

# Christmas Island electrolytic separator energy upgrade

Does the electrolytic separator respond to energy upgrades?

Sign up for free to join this conversation on GitHub . Already have an account? Sign in to comment The Electrolytic Separator, when separating Water into Hydrogen and Oxygen gas, does not respond to Energy Upgrades. Other machines do. The Electrolytic Separator is being powered by Advanced Univ...

How to prevent infinite energy exploit in electrolytic separator?

To prevent the infinite energy exploit we only need to apply this simple modification when used in Electrolytic Separator  $\text{DefaultUsage} \cdot \text{EnergyMultiplier}^{(2 \cdot \text{SpeedUpgrades} - \text{MIN}(\text{EnergyUpgrades}, \text{SpeedUpgrades}))/8}$

Should I upgrade an electrolytic separator or a speed+energy upgrade card?

And since an Electrolytic Separator is not that much more expensive than a speed+energy upgrade card, it really doesn't make sense to consume 100x power (operate them at 10% efficiency). Difference in material between upgrading 1 separator vs building 9 more (10x speed either way)

Should a gas separator be upgraded?

If not, and you have just speed, that'll do it. Also, depending on which machine they're pumping into, use the "gas" upgrade in that machine. It will upgrade the efficiency. Should use less of said gas that way, so the separator will not have to work as hard. Something's wrong there.

Why is my electrolytic separator not giving more gas?

There is an issue that happens with multiple electrolytic separators where they start eating all of the power and not giving more gas. Try breaking them all and putting one at a time back down and turning it on, that has usually fixed it for me. I actually had this problem last night.

"Electrolytic Separator" does accept "Energy Upgrades" but if you put some in the power consumption don't sink. Steps to reproduce: Take "Energy Upgrades" in inventory and open "Upgrade"-GUI at "Electrolytic Separator" Put "Energy Upgrades" in Upgrade-Slot and let them load; Control your power consumption of the machine.

Version : 1.10.2-9.1.1.290 Repro: put 8 x energy upgrade into the Electrolytic Separator, and watch the energy consumption (I am showing RF, so 160 RF/t with 0x energy upgrade, and 160 RF/t with 8x energy upgrade) I am pretty sure any nu...

Optimal power setups for the Electrolytic Separator. So in order to get more ore with Mechanism you need oxygen and you need an Electrolytic Separator for that. I used all 8 energy upgrades and it still chugs through power like there is no tomorrow.

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This also happens to be why the Electrolytic Separator is the only machine to not get the efficiency boost from using Energy Upgrades. If you need Hydrogen, then you actually do need to supply that much power (from any source). Ethylene (which is made from Hydrogen) burned in the Gas-Burning Generator is probably Mechanism's strongest non ...

Issue description. Perhaps I am doing something wrong, but the addition of Energy Upgrades into the electrolytic separator appears to have no impact on overall energy usage, while speed upgrades have a major effect.

Try getting a bunch of energy upgrades into your electrolytic separator to reduce its energy usage/tick. Make sure you're dumping excess oxygen or using it so it doesn't stop hydrogen production. Potentially add both upgrades to your separator, keeping them 1:1 will directly increase efficiency however it will increase total power and water usage.

Separators use high amounts of energy, especially when upgraded, to avoid an infinite energy exploit by feeding the Hydrogen from water to a Gas-Burning Generator. If you have no better use for the Hydrogen, it's still a good use for it, but add a buffer tank between the separator and generator for refueling jet packs and flamethrowers.

Energy Upgrades only increase the energy storage buffer in the Electrolytic Separator. Electrolytic Separators can produce Hydrogen, which can be burned in a Gas-Burning Generator to produce power. This is locked at 100% efficiency.

During the investigation I discovered a discrepancy between the documentation and the observed behavior concerning speed upgrades. The wiki (<https://wiki.aidancbrady.com/wiki/Upgrades>) says that power consumption should go up by a factor of 100 (for a 10 times speed increase) when 8 speed upgrade cards are used. It also ...

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The electrolytic separator has a weird power usage using upgrades, for example, a stock separator uses 400j/t and produces the same amount in hydrogen that the gas generator is burning. If all 8 energy upgrades are installed, the energy usage is reduced to 40j/t while the gas production stays the same.

Issue description When you install energy upgrades into the electrolytic separator it had no effect on its energy consumption, only its power pool. Checked change logs of newer versions, they don't mention a fix for this, and I'm running...

I read your question again, and for what i understand that if the output buffers are full the machine is still

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drawing energy. If this is the case then the first thing I would suggesting is to check what is the usage of your output is, because what it might happen is: machine A requires 10 oxygen per tick, and your electrolytic separator produces 100 oxy per tick, then when the backlog of oxy is ...

Separators use high amounts of energy, especially when upgraded, to avoid an infinite energy exploit by feeding the Hydrogen from water to a Gas-Burning Generator. If you have no better ...

It costs the same amount of energy to separate water into oxygen/hydrogen as you get by burning the hydrogen; and energy upgrades don't make the separator more efficient for balancing. All your power is either coming from the solar panel or stored in the cables and machine buffers

2 Electrolytic separators (Upgrades: 8 energy, 3 speed) 2 PRCs (Upgrades: 8 energy, 8 speed) 2 Crushers (Upgrades: 8 energy, 8 speed) 3 Gas-burning generators I have seen this setup a bunch of times on this subreddit and on some E2E playthroughs on but I can't seem to get it working properly. Here are some things I've already tried/checked:

The described energy generation exploit were only possible when there were more energy upgrade cards than speed upgrade cards, making Hydrogen generation cheaper (in terms of power cost) than power produced burning it.

I'm making an ore tripler system and I need oxygen for it. so when I'm using the electrolytic separator for some reason the energy upgrades don't work so it ends up using 40,960RF/t which cant be right. does anyone know a workaround or maybe something in the configs?

Issue description My electrolytic separators, with 8 speed upgrades, use 40.96 kFE/t no matter how many energy upgrades are installed. Steps to reproduce No response Minecraft version 1.16.5 (Latest) Forge version 36.2.30 Mekanism versio...

Issue description the electrolytic separator is not working the energy upgrade, you put all 8 and it doesn't reduce energy consumption in any way, even putting 1 upgrade doesn't decrease anything Steps to reproduce ...

The Electrolytic Separator, when separating Water into Hydrogen and Oxygen gas, does not respond to Energy Upgrades. Other machines do. The Electrolytic Separator is being powered by Advanced Universal Cable, if that matters.



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