

OverviewEnvironmental and health impactHistoryTheory of operationMaterialsEfficienciesProduction, cost and marketDurability and lifetimeIn order to meet international renewable energy goals, the worldwide solar capacity must increase significantly. For example, to keep up with the International Energy Agency's goal of 4674 GW of solar capacity installed globally by 2050, significant expansion is required from the 1185 GW installed globally as of 2022. As thin-film solar cells have become more efficient and commercially viable, it has become clear that they will play an important role in meeting these goals. As such...

