.

2016 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actual (000s)⁷</u>
1. Generation – Hydro		
Facility Rehabilitation	\$ 1,462	\$ 1,871
Public Safety Around Dams	883	972
Pierre’s Brook Plant Refurbishment ⁸	15,012	14,393
<i>Total Generation – Hydro</i>	\$17,357	\$ 17,236
2. Generation – Thermal		
Facility Rehabilitation Thermal	\$ 238	\$ 424
Greenhill Gas Turbine Refurbishment	1,500	1,091
<i>Total Generation – Thermal</i>	\$ 1,738	\$ 1,515
3. Substations		
Substations Refurbishment and Modernization	\$ 7,871	\$ 6,894
Replacements Due to In-Service Failures	3,771	2,561
Additions Due to Load Growth	5,868	4,612
Substation Feeder Termination	430	335
<i>Total Substations</i>	\$17,940	\$14,402
4. Transmission		
Transmission Line Rebuild ⁹	\$ 6,067	\$ 4,186
<i>Total Transmission</i>	\$ 6,067	\$ 4,186

⁷ Actual expenditures as provided in the 2016 Capital Expenditure Report filed on February 28, 2017.

⁸ The *Pierre’s Brook Plant Refurbishment* project is a multi-year project.

⁹ The *Transmission Rebuild* project is a multi-year project.

2016 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actual (000s)</u>
5. Distribution		
Extensions	\$ 10,439	\$ 13,008
Meters	4,582	4,496
Services	3,784	3,739
Street Lighting	2,245	1,727
Transformers	5,759	4,956
Reconstruction	4,599	4,876
Rebuild Distribution Lines	3,694	2,846
Relocate/Replace Distribution Lines for Third Parties	2,454	2,454
Trunk Feeders	1,607	1,148
Feeder Additions for Growth	1,708	1,439
Distribution Reliability Initiative	1,463	1,452
Distribution Feeder Automation	565	364
St. John's Main Underground Refurbishment ¹⁰	1,950	326
Allowance for Funds Used During Construction	206	197
<i>Total Distribution</i>	\$ 45,055	\$ 43,028
6. General Property		
Tools and Equipment	\$ 682	\$ 556
Additions to Real Property	434	391
Company Building Renovations – Duffy Place ¹¹	724	2,562 ¹²
<i>Total General Property</i>	\$ 1,840	\$ 3,509
7. Transportation		
Purchase Vehicles and Aerial Devices	\$ 3,258	\$ 3,377
<i>Total Transportation</i>	\$ 3,258	\$ 3,377

¹⁰ The *St. John's Main Underground Refurbishment* project is a multi-year project.

¹¹ The *Company Buildings Renovation – Duffy Place* project is a multi-year project.

¹² Includes \$1,018,000 carried over from 2015.

2016 CAPITAL PROJECTS (BY ASSET CLASS)

Capital Projects

Budget (000s) Actual (000s)

8. Telecommunications

Replace/Upgrade Communications Equipment	\$ 105	\$ 109
Fibre Optic Network	409	\$ 229
<i>Total Telecommunications</i>	\$ 514	\$ 338

9. Information Systems

Application Enhancements	\$ 1,143	\$ 1,143
System Upgrades ¹³	1,718	1,634
Personal Computer Infrastructure	465	470
Shared Server Infrastructure	916	847
Network Infrastructure	294	312
SCADA System Replacement ¹⁴	2,842	3,991 ¹⁵
Geographic Information System Improvements	482	483
Outage Management System Replacement ¹⁶	149	63
<i>Total Information Systems</i>	\$ 8,009	\$ 8,943

10. Unforeseen Allowance

Allowance for Unforeseen Items	\$ 750	\$ 0
<i>Total Unforeseen Allowance</i>	\$ 750	\$ 0

11. General Expenses Capitalized

General Expenses Capitalized	\$ 4,500	\$ 3,963
<i>Total General Expenses Capitalized</i>	\$ 4,500	\$ 3,963

¹³ The Microsoft Enterprise Agreement portion of the *System Upgrades* project is a multi-year project.

¹⁴ The *SCADA System Replacement* project is a multi-year project.

