Hewlett Packard Enterprise

ACCELERATED OUTCOMES, FINANCIAL VALUE ON YOUR TERMS

HPE GreenLake offers HPC as a service

MEET YOUR EXPANDING COMPUTING NEEDS WITH HPE GREENLAKE

Digital transformation is driving new data-intensive workloads and real-time analytics operating at an unprecedented scale. New software, compute, interconnect, and storage capabilities are needed to unlock the potential of your data and accelerate innovation. Help is at hand with high-performance computing (HPC) as a service from HPE GreenLake—a market-leading IT as-a-service offering.

HPC services powered by HPE GreenLake offer easy and affordable access to dedicated, powerful computing and analytics capabilities helping you make faster decisions and reduce time to discovery. Now, overprovisioning costs are a thing of the past with elastic capacity ready for growth or unpredictable spikes.

HPE GreenLake combines the simplicity, agility, and economics of public cloud with the security and performance benefits of on-premises IT. This consumption-based IT model helps you accelerate time to value, align IT economics with business priorities, simplify IT operations, and gain better control.

HPE GreenLake brings a consumption-based HPC model on-premises—or in a colocation—that delivers superior flexibility, scalability, and control. With HPC as a service, you can design your own HPC infrastructure solution using industry-leading HPE technologies, or you can standardize your service with pre-sized configurations that are self-service and managed for you.

A built-in technology refresh feature in your HPE GreenLake engagement allows you to benefit from the latest technology available in the market so you can stay competitive. What's more, HPE can buy out—and recycle—your existing infrastructure, helping you meet your sustainability targets.

HPE GREENLAKE MAKES HPC ACCESSIBLE AS A SERVICE

HPE GreenLake offers a broad range of consumption-based IT services with a simple, pay-per-use financial model. With HPE GreenLake, you:

1. Gain financial benefits with better discounted cash flows—and increase your net present value. Let's take an example of a quote for an HPE Apollo XL170r Gen10 Server cluster solution with InfiniBand, doubling capacity in five years. Figure 1 represents the cumulative cash flows for the quote.
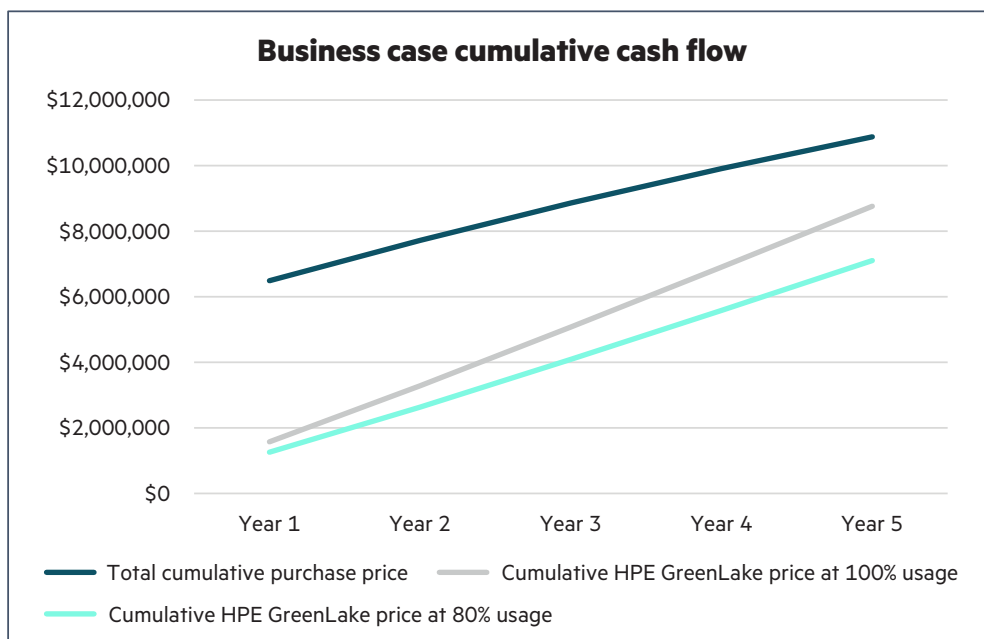

Business case cumulative cash flow

— Total cumulative purchase price
— Cumulative HPE GreenLake price at 100% usage
— Cumulative HPE GreenLake price at 80% usage

FIGURE 1. Example: Cash flows for HPE Apollo XL170r cluster solution with InfiniBand

Table 1 represents the investment analysis of the quote—a financial benefit of 20% (less than the CAPEX investment) with a full usage scenario and up to 35% benefit with 80% usage. You pay for only what you use above a reserve.

