PRECISION IT

Jan 7, 2026

3 Year Total Cost of Ownership (TCO) Assessment

S914 vs S1014 vs S1122 vs PowerVS v2

Executive Summary

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

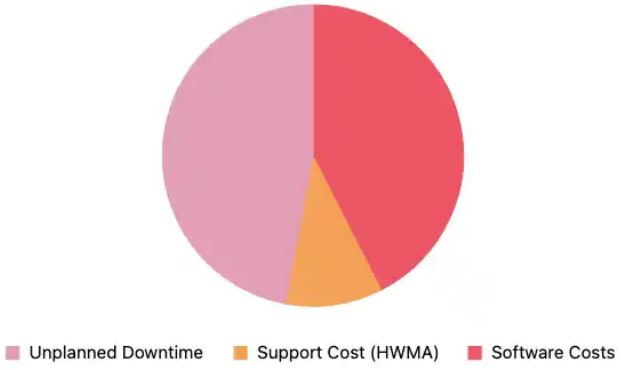
The results identify the **Power10 environment** as the most cost-effective option, delivering the greatest financial advantage among all evaluated options. This report is intended to support IT and procurement stakeholders in making informed infrastructure decisions by providing a clear financial comparison of available pathways.

Power10 Best

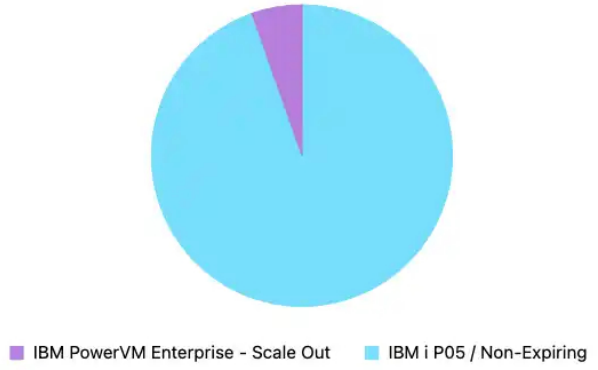
$89,240	32%	48%
3 year TCO Reduction	Expense Reduction	ROI