¹⁵ Includes \$1,250 in expenditures carried over from 2015 and \$276,000 carried forward to 2017.

¹⁶ The *Outage Management System Replacement* project is a multi-year project.

2017 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actuals (000s)¹⁷</u>
1. Generation – Hydro		
Facility Rehabilitation	\$ 1,607	\$ 1,442
Public Safety Around Dams	662	680
Tors Cove Plant Refurbishment	1,476	1,182
<i>Total Generation – Hydro</i>	\$ 3,745	\$ 3,304
2. Generation – Thermal		
Facility Rehabilitation Thermal	\$ 234	\$ 242
<i>Total Generation – Thermal</i>	\$ 234	\$ 242
3. Substations		
Substations Refurbishment and Modernization	\$ 8,875	\$ 8,662
Replacements Due to In-Service Failures	3,851	2,230
Additions Due to Load Growth	2,574	2,115
PCB Bushing Phase-out	1,009	849
Substation Feeder Termination	284	147
<i>Total Substations</i>	\$16,593	\$14,003
4. Transmission		
Transmission Line Rebuild ¹⁸	\$ 6,711	\$ 6,753
<i>Total Transmission</i>	\$ 6,711	\$ 6,753

¹⁷ Actual expenditures as provided in the 2017 Capital Expenditure Report filed on February 28, 2018.

¹⁸ The *Transmission Line Rebuild* project is a multi-year project.

2017 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actual (000s)</u>
5. Distribution		
Extensions	\$ 11,834	\$ 11,880
Meters	4,391	3,925
Services	3,564	3,355
Street Lighting	2,049	2,025
Transformers	6,103	5,835
Reconstruction	4,908	4,576
Rebuild Distribution Lines	4,023	3,269
Relocate/Replace Distribution Lines for Third Parties	2,266	2,445
Trunk Feeders	1,834	1,295
Feeder Additions for Growth	1,430	1,860
Distribution Reliability Initiative ¹⁹	1,415	815
Distribution Feeder Automation	568	221
St. John's Main Underground Refurbishment ²⁰	2,440	4,185 ²¹
Allowance for Funds Used During Construction	209	179
<i>Total Distribution</i>	\$ 47,034	\$ 45,865
6. General Property		
Tools and Equipment	\$ 475	\$ 499
Additions to Real Property	471	467
Company Buildings Renovations – Stephenville	351	300
Standby and Emergency Power – Stephenville	205	190
<i>Total General Property</i>	\$ 1,502	\$ 1,456
7. Transportation		
Purchase Vehicles and Aerial Devices	\$ 3,456	\$ 3,824
<i>Total Transportation</i>	\$ 3,456	\$ 3,824

¹⁹ The *Distribution Reliability Initiative* project is a multi-year project.

²⁰ The *St. John's Main Underground Refurbishment* project is a multi-year project.

²¹ Includes \$1,546,000 in expenditures carried forward from 2017 to 2018.

2017 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actual (000s)</u>
8. Telecommunications		
Replace/Upgrade Communications Equipment	\$ 98	\$ 112
<i>Total Telecommunications</i>	\$ 98	\$ 112
9. Information Systems		
Application Enhancements	\$ 1,003	\$ 820
System Upgrades ²²	1,676	1,676
Personal Computer Infrastructure	485	493
Shared Server Infrastructure	661	707
Network Infrastructure	388	407
Outage Management System Replacement ²³	875	439
Geographic Information System Improvements	200	211
<i>Total Information Systems</i>	\$ 5,288	\$ 4,753
10. Unforeseen Allowance		
Allowance for Unforeseen Items	\$ 750	\$ 0
<i>Total Unforeseen Allowance</i>	\$ 750	\$ 0
11. General Expenses Capitalized		
General Expenses Capitalized	\$ 4,000	\$ 3,967
<i>Total General Expenses Capitalized</i>	\$ 4,000	\$ 3,967

²² The Microsoft Enterprise Agreement portion of the *System Upgrades* project is a multi-year project.

²³ The *Outage Management System Replacement* project is a multi-year project.

