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## Direct Methanol Fuel Cell Market to Grow at 40.47% CAGR to 2020 Driven by High Energy Density

A direct methanol fuel cell market analyst says advances in technology have boosted the growth and use of DMFCs in different electronics devices. For instance, the use of DMFC in combination with batteries in forklifts extends the working time, reduces the operating cost, and also reduces the greenhouse gas emissions. Oorja Model 3, when used in a MHE, reduces the dependency on grid power and the CO<sub>2</sub> emissions by 66%. These technological advancements can find solutions and help address the technical limitations of DMFCs.

**Complete report on direct methanol fuel cell market spread across 53 pages, analyzing 4 major companies and provides 37 data exhibits is now available at**

<http://www.reportsnreports.com/reports/495279-global-direct-methanol-fuel-cell-market-2016-2020.html>.

The analysts forecast global DMFC market to grow at a CAGR of 40.47% during the period 2016-2020. According to the report, Energy density is defined as the amount of energy stored in a device for a certain period of time. One of the main advantages of DMFCs is that they use the high energy density methanol as fuel. It burns slower than gasoline, producing energy for a longer period of time. Thus, DMFCs are the ideal choice for small vehicles such as tuggers and forklifts. DMFCs are also best suited for portable power usage in consumer electronic goods such as mobile phones, PCs, cameras, and laptops.

During 2015, the EMEA region dominated the market, accounting for more than 40% of the market share. The demand for clean and reliable power sources, coupled with the growing investments in DMFCs, is contributing to the growth of the DMFC market in EMEA. Significant resources are being allocated for the R&D of clean technologies such as DMFC for use in stationary power and in vehicles. The Fuel Cells and Hydrogen Joint Undertaking (FCH-JU) that falls under the Horizon 2020, Europe's

flagship research program, has funded several projects for the development of larger capacity DMFC to be used in the telecom sector and in new materials that would increase the durability of DMFC.

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<http://www.reportsnreports.com/Purchase.aspx?name=495279>

The global DMFC market has few vendors. They work on various segments in developing DMFC products for stationary and portable power. There are also some firms that are highly specialized and provide expertise in proprietary technology.

The key players in the Global Direct Methanol Fuel Cell Market are DMFCC, Hitachi, **Oorja Protonics** and SFC Energy.

Other Prominent Vendors in the market are: Enocell, FuelCellsEtc and Neah Power Systems.

Further, the report states that DMFCs have many technical limitations. The major limitation is the high methanol crossover rate through the polymer electrolyte membrane. Even a small amount of methanol crossing over to the cathode results in a rise of CO<sub>2</sub> produced, affecting the performance of DMFC.

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