



## **POWERTRAIN FORECASTING AND RESEARCH**

### **► DRIVING AUTOMOTIVE INTELLIGENCE**

IHS Global Insight's Powertrain Forecasting and Research service provides a worldwide accounting of car and light commercial vehicle production, disaggregated to show engine and transmission detail, with both historical statistics and forecasts up to ten years out. It facilitates analysis of vehicle production by platform, model, engine, and transmission variant. With its access to many powertrain attributes, it can also assist in monitoring supply chain relationships, critical to a successful market and product strategy. IHS Global Insight's Powertrain Forecasting and Research service offers the most extensive geographic coverage on engine and transmission details available in the market.

### **► STANDARD SIX-YEAR POWERTRAIN FORECASTING SERVICE**

The powertrain database identifies technological features, material, and supplier information. Our Powertrain Forecasting Team continually monitors and analyzes technological change driven by innovation from the industry players, regulations laid down by legislators, increasingly stringent environmental standards, as well as the need to satisfy the demands of an increasingly consumer-centric market. To this, we apply our analytical models to forecast six-year growth trends for product features and equipment. The forecasts and other content are updated regularly through original research. The data is supplemented by clear and concise analysis of current and future engine and transmission assumptions by OEM, with related commentary by senior automotive analysts.

The Powertrain Forecasting and Research service has been continuously developed with the aim to provide insights into:

- How diesel vehicle penetration is projected to develop in different regions, markets, and segments
- How engine technologies are likely to evolve in future years
- How consumers are expected to respond to the introduction of hybrid vehicles and other alternative-power-sourced vehicles in different markets
- What powertrain strategies different vehicle manufacturers are likely to adopt to meet more stringent fuel consumption and CO<sub>2</sub> emission regulations
- Where and what kind of opportunities exist for powertrain component and system suppliers

### **► 10-YEAR POWERTRAIN FORECAST UPGRADE SERVICE**

With volatility in oil prices and an increased focus on environmental issues, anticipating and understanding how powertrain long-term trends are going to develop over the coming years in individual markets has become an increasingly complex task. To better support our clients in their assessments of alternative future powertrain strategies, IHS Global Insight has developed the first 10-year global powertrain production forecasting service in the industry. The 10-year forecast brings relevant issues into context and will also help clients by providing the required time perspective for their strategic planning.

This service, which is offered as an upgrade option to the standard six-year powertrain forecast, also covers all light vehicle manufacturers' production across 52 countries and features 10-year engine cycle charts for most major light vehicle manufacturers. The forecasts are updated quarterly, semi-annually, or annually, depending on the client's requirements. Client customized deliveries can also be accommodated.



## 15-Year Engine Cycle Charts

IHS GLOBAL INSIGHT		GM EUROPE		CHEVROLET SATURN																		
GM Europe Engine Installation Programme: Diesel																						
Engine Manf.	Eng Model	CC	Fuel Type	Config/ Valves	Torque Nm	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	MODEL	
FIAT-GM JV	SDE	1251	DI	L44	180-200	70 HP			7500HP	7500HP												AGILA, ASTRA, AVEO, COMBO, CORSA, LACETTI, MERIVA, TIGRA TT
ISUZU	CIRCLE L	1686	DI	L44	130-280					125HP												CORSA, ASTRA, COMBO, VECTRA, MERIVA, SIGNUM, ZAFIRA
RENAULT	F9	1870	DI	L42	170-240																	VIVARO, MOVANO
FIAT PTT & GM PT	FAM B DIESEL	1910	DI	L44	270-450	140HP	150HP		175HP	180HP Twin Turbo												ASTRA, VECTRA, ZAFIRA, 9-3, 9-5, SIGNUM, MERIVA
GM POWER-TRAIN	FAM B DIESEL	1970	DI	L44	300-450							150/160/180HP										ASTRA, VECTRA, ZAFIRA, 9-1, 9-3, 9-5, SIGNUM, MERIVA
GMDAT	RA420	1991	DI	L44	310					150HP												CAPTIVA (Russia)
RENAULT	M1D	1995	DI	L44	220/226																	VIVARO
GM POWER-TRAIN	DI-2	1995	DI	L44	185-230																	ASTRA, VECTRA, ZAFIRA
GM POWER-TRAIN	DI-2	2171/2188	DI	L44	250-280																	FRONTERA, OMEGA, ASTRA, 9-3, 9-5, ZAFIRA, VECTRA
FIAT PTT	FAM C DIESEL	2387	DI	L54	400-450							200/230HP										MOVANO, SIGNUM SPORT, VECTRA
RENAULT	GRU	2463	DI	L42	260-310																	VIVARO, MOVANO
NISSAN	ZD30	2953	DI	L44	260																	MOVANO
NISSAN	ZD25	2488	DI	L44	400																	MOVANO

Our powertrain forecast data can be accessed via AutoInsight Data, IHS Global Insight's Web-based global automotive data retrieval software. Supplementary commentary and rationale, together with clear and comprehensive engine product cycles, are also available in *MyInsight*, IHS Global Insight's client-access Web site.

For clients specifically interested in future CO<sub>2</sub> emissions at the vehicle model level, IHS Global Insight also has a separate CO<sub>2</sub> Forecasting Service, covering light vehicles produced in Europe.

For clients interested in a further extended long-term outlook, IHS Global Insight also offers multi-client studies on both light vehicle and heavy-duty vehicle future powertrain technologies, providing share projections by major region for alternative powertrain technologies (e.g. core engines, fuel type, hybrids, and core transmissions) out to 2025 (light vehicles) and 2020 (heavy duty), respectively.

### THE POWER OF PERSPECTIVE

**ABOUT IHS GLOBAL INSIGHT:** IHS Global Insight ([www.ihsglobalinsight.com](http://www.ihsglobalinsight.com)) provides the most comprehensive economic and financial information available on countries, regions, and industries available from any source. IHS Global Insight's immediate and insightful analysis of market conditions and key events enables innovative and successful decision making for clients around the world. IHS Global Insight employs approximately 700 employees in 13 countries.

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