

Emissions and Fuel Specs Challenges

- Diesel Sulfur Level

	2003	2004	2005	2006	2007	2008	2009	2010
Europe	Euro III		Euro IV		Euro V		Euro V	
USA	US 02	US 04	Euro IV		US 07	US 10		US 10
Japan	JPN	JPN New Short Term		JPN New Long Term		Post NLT?		Post NLT?
China	Long TePhase-in	Euro II		Euro III ?		Euro IV?		Euro IV?
	Nationwide	Euro II		Euro III ?		Euro IV??		Euro IV??
	Beijing	Euro III		Euro III?		Euro IV??		Euro IV??
Indonesia	Shanghai	Euro II		Euro III?		Euro IV??		Euro IV??
	?	Euro II		Euro III		Euro IV??		Euro IV??
Malaysia	Euro I	Euro II		Euro III		Euro IV??		Euro IV??
Thailand	Euro II	Euro III		Euro IV??		Euro V??		Euro V??

* Estimated

Motor fuels specifications

in ppm	Sulfur			
	2003	2005	2007	2010
Gasoline	800	500	350	50
Diesel	2,000	500	350	50

Source: PFC Energy from SEPA

* Note that motor fuels specifications are more stringent in major cities. Beijing, for example, is enforcing 350 ppm gasoline and 350 ppm diesel in 2005.

Color	Fuel S level
Yellow	> 500 ppm
Blue	< 500 ppm
Pink	< 50 ppm