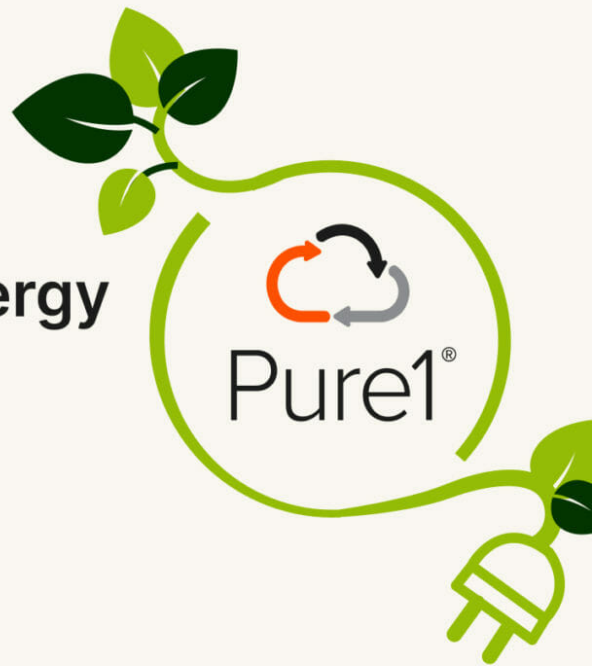


# Achieve Energy Savings with Pure1

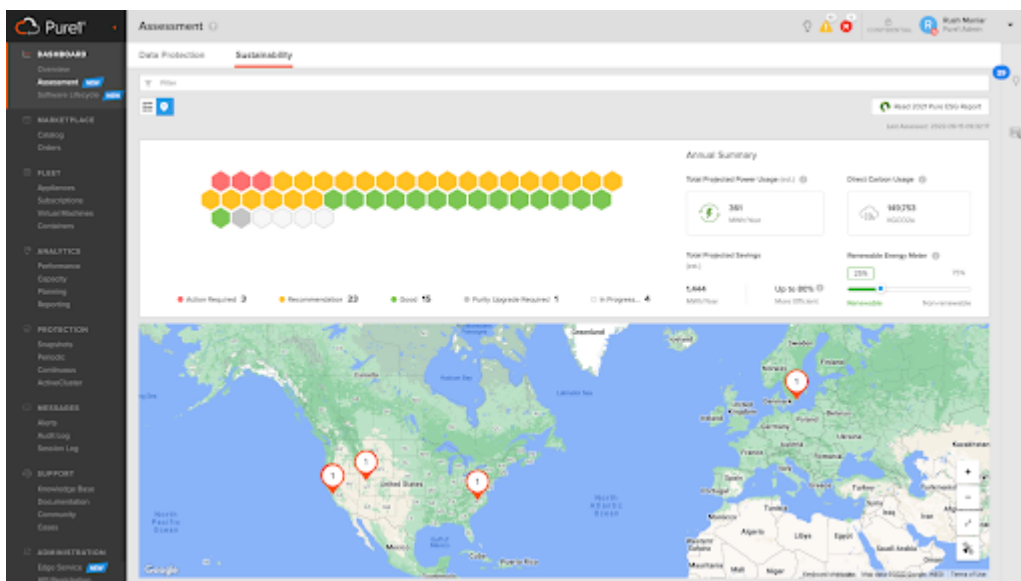
## Save Yourself the Energy

80% energy savings compared to competitor, all-flash solutions.



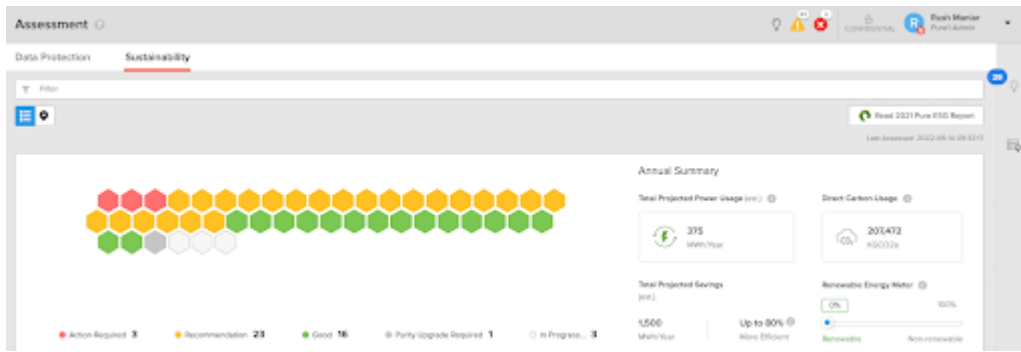
Sustainability and energy efficiency are key differentiators between Pure Storage® and the competition. In fact, we recently found that we can save customers up to 80% carbon energy consumption over other flash storage vendors (and even more against spinning disk arrays). [You can read all the great details in our 2021 ESG Report.](#) Thanks to our ultra-dense and efficient flash storage appliances, we can help you save on overall data center footprint and drive down expensive power and cooling requirements further.

