

European Solar Energy Storage

How much energy to destroy the solar system



Overview

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The scenario is that a well placed, but powerful enough explosive is placed in the center of the sun that can not only destroy the sun, but also have enough energy left after propagating to Neptune's orbit to be able to destroy it and all the planets before it by breaking there gravitational.

One participant calculates that it would take approximately 5.09×10^{37} tons of TNT to obliterate the Solar System, while a supernova is estimated at 1×10^{28} tons of TNT, indicating a supernova is significantly less powerful. Another contributor points out discrepancies in the calculations.

This page is where you'll find the exact joule value necessary to qualify for each tier, although I don't know for sure if the minimum for solar system level accounts for destroying just the solar system or if it would include the Oort Cloud as well, but either way what you're looking for should be.

Is it possible to destroy the solar system by launching a proton at the sun at a speed approaching c (as seen in cern 0.999999991) and then using the gravitational pull of the sun to accelerate it to an even faster speed such that its mass increases to a ridiculous amount and the resulting.

orbital motion - How much energy is required to remove Earth from it's orbit and exit the solar system under perfect conditions?

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much energy.

A planetary bombardment scene occurred where 17 shots was stated to have destroyed 30% of a planet's crust. Now obviously that's a HUGE amount of firepower, but it's not unrealistic for Star Trek as since the pilot episode of the original series they stated they had enough firepower to blast a. How much energy does it take to destroy Earth?

Using the formula for gravitational binding energy, we can calculate the amount of energy required to destroy Earth. With a mass of approximately 5.97×10^{24} kg and a radius of 6,371 km, the energy required to completely disperse Earth is a mind-boggling 2.25×10^{32} J.

What happens if a planet is destroyed?

A: Destroying a planet would have catastrophic consequences not just for the planet itself, but for the entire solar system. If a planet like Jupiter were destroyed, its massive gravitational field would likely send debris hurtling towards other planets, potentially causing a cascade of destruction throughout the solar system.

What if you want to destroy Earth?

If you want to destroy Earth, you have many options—at least when it comes to the extinction of humanity. Nuclear war, climate crisis or species extinction: over the course of human history, we have unfortunately found plenty of ways to destroy ourselves. But the planet doesn't really care.

Can superweapons destroy planets?

A: Pursuing superweapons that can destroy planets raises serious ethical and environmental concerns. The catastrophic consequences of such weapons would not just impact the target planet, but could also have ripple effects throughout the solar system, potentially causing irreparable harm to the delicate balance of the cosmos.

Can an asteroid destroy a planet?

But the planet doesn't really care. To actually destroy the planet, you would have to work a little harder. A collision with a large asteroid, for example, could make it uninhabitable and melt Earth's crust, but even that wouldn't destroy the Earth.

How much energy does an apocalypse need?

An apocalypse needs a lot or just a little energy—depending on what you compare it with. But what's really exciting is the math behind this ultimate destructive event. If you want to destroy Earth, you have many options—at least when it comes to the extinction of humanity.

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What Will It Take To Blow Up Pluto? - astroengine

So how much energy is required to do this? For this gargantuan task, I cheated and looked up the method used by Matt Springer over at Built on Facts to derive how much ...

Re: How big an explosion would it take to destroy our star system?

We really only need our explosion to be as large as the largest energy needed (plus the energy needed to destroy the Sun, which is relatively negligible). This is because ...



Destructive Capacity

Solar System Level - (5.709 Foe) The ability to destroy all the major bodies in the solar system, from the sun out to Neptune. Tons of TNT begin to no longer be adequate to measure this ...

[Request] How much energy would you need to destroy the

...

The Mass of the crust is about 0.8% that of Earth and the average thickness is about 40km (of the radius of 6371km) so the new GBE of Earth without a crust would be: $U_{\text{new}} = G (0.992M)^2 / \dots$



The Physics of the Death Star

Here are some of the larger asteroids and comet nuclei known in the Solar System; 1.24 trillion tonnes is only about the mass of the asteroid 5535 Annefrank, or one of the smaller asteroids in

[Request] How Much Energy Would it take to Destroy Every Star ...

To clarify, this isn't the Kinetic Energy needed to destroy every Star at once. This is the sum of the Gravitational Binding Energy of all stars in the known universe. So say the Sun's GBE + Rigel's ...



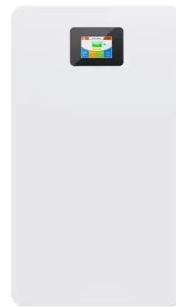
The Quantum Bubble That Could Destroy the Universe

If a blast of energy from a spinning black hole hit our planet, it could rip apart the entire solar system. As dramatic as these disasters are, they'd still leave behind rocks, gas and ...