Savings Breakdown

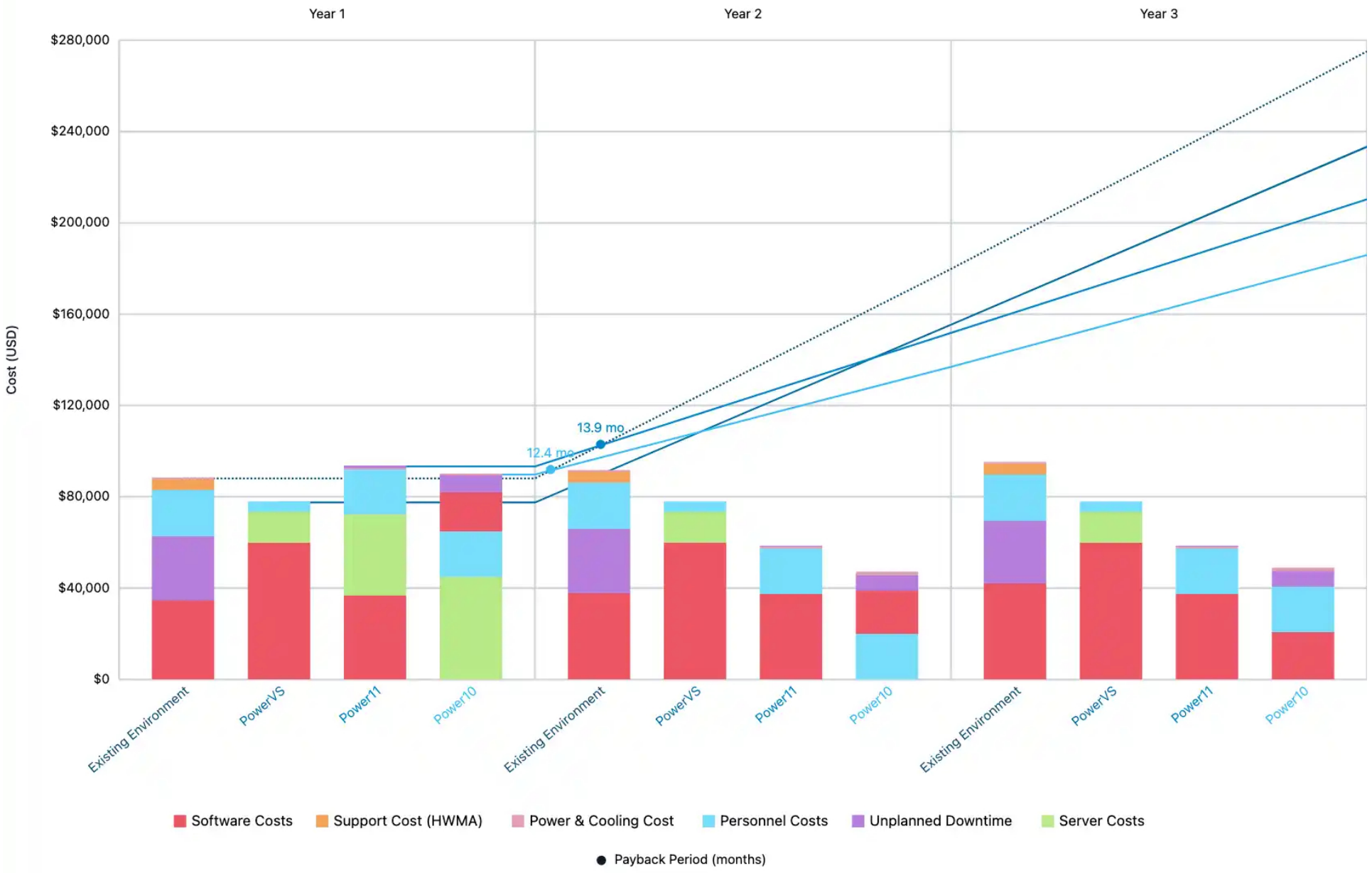
Savings by Category



Software Savings



Costs Timeline



Analysis Details

Description	Existing Environment	PowerVS	Power11	Power10 Best
Infrastructure Details				
Number of Servers	2	1	1	1
Server Specifications	IBM Power S914 / 2.8 GHz / 8 cores [1×8c]	IBM PowerVS S1122S Scale Out (Shared uncapped)	IBM Power S1122 / 3.6 GHz / 8 cores [2×4c]	IBM Power S1014 / 3 GHz / 8 cores [1×8c]
Total CPUs	2	NA	2	1
Total Cores	16	5.75	8 / 4 active	8
CPM @ Util %	26.6 @ 50%	27.1 @ 100%	30.5 @ 100%	49.8 @ 100%
Memory @ 100%	128 GiB	128 GiB	128 GiB	128 GiB
Carbon Emissions (CO_2e)	9,387 KG	NA	6,100 KG	9,708 KG
Overall Costs				
Server Costs	NA	$39,293	$35,234	$44,599
Support Cost (HWMA)	$14,004	NA	NA	NA
Power & Cooling Cost	$3,631	NA	$2,359	$3,755
Personnel Costs	$60,000	$15,000	$60,000	$60,000
Unplanned Downtime	$84,000	NA	$2,100	$21,000
Software Costs				
IBM i P05 / Non-Expiring	$107,774	NA	NA	$53,887
IBM PowerVM Enterprise - Scale Out	$6,144	NA	$1,536	$3,072
IBM i P10 / Subscription	NA	NA	$109,500	NA
IBM i P05	NA	$179,469	NA	NA
TCO Financials	**Existing Environment**	**PowerVS**	**Power11**	**Power10 Best**
Cost Reduction	NA	$41,790	$64,823	$89,240
Expense Reduction	NA	15%	24%	32%
ROI %	NA	18%	31%	48%
Payback Period	NA	Immediate	13.9 months	12.4 months
3 Year Total Cost of Ownership	**$275,552**	**$233,762**	**$210,729**	**$186,312**

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	16	5.75	-10.3
Total CPM	53.2	27.1	-26.1
CPM @ Util %	26.6 @ 50%	27.1 @ 100%	+0.5
Memory @ 100%	128 GiB	128 GiB	None
Environment Costs			
Personnel Costs	$60,000	$15,000	-$45,000
Unplanned Downtime	$84,000	NA	-$84,000
Total	**$144,000**	**$15,000**	**-$129,000**
Environmental Factors			
Kilowatt-hour Consumption (kWh)	24,204	NA	NA
Cost per kWh	$0.15	NA	NA
Power Usage Effectiveness (PUE)	1.5	NA	NA
Carbon Emissions ($C0_2e$)	9,387 KG	NA	NA
kWh to $C0_2e$	0.388	NA	NA

