

3 Year Total Cost of Ownership (TCO) Assessment

IBM i S914 v2 TCO

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Executive Summary

This report provides a 3 year total cost of ownership (TCO) assessment for the IBM i S914 v2 environment. The analysis compares the existing environment to 1 target environment using industry-standard and user-customized inputs and assumptions. This assessment measures long-term cost efficiency, licensing impact, and infrastructure support requirements.

The results identify the **PowerVS environment** as the most cost-effective option, delivering the greatest financial advantage among all evaluated options. This report is intended to support IT and procurement stakeholders in making informed infrastructure decisions by providing a clear financial comparison of available pathways.

PowerVS Best

\$13,245

3 year TCO Reduction

18%

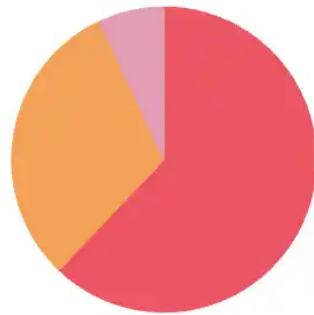
Expense Reduction

22%

ROI

Savings Breakdown

Savings by Category



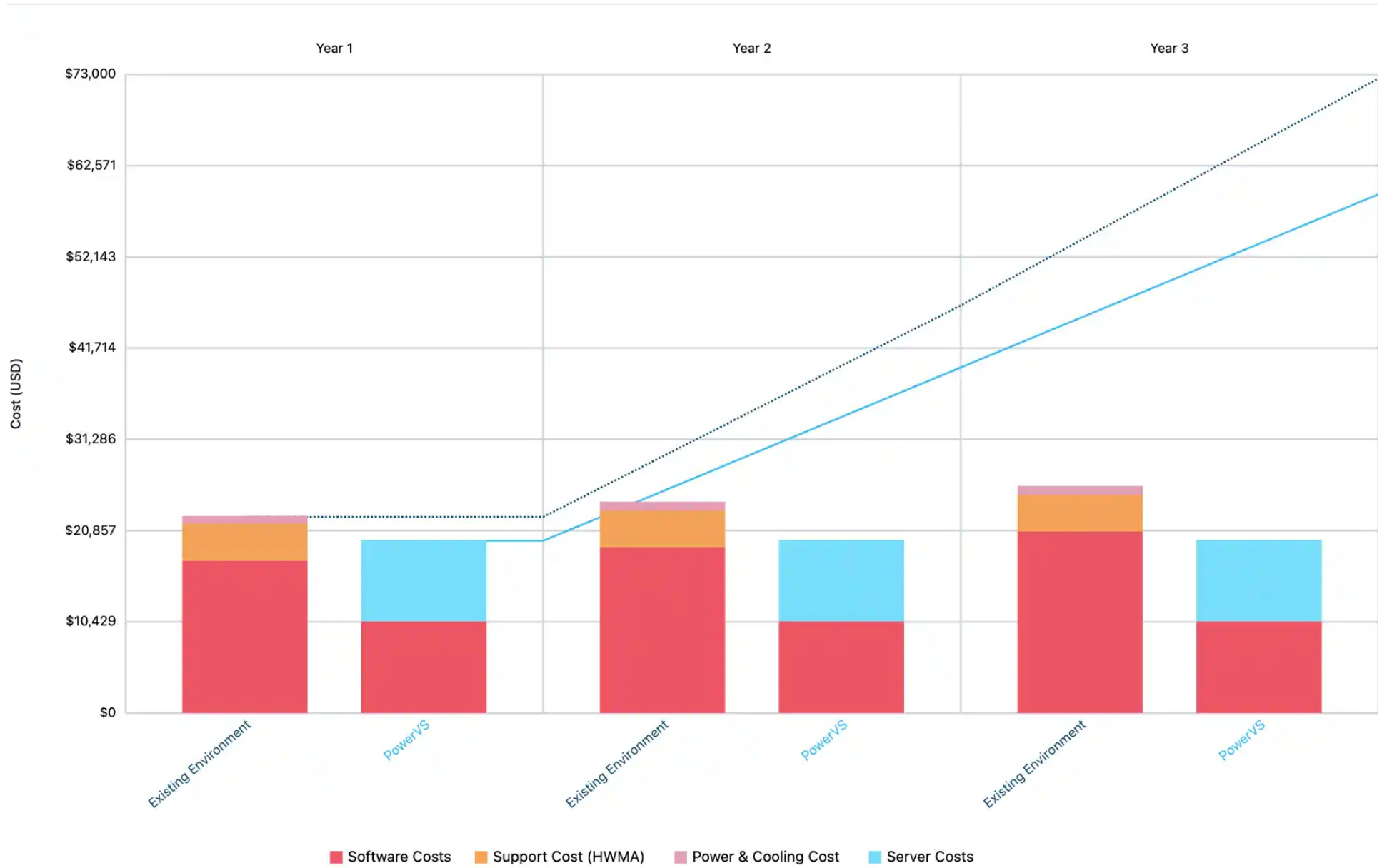
■ Power & Cooling Cost ■ Support Cost (HWMA) ■ Software Costs