2018 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actual (000s)²⁴</u>
1. Generation – Hydro		
Facility Rehabilitation	\$ 2,119	\$ 2,601
<i>Total Generation – Hydro</i>	\$ 2,119	\$ 2,601
2. Generation – Thermal		
Facility Rehabilitation Thermal	\$ 301	\$ 408
Purchase Mobile Generation ²⁵	\$ 6,000	6,048
<i>Total Generation – Thermal</i>	\$ 6,301	\$ 6,456
3. Substations		
Substations Refurbishment and Modernization	\$ 8,001	\$ 7,917
Replacements Due to In-Service Failures	3,814	3,861
PCB Bushing Phase-out	973	884
<i>Total Substations</i>	\$ 12,788	\$ 12,662
4. Transmission		
Transmission Line Rebuild ²⁶	\$ 7,168	\$ 7,806
<i>Total Transmission</i>	\$ 7,168	\$ 7,806

²⁴ Actual expenditures as provided in the 2018 Capital Expenditure Report (Revised) filed on March 11, 2019.

²⁵ The *Purchase Mobile Generation* project is a multi-year project.

²⁶ The *Transmission Line Rebuild* project is a multi-year project.

2018 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actual (000s)</u>
5. Distribution		
Extensions	\$ 11,738	\$ 11,274
Meters	546	884
Services	3,200	3,811
Street Lighting	1,814	3,062
Transformers	6,084	5,782
Reconstruction	5,366	5,903
Rebuild Distribution Lines	3,844	4,429
Relocate/Replace Distribution Lines for Third Parties	2,317	3,177
Trunk Feeders	798	737
Feeder Additions for Load Growth ²⁷	539	458
Distribution Reliability Initiative ²⁸	1,789	2,713
Distribution Feeder Automation	612	626
Allowance for Funds Used During Construction	210	177
<i>Total Distribution</i>	\$ 38,857	\$ 43,033
6. General Property		
Tools and Equipment	\$ 479	\$ 485
Additions to Real Property	671	759
Company Buildings Renovations – Carbonear Parking Lot	298	381
Security Fencing Refurbishment	315	197
<i>Total General Property</i>	\$ 1,763	\$ 1,822
7. Transportation		
Purchase Vehicles and Aerial Devices	\$ 3,362	\$ 3,594
<i>Total Transportation</i>	\$ 3,362	\$ 3,594

²⁷ The *Feeder Additions for Load Growth* project is a multi-year project.

²⁸ The *Distribution Reliability Initiative* project is a multi-year project.

2018 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actual (000s)</u>
8. Telecommunications		
Replace/Upgrade Communications Equipment	\$ 99	\$ 98
Fibre Optic Network	99	227
<i>Total Telecommunications</i>	\$ 198	\$ 325
9. Information Systems		
Application Enhancements	\$ 858	\$ 891
System Upgrades ²⁹	1,343	1,133
Personal Computer Infrastructure	472	480
Shared Server Infrastructure	648	635
Network Infrastructure	467	439
Outage Management System ³⁰	2,360	1,758
Human Resource Management System Replacement ³¹	422	481
<i>Total Information Systems</i>	\$ 6,570	\$ 5,817
10. Unforeseen Allowance		
Allowance for Unforeseen Items	\$ 750	\$ 260
<i>Total Unforeseen Allowance</i>	\$ 750	\$ 260
11. General Expenses Capitalized		
General Expenses Capitalized	\$ 4,000	\$ 3,854
<i>Total General Expenses Capitalized</i>	\$ 4,000	\$ 3,854

²⁹ The Microsoft Enterprise Agreement portion of the *System Upgrades* project is a multi-year project.

³⁰ The *Outage Management System* project is a multi-year project.

³¹ The *Human Resource Management System Replacement* project is a multi-year project.

