

Table 1: Power Forward Carolinas and GIP Comparison of Spending

CURRENT

Grid Improvement Plan Carolinas (NC)

dollars in (000's)	NC 2020-2022
Compliance: Cost Effectiveness Justified	\$134
Physical Security	\$111
Cyber Security	\$23
Cost Benefit & Cost Effectiveness Justified	\$1,649
SOG	\$722
Incremental Distribution H&R	\$145
IVVC	\$217
Incremental Transmission H&R	\$134
TUG	\$115
Energy Storage	\$129
Transmission Bank Replacement	\$116
OIL Breaker Replacements	\$200
Rapid Technology Advancement: Cost-Effectiveness	\$536
T&D Communications	\$212
Distribution System Automation	\$194
Transmission System Intelligence	\$86
T&D Enterprise Systems	\$28
ISOP	\$7
DER Dispatch Tool	\$7
Electric Vehicle Charging	\$63
Power Electronics for volt/var control	\$2

Total \$2.3 billion

POWER FORWARD

Power/Forward (NC)

dollars in (000's)	NC 2018-2027	
Compliance: Cost Effectiveness Justified		
Physical Security	\$0	new program
Cyber Security	\$0	new program
Cost Benefit & Cost Effectiveness Justified	\$11,804	
SOG	\$1,267	
Incremental Distribution H&R	\$3,379	↓ 96%
IVVC DEC	\$0	new program
Transmission	\$2,195	
TUG	\$4,962	↓ 98%
Energy Storage	\$0	new program
Transmission Bank Replacement		
OIL Breaker Replacements		
Rapid Technology Advancement: Cost-Effectiveness	\$926	
T&D Communications	\$447	
Distribution System Automation	\$140	
Transmission System Intelligence		
T&D Enterprise Systems	\$339	
ISOP	\$0	new program
DER Dispatch Tool	\$0	new program
Electric Vehicle Charging	\$0	new program
Power Electronics for volt/var control	\$0	new program

Total NC \$13 billion

D. Discussion of the current state of North Carolina's electrical grid

Q. PLEASE PROVIDE YOUR UNDERSTANDING OF THE CURRENT STATE OF DEC'S ELECTRICAL GRID IN NORTH CAROLINA.

A. As stated in the Quality of Service section of our testimony, DEC's current service is adequate at this time. We analyzed the state of the Company's electrical grid by comparing the Company's spending on its distribution and transmission grid over time, with the overall grid reliability trends to determine a baseline for assessing the GIP proposal going forward.