



The harmless treatment of PV recycling is in an urgent need of attention, Coveme weather-resistant fluorine-free backsheets are outstanding

Recently, the Sixth PV Module materials and Technology Summit Forum, with the topic of 'Focusing on the sustainable development of PV materials technology' and 2016 PV Top Runner Innovation Forum-Workshop on Backsheets Technology were held subsequently. Business leaders, technical experts, and many other people came together, had a depth discussion about the practical application and development of raw materials, like backsheets and coatings on PV modules; and the current research progress and the trend of new modules in the future. Coveme, the world's leading supplier of solar backsheets attended these two forums, and represented by its R&D Engineer Mr. Stephen, delivered the speech on 'The evaluation and analysis of the life cycle of PV modules and its recovery,' so as to raise peoples' awarness and attention on "EOL of Backsheets", which was highly appraised by the guests.

Coveme said, since February 1st this year, The EU mandates all manufacturer of photovoltaic modules, importers and traders, in principle, register for the products and shall assume the obligations of waste modules recycling. The offenders will face huge fines. In contrast, the Chinese market for PV modules recycling or harmless treatment is still blank relatively. In particular, the recovery of fluorine backsheets cannot be ignored, which is very easy to cause the pollution.

According to well-known consulting firm HIS' s prediction, that by the end of 2016, Global installed PV projects would be more than 310GW, including Chinese market as high as 20%. If 1GW install base needs 2500 tons of backsheets, it means that there are about 800 thousand tons of the backsheets need to be gradually recycled based on the accumulated installation so far this year. In the other hand, according to the prediction of International Photovoltaic Association EPIA, from 2020 to 2030, the

first peak of PV modules scraps is coming. Therefore, the harmless treatment of backsheets scraps is in an urgent need of attention.

With more than 17 years experiences on the development and mass production of backsheets , Coveme has successfully developed the weather-resistant environment-friendly fluorine free PPE backsheets. Coveme said, compared with the common fluoride backsheets on the market, fluorine free backsheets are more outstanding in total cost, durability and environmental protection. At present, high temperature decomposition is the most effective way of harmless recovery, and it' s completely feasible for fluoride free backsheets. Otherwise, after high temperature decomposition, the emissions of fluorine compounds reach 0.021% of the initial weight and require different systems, which means higher costs. In durability, the PV modules with PPE backsheets has no obvious yellowing, no snail track, no hot spot after using in central Italy area for seven years.

Coveme said, 'We have always been committed to providing PV sustainable development solutions for the industry. At present, our nontoxic polyester backsheets can achieve 100% recyclable, not only protect the modules from the erosion of external environmental factors, but also realize the ecological environment protection. In addition, in the process of backsheets, the waste PET are recycled by specialized company, and turned into the textile fibers and non-woven fiber etc. For the future, we hope that more people focus on the whole life cycle of PV products, and use the environmentally friendly products, such as fluorine-free backsheets, so as to further enhance the sustainability and economy of the PV modules. "

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