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Air pollution. Internal combustion engines such as reciprocating internal combustion engines produce air pollution emissions, due to incomplete combustion of carbonaceous fuel. The main derivatives of the process are carbon dioxide CO<sub>2</sub>, water and some soot—also called particulate matter

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(PM). The effects of inhaling particulate matter have been studied in humans and animals and include asthma, lung cancer, cardiovascular issues, and premature death.

### **Internal combustion engine - Wikipedia**

Internal Combustion Engines and Air

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## **Controlling Air Pollution from Stationary Engines | US EPA**

The main pollutants contributed by I.C. engines are CO, NOX unburned hydrocarbons (HC) and other particulate emissions. Other sources such as Electric power stations industrial and

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domestic fuel consumers also add pollution like NOX, SO2 and particulate matters.

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## **Internal Combustion Engines ...**

Internal Combustion Engines & Air Pollution, 3rd Edition; Hardcover - January 1, 1973 by Obert, Edward F., (Author)

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Combustion Engine in the Urban Environment. Created Dec 4, 2006 | Updated Dec 7, 2008. 2 Conversations. The first four-stroke internal combustion engine was built by Nikolaus August Otto in May 1876. Otto's design was based partly on an earlier gas engine invented by Etienne Lenoir.

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## **Atmospheric Pollution from the Internal Combustion Engine ...**

How Engine Pollution Harms the Environment and Health. Carbon monoxide, nitrogen oxides, and hydrocarbons are released when fuel burns in an internal combustion engine. They may also be released when vehicle tailpipes emit air and fuel residuals.

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Gasoline vapors also escape into the atmosphere during refueling and when fuel vaporizes from engines and fuel systems caused by vehicle operation or hot weather.

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Don't Idle. Unnecessary idling of cars,



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trucks, and school buses pollutes the air, wastes fuel, and causes excess engine wear. Modern vehicles do not require “warming up” in the winter, so there is no need to turn on the engine until you are ready to drive.

### **What You Can Do to Reduce Pollution from Vehicles and Engines**

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blow by fumes, it is due to leakage of heating oil and burning fuel from combustion space to the crankcase through piston rings. • Due to wall quenching effect, air-fuel mixture is trapped in the piston rings and not able to burn called raw HC.

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## **SlideShare**

This handbook is an important and valuable source for engineers and researchers in the area of internal combustion engines pollution control. It provides an excellent updated review of available knowledge in this field and furnishes essential and useful information on air pollution constituents,

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mechanisms of formation, control technologies, effects of engine design, effects of operation conditions, and effects of fuel formulation and additives.

## **Handbook of Air Pollution from Internal Combustion Engines ...**

Exhaust gas or flue gas is emitted as a result of the combustion of fuels such as

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natural gas, gasoline, petrol, biodiesel blends, diesel fuel, fuel oil, or coal. According to the type of engine, it is discharged into the atmosphere through an exhaust pipe, flue gas stack, or propelling nozzle. It often disperses downwind in a pattern called an exhaust plume. It is a major component of motor vehicle emissions, which can also

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include: Crankcase blow-by Evaporation of unused gasoline Motor vehicle

## **Exhaust gas - Wikipedia**

Lecture\_12 Internal Combustion Engine and Air Pollution-2 - Duration: 50:25.  
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## **Lecture\_11 Internal Combustion Engine and Air Pollution-1**

Prime (Non-Emergency) Engines Internal combustion (IC) engines emit air contaminants including oxides of nitrogen, carbon monoxide, volatile organic compounds, oxides of sulfur, particulate matter and toxic air



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contaminants. Engines operated at stationary sources with brake-horsepower ratings of 50 bhp or greater require a permit to operate.

### **IC Engine - SanDiegoCounty.gov**

Imperial County Air Pollution Control  
District Rule 400.3 400.3-3 E.1.c Record  
of routine engine(s) maintenance,

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including date(s) and type of maintenance performed. E.1.d A specific emission inspection procedure to assure that the engine is operated in continual compliance with the provisions of this Rule.

### **Imperial County Air Pollution Control District Rule 400.3 ...**

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The fuel and air mixture is commonly premixed in a carburetor. Figure 4.2 shows how engine power and fuel consumption depend on equivalence ratio over the range commonly used in internal combustion engines. Ratios below 0.7 and above 1.4 generally are not combustible on the time scales available in reciprocating engines. The

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