

Advanced Bipolar Direct Energy Devices Market Size, Share & Trends Analysis Report By Product (Electrosurgical Generator Systems, Bipolar Electrosurgical Devices), By End Use, By Region And Segment Forecasts, 2024 - 2030

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Abstracts

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Advanced Bipolar Direct Energy Devices Market Growth & Trends

The global advanced bipolar direct energy devices market size is anticipated to reach USD 4.44 billion by 2030, registering a CAGR of 4.8% from 2024 to 2030, according to a new report by Grand View Research, Inc. Increasing adoption of bipolar electrosurgical systems over conventional devices and high demand for laparoscopic surgeries are anticipated to boost the market growth.

These systems are mostly used to coagulate, cutting, fulguration, and desiccate soft tissues through generating heat by an electric current. The product demand has been increasing owing to its benefits in surgical procedures, such as lower risk of hemorrhaging than conventional devices that focus on scalpels. In addition, conventional equipment are costlier, which is also driving the demand for advanced bipolar direct energy systems for improved safety in desiccating soft tissues.

Technological advancements in the field are further expected to augment the market growth. For instance, XCELLANCE Medical Technologies launched a new 6-sense technology designed for cutting tissues at lower voltages by sensing voltage and power. This technology minimizes the patient recovery time and is a versatile tool for hemostatic dissection in performing surgical procedure.

Advanced Bipolar Direct Energy Devices Market Report Highlights

Electrosurgical generator systems led the global market in 2023. The segment is projected to expand further at the fastest CAGR from 2024 to 2030

Hospital was the dominant end use segment in 2023 owing to increased number of laparoscopic surgical procedures for tissue coagulation performed in these healthcare settings

North America led the global advanced bipolar direct energy devices market in 2023. However, Asia Pacific is estimated to be the fastest-growing regional market over the forecast period

These companies focus on technological advancements to gain competitive advantage. Medtronic launched Aquamantys bipolar sealers designed by transcollation technology, which combines Radiofrequency (RF) energy and saline to provide hemostatic sealing of soft tissues

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