

Global N-type Bifacial Cell Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global N-type Bifacial Cell market size is expected to reach \$ 36636 million by 2032, rising at a market growth of 13.3% CAGR during the forecast period (2026-2032).

N-type Bifacial Cell is an advanced photovoltaic cell that, unlike traditional single-sided solar cells, can absorb solar energy from both the front and back directions and convert it into electrical energy. The N-type structure uses phosphorus-doped silicon as the substrate, providing higher electron mobility, reduced light-induced degradation (LID), and better tolerance to metal impurities compared to conventional P-type cells. This bifacial design enables energy capture from reflected sunlight (albedo) on the rear side, significantly increasing overall power output per unit area. Common N-type bifacial cell technologies include TOPCon (Tunnel Oxide Passivated Contact), HJT (Heterojunction Technology), and PERT (Passivated Emitter Rear Totally-diffused).

The upstream segment includes suppliers of high-purity polysilicon, N-type monocrystalline silicon wafers, silver paste, aluminum paste, and specialized production equipment (diffusion furnaces, PECVD, printing lines). The midstream segment encompasses cell manufacturing processes including texturing, diffusion (phosphorus doping), passivation layer deposition (Al_2O_3 , SiN_x), metallization, and quality testing performed by specialized solar cell manufacturers. N-type bifacial cells are categorized by technology type into TOPCon cells, HJT cells, and PERT cells; by wafer size into M10 (182mm), G12 (210mm), and others; by application into utility-scale PV power stations, commercial & industrial rooftops, and residential installations; by efficiency into >26% and

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