TABLE 1. Example: Investment analysis for HPE Apollo XL170r cluster solution with InfiniBand

	Purchase	HPE FC	Difference	% difference
Total 5-year price at 100% usage	$10,871,877.12	$8,756,540.56	$2,115,336.56	19.5%
Total 5-year price at 80% usage	$10,871,877.12	$7,105,704.15	$3,766,172.97	34.6%
Cost of capital % for PV	9%			
Overprovisioned capacity %	20%			
Technology refresh	Y			

Note: A positive value indicates FC is more favorable
Includes Advisory and Professional Services

This example indicates that HPC as a service offers more variability and flexibility to help meet your financial goals. You gain better cash flows and save more.

2. Avoid overprovisioning and underprovisioning by rightsizing the environment—you pay for what you use. Overprovisioning can lead to wasted capacity and expense. With purchase cycles lasting anywhere from three to six months, it's common to overprovision to avoid running out of capacity, leading to unnecessary expense. In case of HPC, workload fluctuations are more pronounced. So, the need for overprovisioning is much higher than a typical workload and the wait time—procurement—is closer to six months. As Figure 2 indicates, overprovisioning assets is not optimal. Underprovisioning, on the other hand, can cause failures, delays, or sluggish performance. HPE GreenLake offers increased ROI and reduced operational cost compared to your traditional IT purchase.
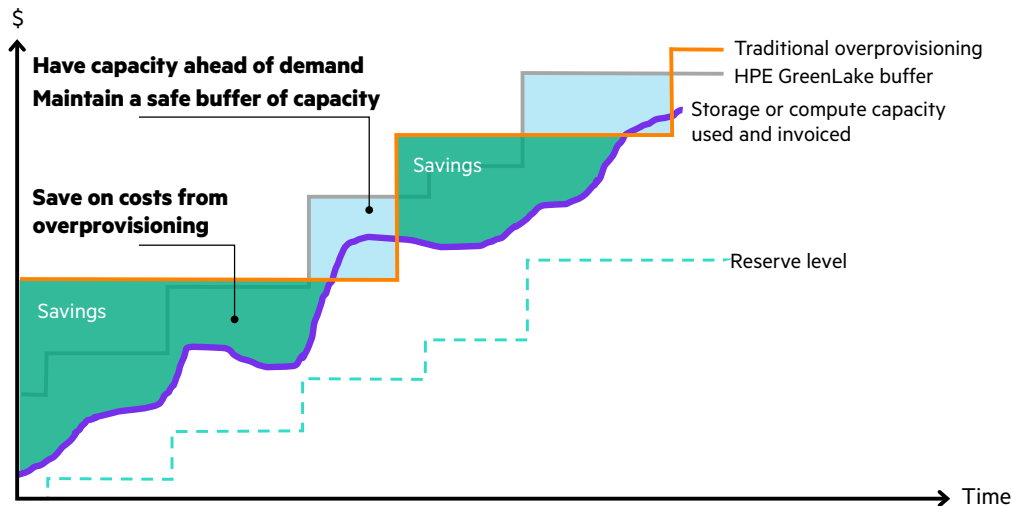

FIGURE 2. How HPE GreenLake benefits your IT

Consumption-based IT accelerates transformation

Outcome-based IT consumption delivers a range of benefits that you can't get from solutions solely built from scratch or bought from the public cloud. Delivering the best of both worlds, HPE GreenLake enables you to:

- Gain financial flexibility for your business: Choose the right proportion of reserved/on-demand capacity for your business needs.

- Align services with your business needs: We support, meter, and manage the capacity of your installed hardware—add additional services as needed to operate any or all of your IT stack.

- Pay only for what you consume: We meter your usage and you pay monthly for what you use above a reserve capacity.

- Gain capacity ahead of demand: We actively monitor, manage, and deploy capacity ahead of business demand.

- Choose the platform for your workload requirements: Select from a wide range of HPE solutions for faster deployment.

BENEFITS THAT MATTER

Get faster time to value for business agility.

Reduce risk with sensitive data in your control and on-premises. Get the flexibility of a public cloud with privacy and security of a private cloud.

Increase productivity with a proven model, including improved IT staff efficiency and productivity.

Simplify operating IT with HPE GreenLake management services that can take on routine infrastructure tasks—monitoring and operating your infrastructure and apps.

HPE GreenLake redefines computing to help you thrive in the Exascale era. Seize new opportunities and gain competitive advantage with flexible on-demand industry-leading HPC infrastructure that's ready when you need it.

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