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Airborne LIDAR: Perfect Information System in Great Use by [James Blee](#)

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There is no denying the fact that the society has undergone through a sea-change in terms of advancement in technologies. However, there has been no sharp increase in the quantity of natural resources such as oil, coal and gas. As the world witnesses a population explosion, there has been a drastic shortage of fuel sources. The good news is “these natural resources are presently found in places that has not been tapped or explored so far. This is where the use of airborne lidar technique proves to be handy; as with the help of this, it is possible to find areas where they can be traced.

It is this feature of airborne lidar technique which the petroleum industry finds very productive. These are the industries that rely immensely on geographic information systems for finding the possible fuel presence in the areas. Once the capturing of this information is attained, analyzing, managing and utilizing data becomes easier.

According to one market survey conducted by a leading aerial lidar based manufacturing company; it has thrown some interesting observation into the open. For instance, GIS services are gaining momentum and they are finding acceptance from the oil and petroleum industry. This is one technique which is appreciated for its flexible features. This is clearly evident from its use in petroleum exploration, pipeline management and managing facilities.

Experts of this industry pinpoint to one particular area where the great role of aerial lidar technique is beyond doubts. They say, when it comes to finding reserves of gas and oil, there is no substitute to this method. The use of this technique is not restricted to this area alone. Topographic mapping and vegetation are two such areas where they give the much-needed help. Traditional satellites sensors suffer from the glaring defect of presenting the survey findings only in a 2D format. This is where this technique scores the brownie point for their ability to present the data in a 3D format.

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