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	Existing Environment	PowerVS	Net Change
PowerVS (S1122-shared) Costs			
Infrastructure Costs			
Server Specifications	IBM Power S914 / 2.8 GHz / 8 cores [1×8c]	IBM PowerVS S1122S Scale Out (Shared uncapped)	
Region	NA	US	
Purchase Method	NA	On-Demand / hour	
Server Costs	NA	$39,293	+$39,293
Support Cost (HWMA)	$14,004	NA	-$14,004
Power & Cooling Cost	$3,631	NA	-$3,631
Software Costs			
IBM i P05	NA	$179,469	+$179,469
IBM i P05 / Non-Expiring	$107,774	NA	-$107,774
IBM PowerVM Enterprise - Scale Out	$6,144	NA	-$6,144
Total	$131,552	$218,762	+$87,210

Power11 - Environment Details

	Existing Environment	Power11	Net Change
Environment Overview			
Infrastructure Summary			
Number of Servers	2	1	-1
Total CPUs	2	2	None
Total Cores	16	8 / 4 active	-12
Total CPM	53.2	61 / 30.5 active	-22.7
CPM @ Util %	26.6 @ 50%	30.5 @ 100%	+3.9
Memory @ 100%	128 GiB	128 GiB	None
Environment Costs			
Personnel Costs	$60,000	$60,000	None
Unplanned Downtime	$84,000	$2,100	-$81,900
Total	**$144,000**	**$62,100**	**-$81,900**
Environmental Factors			
Kilowatt-hour Consumption (kWh)	24,204	15,729	-8,475
Cost per kWh	$0.15	$0.15	None
Power Usage Effectiveness (PUE)	1.5	1.5	None
Carbon Emissions ($C0_2e$)	9,387 KG	6,100 KG	-3,287 KG
kWh to $C0_2e$	0.388	0.388	None

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	Existing Environment	Power11	Net Change
S1122 Costs			
Infrastructure Costs			
Server Specifications	IBM Power S914 / 2.8 GHz / 8 cores [1×8c]	IBM Power S1122 / 3.6 GHz / 8 cores [2×4c]	
Server Costs	NA	$35,234	+$35,234
Power & Cooling Cost	$3,631	$2,359	-$1,271
Support Cost (HWMA)	$14,004	NA	-$14,004
Software Costs			
IBM i P10 / Subscription	NA	$109,500	+$109,500
IBM PowerVM Enterprise - Scale Out	$6,144	$1,536	-$4,608
IBM i P05 / Non-Expiring	$107,774	NA	-$107,774
Total	$131,552	$148,629	**+$17,077**

Power10 - Environment Details

	Existing Environment	Power10	Net Change
Environment Overview			
Infrastructure Summary			
Number of Servers	2	1	-1
Total CPUs	2	1	-1
Total Cores	16	8	-8
Total CPM	53.2	49.8	-3.4
CPM @ Util %	26.6 @ 50%	49.8 @ 100%	+23.2
Memory @ 100%	128 GiB	128 GiB	None
Environment Costs			
Personnel Costs	$60,000	$60,000	None
Unplanned Downtime	$84,000	$21,000	-$63,000
Total	**$144,000**	**$81,000**	**-$63,000**
Environmental Factors			
Kilowatt-hour Consumption (kWh)	24,204	25,032	+828
Cost per kWh	$0.15	$0.15	None
Power Usage Effectiveness (PUE)	1.5	1.5	None
Carbon Emissions ($C0_2e$)	9,387 KG	9,708 KG	+321 KG
kWh to $C0_2e$	0.388	0.388	None
S1014 Costs			
Infrastructure Costs			
Server Specifications	IBM Power S914 / 2.8 GHz / 8 cores [1×8c]	IBM Power S1014 / 3 GHz / 8 cores [1×8c]	
Server Costs	NA	$44,599	+$44,599
Power & Cooling Cost	$3,631	$3,755	+$124
Support Cost (HWMA)	$14,004	NA	-$14,004
Software Costs			
IBM i P05 / Non-Expiring	$107,774	$53,887	-$53,887
IBM PowerVM Enterprise - Scale Out	$6,144	$3,072	-$3,072
Total	$131,552	$105,312	**-$26,240**