



# Hazardous waste generated by manufacturing photovoltaic panels

Are solar panels a hazardous waste under RCRA?

If these metals are present in high enough quantities in the solar panels, solar panel waste could be a hazardous waste under RCRA. Some solar panels are considered hazardous waste, and some are not, even within the same model and manufacturer.

Will EPA add hazardous waste solar panels to Universal Waste Regulations?

EPA is working on a proposal to add hazardous waste solar panels to the universal waste regulations found at Title 40 of the Code of Federal Regulations Part 273 and to establish a new, distinct category of universal waste specifically tailored to lithium batteries.

Are solar panels hazardous waste?

The discarded solar panel, which is now considered solid waste, may then also be regulated under RCRA Subtitle C as hazardous waste if it is determined to be hazardous. The most common reason that solar panels would be determined to be hazardous waste would be by meeting the characteristic of toxicity.

Are end-of-life solar panels a source of hazardous waste?

End-of-life (EOL) solar panels may become a source of hazardous waste although there are enormous benefits globally from the growth in solar power generation. Global installed PV capacity reached around 400 GW at the end of 2017 and is expected to rise further to 4500 GW by 2050.

Can solar panels be managed as universal waste?

Management as universal waste will improve management of all solar panel waste whether hazardous waste or not. This change in the RCRA regulations would provide a clear, practical system for handling discarded solar panels.

Are solar panels EOL hazardous waste?

In summary, the management of panels EOL and other hazardous waste is obligatory. Additionally, governments must adopt hard-line policies to enforce the manufacturers of solar PV materials to consider the consequence of their products on the environment.

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