

NIST BLCC 5.3-20: Summary LCC

Consistent with Federal Life Cycle Cost Methodology and Procedures, 10 CFR, Part 436, Subpart A

General Information

File Name:	C:\Users\jkneifel\BLCC5.3-2020\projects\FEMPEnergy.xml
Date of Study:	Tue Sep 01 08:50:59 EDT 2020
Analysis Type:	FEMP Analysis, Energy Project
Project Name:	Heating/Cooling System
Project Location:	District of Columbia
Analyst:	Courtney Mayer
Comment:	Replacement of Baseboard/ AC System with Heat Pump in Park Service House
Base Date:	April 1, 2020
Service Date:	April 1, 2020
Study Period:	15 years 0 months (April 1, 2020 through March 31, 2035)
Discount Rate:	3%
Discounting Convention:	End-of-Year
Discount and Escalation Rates are REAL (exclusive of general inflation)	

Alternative: Existing System

LCC Summary

	Present Value	Annual Value
Initial Cost	\$1,500	\$126
Energy Consumption Costs	\$14,135	\$1,184
Energy Demand Costs	\$0	\$0
Energy Utility Rebates	\$0	\$0
Water Usage Costs	\$0	\$0
Water Disposal Costs	\$0	\$0
Annually Recurring OM&R Costs	\$597	\$50
Non-Annually Recurring OM&R Costs	\$149	\$12
Replacement Costs	\$446	\$37
Less Remaining Value	-\$289	-\$24
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Total Life-Cycle Cost	\$16,539	\$1,386

Alternative: New System

LCC Summary

	Present Value	Annual Value
Initial Cost	\$3,000	\$251
Energy Consumption Costs	\$9,659	\$809

Energy Demand Costs	\$0	\$0
Energy Utility Rebates	\$0	\$0
Water Usage Costs	\$0	\$0
Water Disposal Costs	\$0	\$0
Annually Recurring OM&R Costs	\$1,194	\$100
Non-Annually Recurring OM&R Costs	\$474	\$40
Replacement Costs	\$0	\$0
Less Remaining Value	-\$481	-\$40
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Total Life-Cycle Cost	\$13,845	\$1,160