Comprehensive Energy Scale

The purpose of this page made here is to explain where each AP and Tier are referred to and located at, as seen on the Attack Potency and Tiering System pages we have here respectively. This is so that newcomers and perhaps ...



Amount of Joules to destroy the Solar System+ Oort Cloud

If an explosion started on Earth and expanded to completely engulf the entire solar system, completely destroying it (along with the Oort Cloud), how many joules of energy ...

Could a supernova actually destroy (literally) a planet? : r

A plasma torch, with the thickness of millimeters, cuts an one inch steel plate in seconds. I believe that this theoretical supernova plasma burst would evaporate the entire solar system. Just the ...





How Much Antimatter Would It Take To Destroy The Earth

How much TNT would it take to destroy the sun?
- To completely vaporise the Sun you need to overcome something called its gravitational binding energy. To do that would ...

[Request] How strong is one bomb in this scene? And, if

[Request] How strong is one bomb in this scene?
And, if possible, how much bombs would it take to destroy the whole solar system?



Theory on how much power it takes to destroy planets

Either he can generate the kind of power necessary to destroy the solar system in one go, and then I don't see why he shouldn't be able to survive such an attack, or he would ...

[Debunking the Death Star](#)

This analysis discusses the energy required to overcome the gravitational cohesion of an Earth-sized planet. Energy Requirements To calculate the energy needed to destroy a planet, we must first operationalize the term "destroy". ...



This much Energy can Blow up Entire Earth

To understand how much energy it would take to destroy a planet, we first need to explore the concept of gravitational binding energy. This is the amount of energy required to completely disperse a planet, or in other ...



Could a gravitational wave rip apart an entire planet?

So, if we could magically make matter appear and disappear, so if we could create and destroy mass, which we can't do in the real universe because energy is conserved, energy is mass.



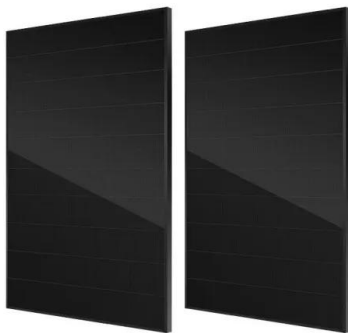
Watch: How Much Energy Does It Take to Blow Up a ...

When Manley runs the particulars of Earth through this equation, he figures out that it'd take about 2.25×10^{32} joules, or 225 million trillion trillion joules. For much larger planets such as Jupiter, you're going to need about 2 x ...



Can we theoretically destroy the Sun with an Anti-Matter Weapon

If by "destroy" you mean "disrupt beyond gravity's ability to reassemble", you'd need enough antimatter to create a release of energy large enough to overcome the gravitational binding ...



How much explosive force would be needed to rip apart an Earth ...

I've managed to calculate an upper limit: the gravitational binding energy of Earth is 2.5×10^{32} J, so applying that much energy would be enough to rip apart the Earth and send the parts flying ...

[Request] how many tons of tnt we would need to destroy the ...

According to Gizmodo, we need 2.25×10^{32} joules of energy. Now 1 ton of TNT is approximately equal to 4.184×10^9 joules. $(2.25 \times 10^{32} \text{ J}) / (4.184 \times 10^9 \text{ J/ton}) \approx 5.37 \times 10^{22}$ tons of TNT ...



How Much Energy Would It Take to Blow Earth to Smithereens?

How Much Energy Would It Take to Blow Earth to Smithereens? A mathematical formula shows what would be needed to reduce the planet to

cosmic dust



How Much Energy Would It Take to Blow Earth to ...

How Much Energy Would It Take to Blow Earth to Smithereens? A mathematical formula shows what would be needed to reduce the planet to cosmic dust



Solar System destroyed vs Supernova

They conclude that a supernova is indeed hundreds of times more powerful than the energy needed for Solar System destruction, despite some calculation errors. The ...

physics

At the very least I'm trying to find out how much energy would be needed to vaporize a planet's entire crust right down to the mantle. If $E=mc^2$ is enough to figure that out, ...





How much energy is required to remove Earth from its orbit and ...

The goal being to remove Earth from its orbit and exit the solar system. By "perfect conditions" I mean that hypothetically when this does happen, no other planets or ...

How to Destroy a Planet: The Physics of the Death Star

Assuming the death star weighs as much as the moon, if it fired 2.24×10^{32} J of energy, it would accelerate about 48 miles (78 km) away from Alderaan per second.



Attack Potency

Solar System level: The star system known as the Solar System. Multi-Solar System level: Instead of doubling the value of Solar System level, the distance between two ...

Energy to destroy our solar system?

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