

North America Tunable Diode Laser Analyzer Market Forecast to 2028 - COVID-19 Impact and Regional Analysis

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AVAILABLE LICENSES:

- Single User Price \$3000.00
- Site Price \$4000.00
- Enterprise Price \$5000.00

Report description:

The North America tunable diode laser analyzer market is expected to grow from US\$ 134.22 million in 2022 to US\$ 178.09 million by 2028; it is estimated to grow at a CAGR of 4.8% from 2022 to 2028.

Rising Awareness Regarding Green Sustainability

The rising concern towards global warming is leading to air quality deterioration and health concerns. Many economies are making tremendous efforts and massive investments in adopting new technology to detect and limit hazardous gases such as CH₄, CO₂, CO, H₂S, and HONO in the atmosphere. Several initiatives by the governments for the development of green sustainability are driving the growth of the tunable diode laser analyzer market. Government regulations, such as the US Clean Air Act which was revised proposed in 1990 by the Environmental Protection Agency (EPA), have been proposed for boilers and incinerators that burn solid waste emissions standards. These standards cover more than 200,000 boilers and incinerators that emit harmful air pollution, such as mercury, cadmium, and particle pollution. As per the US Environmental Protection Agency, there are approximately 1.3 million natural gas-fired boilers in the US. The area source standards cover around 183,000 boilers at 92,000 area source facilities approximately 86% of all boilers burn clean natural gas and emit pollution. As a result, tunable diode laser analysis is in high demand in various industrial sectors. Tunable diode laser absorption spectroscopy (TDLAS) has been widely used to reduce greenhouse gas emissions and measure combustion gas emissions. Supportive government policies across the region are driving the growth of the tunable diode laser analyzer market. Policies that encourage the installation of energy-efficient heating systems and a shift in the trend toward zero-emission buildings are further supporting the growth of the tunable diode laser analyzer market.

Market Overview

As per the US Energy Information Administration (EIA), it is expected that during the first quarter of 2020, the natural gas will

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provide nearly 37% of electricity generation in 2022, which is like the level in 2021. Further, US Energy Information Administration (EIA), estimated that 36% of electricity generation in 2023 will be from natural gas generation, whereas coal will provide 21% of total US electricity generation in 2022. Therefore, from the above statistics by the US Energy Information Administration (EIA), it is observed that the demand for coal-fired electricity is increasing. Thus, the rising electricity demand is leading to the increasing demand for tunable diode laser analyzers in power plants, which will also increase to limit the emission of carbon dioxide and other toxic gases. The US government signed the Paris Agreement (PA), which became effective in November 2020. Further, the US Climate Change Policy and the Clean Air Act Environmental Protection Agency (EPA) had the authority to regulate GHG emissions. For instance, the US government announced a new GHG target for the US to reduce net GHG emissions by 50%-52% below 2005 levels by 2030. These initiatives by the US government will create a favorable business environment for the tunable diode laser analyzer market players to establish their business footprints in this region.

North America Tunable Diode Laser Analyzer Market Revenue and Forecast to 2028 (US\$ Million)

North America Tunable Diode Laser Analyzer Market Segmentation

The North America tunable diode laser analyzer market is segmented based on measurement type, gas analyzer type, industry application, and country.

Based on measurement type, the North America tunable diode laser analyzer market is bifurcated into in-situ and extractive. The in-situ segment held a larger market share in 2022.

Based on gas analyzer type, the North America tunable diode laser analyzer market is segmented into oxygen analyzer, ammonia analyzer, COx analyzer, moisture analyzer, Hx analyzer, CxHx analyzer, and others. The oxygen analyzer segment dominated the market in 2022.

Based on industry application, the North America tunable diode laser analyzer market is segmented into power, oil & gas, mining & metal, chemicals, fertilizers, cement, and others. The oil & gas segment dominated the market in 2022.

Based on country, the North America tunable diode laser analyzer market is segmented into the US, Canada, and Mexico. The US dominated the market in 2022.

ABB Ltd, Axetris AG, Boreal Laser Inc, Emerson Electric Co., METTLER TOLEDO, NEO Monitors AS, Siemens AG, Teledyne Analytical Instruments, Unisearch Associates Inc, and Yokogawa Electric Corporation are among the leading companies in the North America tunable diode laser analyzer market.

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