2019 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actual (000s)³²</u>
1. Generation – Hydro		
Facility Rehabilitation	\$ 1,502	\$ 1,584
Rattling Brook Plant Refurbishment	1,161	1,026
<i>Total Generation – Hydro</i>	\$ 2,663	\$ 2,610
2. Generation – Thermal		
Facility Rehabilitation Thermal	\$ 327	\$ 165
Purchase Mobile Generation ^{33, 34}	7,915	7,281
<i>Total Generation – Thermal</i>	\$ 8,242	\$ 7,446
3. Substations		
Substations Refurbishment and Modernization	\$ 8,580	\$ 7,384
Replacements Due to In-Service Failures	3,547	4,532
PCB Bushing Phase-out	912	934
<i>Total Substations</i>	\$13,039	\$12,850
4. Transmission		
Transmission Line Rebuild ³⁵	\$10,781	\$ 10,912
<i>Total Transmission</i>	\$ 10,781	\$ 10,912

³² Actual expenditures as provided in the 2019 Capital Expenditure Report filed on February 28, 2020.

³³ The *Purchase Mobile Generation* project is a multi-year project.

³⁴ Actual expenditures include forecasted \$150,000 carried into 2020.

³⁵ The *Transmission Line Rebuild* project is a multi-year project.

2019 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actual (000s)</u>
5. Distribution		
Extensions	\$ 10,725	\$13,379
Meters	622	481
Services	3,037	3,090
Street Lighting	2,301	3,455
Transformers	6,716	5,696
Reconstruction	5,376	5,579
Rebuild Distribution Lines	3,977	4,371
Relocate/Replace Distribution Lines for Third Parties	2,442	5,192
Trunk Feeders	400	488
Feeder Additions for Load Growth ³⁶	1,715	2,465
Distribution Reliability Initiative	1,800	1,636
Distribution Feeder Automation	675	754
Allowance for Funds Used During Construction	215	215
<i>Total Distribution</i>	\$40,001	\$46,801
6. General Property		
Tools and Equipment	\$ 467	\$ 451
Additions to Real Property	489	503
Company Building Renovations ³⁷	1,374	1,712
Physical Security Upgrades	300	183
<i>Total General Property</i>	\$ 2,630	\$ 2,849
7. Transportation		
Purchase Vehicles and Aerial Devices ³⁸	\$ 3,990	\$ 4,223
<i>Total Transportation</i>	\$ 3,990	\$ 4,223

³⁶ The *Feeders Additions for Load Growth* project is a multi-year project.

³⁷ Actual expenditures include a forecasted amount of \$530,000 carried forward into 2020.

³⁸ Actual expenditures include a forecasted amount of \$1,575,000 carried forward into 2020.

2019 CAPITAL PROJECTS (BY ASSET CLASS)

<u>Capital Projects</u>	<u>Budget (000s)</u>	<u>Actual (000s)</u>
8. Telecommunications		
Replace/Upgrade Communications Equipment	\$ 106	\$ 112
Fibre Optic Network	127	200
<i>Total Telecommunications</i>	\$ 233	\$ 312
9. Information Systems		
Application Enhancements	\$ 1,252	\$ 879
System Upgrades ^{39, 40}	1,258	1,134
Personal Computer Infrastructure	472	500
Shared Server Infrastructure	848	879
Network Infrastructure	322	338
Cybersecurity Upgrades ⁴¹	398	417
Outage Management System ⁴²	1,210	1,978
Human Resource Management System Replacement ^{43 44}	1,215	1,317
<i>Total Information Systems</i>	\$ 6,975	\$ 7,442
10. Unforeseen Allowance		
Allowance for Unforeseen Items	\$ 750	\$ 0
<i>Total Unforeseen Allowance</i>	\$ 750	\$ 0
11. General Expenses Capitalized		
General Expenses Capitalized	\$ 4,000	\$ 6,203
<i>Total General Expenses Capitalized</i>	\$ 4,000	\$ 6,203

³⁹ The Microsoft Enterprise Agreement portion of the *System Upgrades* project is a multi-year project.

⁴⁰ Actual expenditures include a forecasted amount of \$95,000 carried forward into 2020.

⁴¹ Actual expenditures include a forecasted amount of \$146,000 carried forward into 2020.

⁴² The *Outage Management System* project is a multi-year project.

⁴³ The *Human Resource Management System Replacement* project is a multi-year project.

⁴⁴ Actual expenditures include a forecasted amount of \$73,000 carried forward into 2020.