However, Pure isn't just about being ultra-efficient; we're also about being ultra-transparent. That's why we're introducing a brand new Sustainability Assessment exclusively inside a tool you already own: [Pure1®](#).

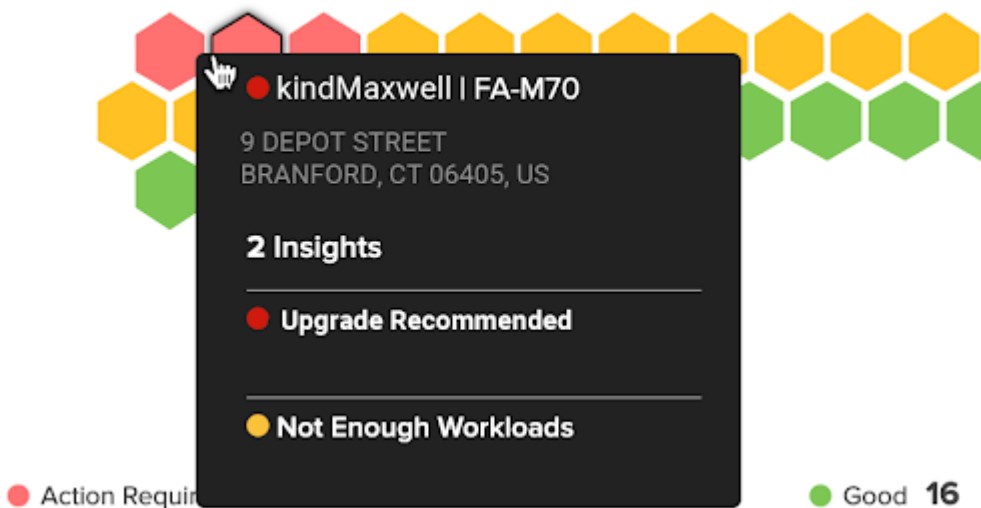


The new Pure1 Sustainability Assessment is all about providing transparency in how *your* Pure all-flash appliances are operating. Choosing Pure as your storage platform is a fantastic first step toward reducing your overall carbon footprint, and the Sustainability Assessment is designed to help you get the most out of it.

## What's in the Pure1 Sustainability Assessment?



The Pure1 Sustainability Assessment delivers at three main levels: Your overall energy and carbon usage across your entire organization, your consumption at the data center location level, and consumption at the individual array level. Whether you're providing high-level metrics to your environmental, social, and governance (ESG) teams or looking for actionable ways to reduce your overall energy needs, the Pure1 Sustainability Assessment is your go-to resource.



Each of your Pure flash appliances is represented in a color-coded map that highlights where your greatest savings opportunities can be found.



**kindMaxwell**

FA-M70 | 9 DEPOT STREET BRANFORD, CT 06405, US

2 Insights

**Upgrade Recommended**

**Recommended Action:**

You are using an older model. Recommend an upgrade. Contact account team for discussion or request a quote via the [Catalog](#).

**Not enough workloads**

**Recommended Action:**

Improve your power efficiency by adding more workloads and increasing the utilization for the appliance.

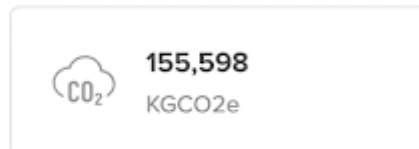
Clicking on one or more appliances will bring up actionable insights which include adding more workloads to better utilize the hardware or areas where you could gain greater efficiency through upgrades.

**Annual Summary**

Total Projected Power Usage (est.)



Direct Carbon Usage



Total Projected Savings (est.)

