

Global ITO Target for Flat Panel Displays and Solar Battery Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G003C1306A67EN.html>

Date: June 2026

Pages: 118

Price: US\$ 3,480.00 (Single User License)

ID: G003C1306A67EN

Abstracts

According to our (Global Info Research) latest study, the global ITO Target for Flat Panel Displays and Solar Battery market size was valued at US\$ 1214 million in 2025 and is forecast to a readjusted size of US\$ 1907 million by 2032 with a CAGR of 6.6% during review period.

ITO targets for flat panel displays and solar cells are key functional materials based on indium oxide and tin oxide, densified through forming, sintering, and bonding, and then used in magnetron sputtering to deposit transparent conductive films. They primarily address the need to balance optical transparency and electrical conductivity in display devices and photovoltaic devices. Their core role is to provide stable transparent electrodes, pixel electrodes, or window electrodes for LCDs, OLEDs, touch panels, automotive displays, thin-film solar cells, HJT cells, and certain perovskite cells, while supporting large-area mass production through technical routes such as planar and rotary targets, anti-nodule design, low-temperature crystallization, high infrared transmittance, flexible-display adaptation, and recycling. These routes improve film uniformity, target utilization, the balance between sheet resistance and transmittance, and supply-chain sustainability. Mainstream market offerings currently include planar and rotary ITO targets with compositions such as 90:10, while differentiated products are expanding toward high-mobility, low-temperature-process, flexible-display, and recycled-content-certified solutions. Commercially, the sector is mainly driven by direct sales, long-term supply agreements, and customized development after qualification by panel makers and cell manufacturers, and is often combined with indium recycling, refining, and target bonding services to form a closed-loop supply capability.

The strategic value of ITO targets in flat panel displays and solar cells is evolving from

that of a traditional transparent electrode material into a core enabling material for next-generation high-performance thin-film devices. In the past, the industry focused primarily on the basic balance between transparency and conductivity. However, official product pages and technical materials now show that competition is shifting toward anti-nodule performance, low-temperature crystallization, high infrared transmittance, flexible-display compatibility, higher mobility, better yield, and broader process compatibility. This means ITO targets are no longer merely standardized consumables, but materials that expand process windows and improve mass-production efficiency in display panels, touch modules, automotive displays, HJT cells, and certain perovskite cells. In particular, the parallel development of planar and rotary targets in large-area deposition and continuous coating scenarios enables suppliers to offer differentiated solutions based on equipment platform, film uniformity, and target utilization. As both displays and new energy continue to advance, the growth logic of the ITO target sector is shifting from dependence on a single panel cycle to a dual-engine structure driven by both display upgrades and photovoltaic expansion.

On the supply side, the ITO target industry is increasingly characterized by the simultaneous strengthening of 'high-end qualification capability' and 'regional localization capability.' Japanese suppliers continue to lead in advanced material design, global customer validation, and long-term stable supply, while mainland Chinese suppliers are accelerating their transition from catching up, to filling gaps, to partially replacing imports, supported by a more complete local manufacturing base, rapidly expanding domestic demand from displays and solar cells, and stronger industrial coordination. Companies such as Longhua, Omat, Acetron, ENAM, and Torch Antai are no longer limited to display applications alone, but are actively extending their products into solar cells, semiconductors, and other functional thin-film fields. This indicates that China's supply system is building stronger multi-application support capacity. At the same time, the scarcity and cost sensitivity of indium are transforming recycling capability from an auxiliary service into a core barrier to entry. Tosoh's recycling system and Solar Applied's recycled-content certification both indicate that future winners will be those that can integrate virgin materials, recycling and refining, target manufacturing, and customer take-back into a closed-loop model, thereby gaining simultaneous advantages in cost, delivery, and ESG performance.

