

Pelletizing Machine Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 to 2032

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Abstracts

The Global Pelletizing Machine Market reached USD 2.9 billion in 2023 and is projected to experience 3.8% CAGR from 2024 to 2032, driven by high-quality feed essential for livestock health. Pelletized feed is increasingly favored for its nutritional advantages and ease of handling, further stimulating the demand for pelletizing machinery. Recent advancements in pelletizing technology enhance market appeal, particularly through improved efficiency, reduced energy consumption, and superior pellet quality. The adoption of automation and smart technologies is becoming more prevalent in the industry, making operations more efficient.

Moreover, the rising interest in wood pellets for heating and industrial applications, especially in regions like Europe and North America, encourages investments in pelletizing equipment. Consequently, the market is poised for robust growth, fueled by the expansion within the animal feed sector, increasing demand for biomass energy, advancements in pellet production technology, and growth in the wood pellet market. When categorized by type, the underwater pelletizing machine segment generated around USD 1.1 billion in revenue in 2023 and is anticipated to grow at a CAGR of approximately 4.2% during the forecast period. Underwater pelletizers work by shaping molten polymer into pellets as they outlet spherical die holes, and they are becoming more integrated into recycling lines, particularly for engineering plastics.

These systems enhance material recovery rates and support extensive automation, allowing features such as blade sharpening and in-line die-plate grinding to be managed by PLC controls, which significantly reduces downtime. In terms of end-use industries, the biomass energy segment accounted for about 32% of the overall market share in 2023 and is expected to grow at a CAGR of 4.2% from 2024 to 2032. The push for

renewable energy is driving the production of biomass pellets for heating and power generation. Innovations in pelletizing technologies are improving both the efficacy and superiority of these pellets, positioning them as a viable source of alternative energy. Additionally, the industry increasingly utilizes diverse feedstocks, such as agricultural residues and wood waste, to maximize resource efficiency.

North America dominated the pelletizing machine market with a share of approximately 30% in 2023 and is forecasted to grow at a CAGR of around 3.9% through 2032. The growth is driven by the growing necessity for biomass energy, an increase in animal feed production, developments in plastic recycling, and continual technological investments. Pelletizing machines find applications across various industries, including plastics, food, and pharmaceuticals, creating numerous growth opportunities. The focus on producing high-quality, consistent pellets indicates the market's commitment to product excellence.

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