

Engines and Systems Market Demand, Market Growth, Market Share, Market Size Forecast to 2023

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HYDERABAD, TELANGANA, INDIA, September 14, 2018 /EINPresswire.com/ -- The limited focus on clean [energy engines](#) has made the combustion engines to remain a prominent player in the automotive industry. The emission regulation and efficiency are some of the other factors that is still driving the heavy engine industry. Engines and systems are composite sets which forms a kinetic chain by converting the heat into mechanical work. Thus, driving the engine systems to provide mechanical power to real axel through connecting shaft.

The development of new technologies in recent years has made the engines and systems liable to cope up with regulations to deliver significant benefits. But still the engines and systems faces challenges in terms of fuel efficiency, emission, durability and hybridization.

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The increase in weight of automotive parts and obsolete vehicles are alternating the fuel efficiency balance. The change in ignition time and partial combustion decreases the fuel efficiency with increase in emission. Fuel deterioration, filterability, shelf life and breakdown of fuel is also dramatically affecting the efficiency. These are accelerated by change in temperature, water contamination, microbial contamination and exposure to heat and pressure from the engine injection system.

Cummins Incorporation has unveiled a new technology which includes turbocharger components and advanced fuel system designed for high efficiency. These two components combined can offer 7-8 % improvement in fuel efficiency. The company unveiled the high performance Compact Box and Single module which can reduce the space by 60% and can attain the weight reduction by 40% thus improving the efficiency.

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Downsizing, turbocharging and advancement in combustion modes are some of the drivers in the engines and systems. Downsized engines are light in weight than conventional engines. The light weight property reduces the weight of the vehicle and improve the fuel consumption and efficiency rate. Turbochargers increases the efficiency of automobile by forcing extra compressed air into combustion chamber through turbine driven forced induction.

The increase in efficiency of internal combustion engine can be attained by Homogeneous charge compression ignition mode through homogenized air fuel mixture by auto igniting combusted fuel of previous cycle. Exhaust Gas Recirculation is another system which can enhance the efficiency of engine. Engines and systems are being enhanced through modern technology to become future

powertrain. Advanced propulsion technology such as hybrid electric vehicle, battery electric vehicle, hydrogen fuel cell electric vehicle, bio fuels, IC engine and power transmission are some of the opportunities in engines and systems. Homogeneous charge compression ignition (HCCI) is another opportunity for automobile industry to deal with the regulation in attaining the climate change norms.

The hybrid electric vehicle is the combination of internal combustion engine and electric motors. It is the alternate source of power input to engines and systems. Its objective is to increase the fuel economy, power, power electronics and efficiency that provide an extra mileage. The function of battery electric vehicle is similar to hybrid electric vehicle as it is based on electric motor for power transmission. Thus eliminating the requirement of thermal energy to drive down the systems of the vehicle.

The hydrogen fuel cell electric vehicle can be the future vehicles similar to biofuel vehicles. The fuel cell in hydrogen electric vehicle combines the hydrogen and oxygen to produce electricity which runs the motor for power transmission. The hydrogen fuel electric vehicle combines the refueling system similar to conventional vehicle and pressurized hydrogen for power generation to electric motors to attain the motion. It has the functionality of idle-off system which can shut down the vehicle when in stationary position and capture the lost energy during braking to charge the battery.

The HCCI system is the advanced system in combustion method for achieving carbon dioxide reduction and clean exhaust through auto ignition of gasoline. These opportunities in the engines and systems can drive down the impact of flue gases in environment and will provide the clean energy to drive the engine and systems.

Governments of major economies have pledged to cut down the emission generated by their respective countries during Paris agreement on climate change. Automobile sector is the next largest generator of flue gases after industries. Alternate source of energy has to be adopted to cut down the emissions. The biofuels and electric vehicles are the next generation vehicle which will hover the streets around the world in coming years.

What can you expect from the report?

The Engines and Systems Market Report is Prepared with the Main Agenda to Cover the following 20 points:

1. Market Size by Product Categories
2. Market trends
3. Manufacturer Landscape
4. Distributor Landscape
5. Pricing Analysis
6. Top 10 End user Analysis
7. Product Benchmarking
8. Product Developments
9. Mergers & Acquisition Analysis
10. Patent Analysis
11. Demand Analysis (By Revenue & Volume)
12. Country level Analysis (15+)
13. Competitor Analysis
14. Market Shares Analysis
15. Value Chain Analysis
16. Supply Chain Analysis
17. Strategic Analysis
18. Current & Future Market Landscape Analysis
19. Opportunity Analysis
20. Revenue and Volume Analysis

Frequently Asked Questions:

Q. Does IndustryARC publish country, or application based reports in Engines and Systems Market?

Response: Yes, we do have separate reports and database as mentioned below:

1. North America Engines and Systems Market (2018-2023)
2. South America Engines and Systems Market (2018-2023)
3. Europe Engines and Systems Market (2018-2023)
4. Asia Pacific Engines and Systems Market (2018-2023)
5. Middle East and Africa Engines and Systems Market (2018-2023)

Q. Does IndustryARC provide customized reports and charge additionally for limited customization?

Response: Yes, we can customize the report by extracting data from our database of reports and annual subscription databases. We can provide the following free customization

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2. Increase the number of countries in geography or product chapter.
3. Find out market shares for other smaller companies or companies which are of interest to you.
4. Company profiles can be requested based on your interest.
5. Patent analysis, pricing, product analysis, product benchmarking, value and supply chain analysis can be requested for a country or end use segment.

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