Software Savings



■ IBM PowerVM Enterprise - Scale Out ■ IBM i P05 / Non-Expiring

Costs Timeline



Analysis Details

Description	Existing Environment	PowerVS Best
Infrastructure Details		
Number of Servers	2	1
Server Specifications	IBM Power S914 / 2.3 GHz / 4 cores [1x4c]	IBM PowerVS S1122S Scale Out (Shared uncapped)
Total CPUs	2	NA
Total Cores	8	1
CPM @ Util %	4 @ 25%	4.7 @ 100%
Memory @ Util %	64 GiB @ 50%	64 GiB @ 100%
Carbon Emissions (CO ₂ e)	7,476 KG	NA
Overall Costs		
Server Costs	NA	\$28,204
Support Cost (HWMA)	\$12,810	NA
Power & Cooling Cost	\$2,891	NA
Software Costs		
IBM i P05	NA	\$31,212
IBM i P05 / Non-Expiring	\$53,887	NA
IBM PowerVM Enterprise - Scale Out	\$3,072	NA
TCO Financials		
Cost Reduction	NA	\$13,245
Expense Reduction	NA	18%
ROI %	NA	22%
Payback Period	NA	Immediate
3 Year Total Cost of Ownership	\$72,660	\$59,416

PowerVS - Environment Details

	Existing Environment	PowerVS	Net Change
Environment Overview			
Infrastructure Summary			
Number of Servers	2	1	-1
Total CPUs	2	NA	NA
Total Cores	8	1	-7
Total CPM	15.8	4.7	-11.1
CPM @ Util %	4 @ 25%	4.7 @ 100%	+0.8
Total Memory	128 GiB	64 GiB	-64 GiB
Memory @ Util %	64 GiB @ 50%	64 GiB @ 100%	None
Environmental Factors			
Kilowatt-hour Consumption (kWh)	19,276	NA	NA
Cost per kWh	\$0.15	NA	NA
Power Usage Effectiveness (PUE)	1.5	NA	NA
Carbon Emissions (CO ₂ e)	7,476 KG	NA	NA
kWh to CO ₂ e	0.388	NA	NA
PowerVS (S1122 P05 IBM i) Costs			
Infrastructure Costs			
Server Specifications	IBM Power S914 / 2.3 GHz / 4 cores [1x4c]	IBM PowerVS S1122S Scale Out (Shared uncapped)	
Region	NA	US	
Purchase Method	NA	On-Demand / hour	
Server Costs	NA	\$28,204	+\$28,204
Support Cost (HWMA)	\$12,810	NA	-\$12,810
Power & Cooling Cost	\$2,891	NA	-\$2,891
Software Costs			
IBM i P05	NA	\$31,212	+\$31,212
IBM i P05 / Non-Expiring	\$53,887	NA	-\$53,887
IBM PowerVM Enterprise - Scale Out	\$3,072	NA	-\$3,072
Total	\$72,660	\$59,416	-\$13,245