

Global Tunable Diode Laser Analyzer (TDLA) Market Size study & Forecast, by Methodology (In-Situ, Extractive) by Gas Analyzer (Oxygen (O2) Analyzer, Ammonia (NH3) Analyzer, Cox Analyzer, Moisture (H2O) Analyzer, HX Analyzer, CxHx Analyzer, Others), by Industry (Oil and Gas, Metals and Mining, Fertilizers, Cement, Chemicals and Pharmaceuticals, Pulp and Paper, Semiconductors) and Regional Analysis, 2022-2029

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Abstracts

Global Tunable Diode Laser Analyzer (TDLA) Market is valued approximately USD 429.20 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 7.30% over the forecast period 2022-2029. Gas analyzers called tunable diode laser analyzers (TDL analyzers) use laser absorption spectrometry to determine the concentration of particular species in a gas mixture. The major driving factors for the market are increasing demand for boilers and DeNOx systems in various industries and growing number of coal-based power plant projects. Along with this, modernization and migration services are creating lucrative growth opportunity for the market over the forecast period.

The Clean Air Act was reportedly recommended for emissions limits of boilers and incinerators that burn solid waste, according to the Environmental Protection Agency (EPA), (U.S.). More than 200,000 boilers and incinerators that create harmful air pollution, including as mercury, cadmium, and particle pollution, are covered by these requirements. In the United States, there are about 1.5 million boilers. Approximately 86% of boilers in the United States burn pollution-free natural gas. However, Availability

of low-price competitive technologies is stifles market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Tunable Diode Laser Analyzer (TDLA) Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. Over the forecast period of 2022–2029, North America is anticipated to experience strong growth in the worldwide tunable diode laser analyzer market. Due to growing worries about the sustainability of the environment, regulatory organizations like the Environmental Protection Agency in the U.S. are putting into place a number of strict restrictions to reduce the emission of greenhouse gases and solid waste. Along with this, Asia-Pacific is growing with the fastest CAGR owing to due to presence of semiconductor manufacturers and presence of key market players in the region.

Major market player included in this report are:

Emerson Electric Co. (US)
Yokogawa Electric Corporation (Japan)
Servomex (Spectris) (UK)
SpectraSensors (Endress+Hauser) Switzerland)
AMETEK Inc. (US)
ABB Ltd. (Switzerland)
Mettler-Toledo International Inc. (Switzerland)
NEO monitors (Norway)
SICK AG (Germany)
Siemens AG (Germany)

Recent Developments in the Market:

Emerson introduced the Rosemount™ 4400 continuous gas analyzer in March 2019. This new hybrid device uses a quantum cascade laser (QCL) and a tunable diode laser (TDL) to measure standard components like nitric oxide (NO), sulphur dioxide (SO₂), nitrogen dioxide (NO₂), carbon dioxide (CO₂), carbon monoxide (CO), and oxygen to help plants lower ownership costs and report emissions accurately in environmental monitoring applications (O₂).

The TDLS8100 probe type tunable diode laser spectrometer was introduced by Yokogawa Electric Corporation in January 2019 as a member of its OpreX™ analyzer family. Applications in the steel, iron, and petrochemical sectors are also included. The new TDLS8100 will offer a 50% reduction in installation costs by eliminating the need for flanges and scaffolding with its integrated light launcher and detector.

Global Tunable Diode Laser Analyzer (TDLA) Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Methodology, Gas Analyzer, Industry, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Methodology offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Methodology:

In-Situ

Extractive

By Gas Analyzer:

Oxygen (O₂) Analyzer

Ammonia (NH₃) Analyzer

Cox Analyzer

Moisture (H₂O) Analyzer

HX Analyzer

CxHx Analyzer

Others

By Industry:

Oil and Gas

Metals and Mining

Fertilizers

Cement

Chemicals and Pharmaceuticals

Pulp and Paper
Semiconductors

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

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