From a market-outlook perspective, the medium-term sentiment for the ITO target industry remains constructive. Although the display segment is now relatively mature, ongoing upgrades in higher resolution, automotive displays, flexible formats, and new optical devices will continue to support demand for high-performance transparent conductive films. Meanwhile, the new-energy segment provides a stronger source of

incremental growth. The International Energy Agency continues to project robust solar deployment growth, while Europe and the United States are rebuilding solar manufacturing capacity through local-manufacturing programs, training initiatives, subsidies, and industrial policy. This will continue to stimulate demand for transparent conductive materials and critical sputtering targets. In China, explicit support for ITO targets within standards and advanced-material catalogs further reduces uncertainty around domestic substitution. Overall, the industry is likely to develop along three major directions: premium-grade specialization, solar-driven demand expansion, and competitive restructuring led by closed-loop recycled-resource capability. For companies with high-end qualification, global delivery strength, and integrated recycling capability, the next two to three years still represent a structural expansion window.

This report is a detailed and comprehensive analysis for global ITO Target for Flat Panel Displays and Solar Battery market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global ITO Target for Flat Panel Displays and Solar Battery market size and forecasts, in consumption value (\$ Million), sales quantity (Ton), and average selling prices (US\$/Kg), 2021-2032

Global ITO Target for Flat Panel Displays and Solar Battery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Ton), and average selling prices (US\$/Kg), 2021-2032

Global ITO Target for Flat Panel Displays and Solar Battery market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Ton), and average selling prices (US\$/Kg), 2021-2032

Global ITO Target for Flat Panel Displays and Solar Battery market shares of main players, shipments in revenue (\$ Million), sales quantity (Ton), and ASP (US\$/Kg), 2021-2026

The Primary Objectives in This Report Are:

Global ITO Target for Flat Panel Displays and Solar Battery Market 2026 by Manufacturers, Regions, Type and Ap...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for ITO Target for Flat Panel Displays and Solar Battery

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global ITO Target for Flat Panel Displays and Solar Battery market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mitsui Mining & Smelting Co., Ltd., JX Advanced Metals Corporation, Tosoh Corporation, LT Metal Co., Ltd., ANP Co., Ltd., Umicore, Longhua Technology Group (Luoyang) Co., Ltd., Yeke Technology Co., Ltd., Guangdong Omat Advanced Materials Co., Ltd., ENAM OPTOELECTRONIC MATERIAL CO., LTD., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

ITO Target for Flat Panel Displays and Solar Battery market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Plane Target

Cylindrical Target

Market segment by Performance Grade

Standard Grade

Low-Temperature Crystallization Grade

High-Infrared-Transmittance Grade

Market segment by Composition Ratio

90:10

93:7

97:3

Market segment by Application

Laptop and TV

Thin Film Solar Cell

Touch Screen Panels

Major players covered

Mitsui Mining & Smelting Co., Ltd.

JX Advanced Metals Corporation

Tosoh Corporation

LT Metal Co., Ltd.

ANP Co., Ltd.

Umicore

Longhua Technology Group (Luoyang) Co., Ltd.

Yeke Technology Co., Ltd.

Guangdong Omat Advanced Materials Co., Ltd.

ENAM OPTOELECTRONIC MATERIAL CO., LTD.

Zhuzhou Torch Antai New Materials Co., Ltd.

Fujian Acetron New Materials Co., Ltd.

Solar Applied Materials Technology Corp.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe ITO Target for Flat Panel Displays and Solar Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of ITO Target for Flat Panel Displays and Solar Battery, with price, sales quantity, revenue, and global market share of ITO Target for Flat Panel Displays and Solar Battery from 2021 to 2026.

Chapter 3, the ITO Target for Flat Panel Displays and Solar Battery competitive

situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the ITO Target for Flat Panel Displays and Solar Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and ITO Target for Flat Panel Displays and Solar Battery market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of ITO Target for Flat Panel Displays and Solar Battery.

Chapter 14 and 15, to describe ITO Target for Flat Panel Displays and Solar Battery sales channel, distributors, customers, research findings and conclusion.

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