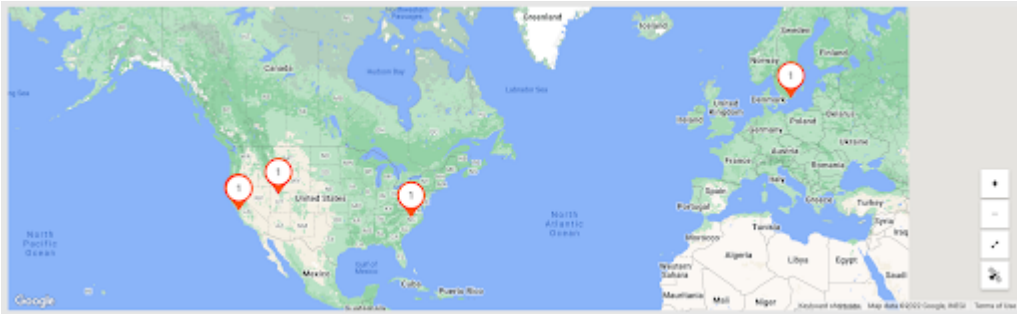
1,500 MWh/Year

Up to 80%   
More Efficient

Renewable Energy Meter



The annual summary provides you with an overall view across your entire organization. Using your current consumption rates, we're able to project your expected annual usage, both in terms of power consumption and your direct carbon usage based on Intergovernmental Panel on Climate Change calculations. The latter of which can be adjusted based on the percentage of renewable energy used to power your sites.



If you have storage distributed across multiple sites, the data center view will provide a better understanding of where your largest energy costs are.

### 1 CHARLES DR. TAYLORS, SC 29687, US

<b>Total Peak Power</b> Summarized 25 of 25 <b>36.269 kW</b>	<b>Total Actual Power</b> Summarized 25 of 25 <b>26.557 kW</b>	<b>Total Rack Units</b> Summarized 25 of 25 <b>107</b>
<b>Total Peak Heat</b> Summarized 25 of 25 <b>129,380 BTU/Hr</b>	<b>Total Actual Heat</b> Summarized 25 of 25 <b>90,581 BTU/Hr</b>	
<b>Total Used T</b> Summarized 25 of 25 <b>1,491 T</b>		

#### Appliances

- **11 Good**
- **12 Optimization available**
  - keenThompson **1 Insight** [View →](#)
  - laughingHugle **1 Insight** [View →](#)
  - hopefullamarr **1 Insight** [View →](#)
- **2 Action Required**
  - joyialElgamal **2 Insights** [View →](#)
  - practicalHoover **2 Insights** [View →](#)

For data center metrics, you'll see peak and actual power consumption metrics. Peak metrics are based on Pure1's benchmarks representing the upper boundary of what your hardware could draw, whereas the actual power metric represents your current power draw. Generated heat is calculated based on the peak and actual power metrics. You'll also get a great summary of recommendations for each data center.

Appliance	Model	Version	# of Shelves	# of Rack Units	Capacity	Load (%)	Power (W)		Heat (BTU/Hr)		Power Efficiency (Watts/T)	Location	
							Utilization (%)	DRR	Average	Nominal			Actual
<span style="color: green;">●</span> practicalHoover	RA-K7983	5.335- lightblue- PUB	0	3	2675	3.26	55	1804	1093	3,893	3,726	9	1 CHARLES DR. TAYLORS, SC 29687, US
<span style="color: green;">●</span> charmingHugle	RA-K7983	5.334- lightblue- PUB	0	3	2344	3.26	58	1804	1075	3,893	3,668	9	1 CHARLES DR. TAYLORS, SC 29687, US
<span style="color: red;">●</span> 2 joyialElgamal	RA-e50	6.231	2	7	3286	2.30	8	1,281	1,250	4,509	4,264	47	50 PACIFIC LAKE SECAUR, GA 30000
<span style="color: orange;">●</span> 1 optimandSpence	RA-C80	5.05- security- patch-16- 2022-04- 04	0	3	2184	1.40	3	1,900	864	3,580	3,356	11	50 PACIFIC LAKE SECAUR, GA 30000

There are several additional metrics at the appliance level such as the nominal power and heat value. Like the peak metrics, these metrics are also based on Pure's hardware benchmarks representing an average power draw (again, heat is calculated using power). We provide these metrics to give you a barometer to measure your actual usage against.

In addition, we include a capacity overview to give you an idea of how efficiently you're using each of your arrays. Could you be utilizing your storage better to improve your data reduction ratios (DRR) or rebalance your workloads and consolidate? Better utilization will also drive down a new hero metric called watts per terabyte. This represents your actual power consumption based on used storage before deduplication.

Array information, such as model numbers and software versions, is also included in the Sustainability Assessment. You can use it to identify aging hardware or arrays that may not have the latest performance-enhancing software updates. There's even information about the number of shelves and total number of rack units consumed by each appliance. Are you tying up RUs that could be saved by upgrading to newer, more dense hardware (with zero downtime)? This will tell you.

There's a ton of useful information in this initial release to help cut down on your [energy consumption](#) and costs. In the very near future, Pure1 will be able to provide you with actionable recommendations that you can take to drive up your efficiency. So don't just take our word for it, see how your Pure Storage appliances compare to the competition and start saving a whole lot of green.

[Learn more about Pure1.](#)

[Check out documentation on the Pure1 Sustainability Assessment.](#) (Login required)

