

## CPPI Member Performance

Current Data is 2008

“Petroleum refining is one of Canada’s critical infrastructure industries necessary to ensure a reliable supply of energy”. Environment Canada 2007

### **Refineries and climate Change: From 1990 to 2008:**

Total CO2 emissions from refineries are down 12%  
Total energy consumption is down 8.5% in the refineries  
Energy efficiency has improved by 9%

Refinery throughput has increased by 10% since 1992

### **Refineries and air quality:**

Sulphur (SOx) emissions are down 42% since 1998  
Volatile Organic Compound (VOC) emissions are down 64% since 1998  
Nitrogen oxides (NOx) emissions are down 5% since 1998  
Carbon monoxide (CO) fluctuates a lot (up and down by ½ in the last 5 years)  
Benzene emissions, a carcinogen, are down 84% since 1993  
Total reportable releases of government designated substances are down 41% since 1993

### **Environmental investments:**

In the past 10 years, CPPI members have invested \$7.9B in total environmental expenditures. On our website, it currently says that the refining industry spent \$5 billion to reduce sulphur levels in gasoline and diesel.

### **Refineries and Marketing - Personal Safety:**

Total recordable injuries for total employees (excluding contractors) are down 55% since 1993. Lost time injuries for total employees (excluding contractors) are down 68% since 1993.

### **Product Quality and Environmental Performance:**

Sulphur levels in gasoline have been reduced by over 90% since 2000. (still true)  
Sulphur levels in diesel fuel have been reduced by 85% since 2005. (there will be an update coming soon regarding this data)

\*\*Ultra low sulphur fuels enable drivers to improve their tailpipe emission systems such that between 2005 and 2030, despite a 90% increase in light duty vehicle and 40% increase in heavy duty truck kilometers travelled, Environment Canada forecasts tailpipe emissions of  
sulphur oxides (SOx) will decrease by 50%,  
volatile organic compounds (VOC) will decrease by 50%,  
nitrogen oxides (NOx) will decrease by 79%,  
particulate matter (PM) will decrease by 65% and  
by using cleaner fuel in modern vehicles. These substances are direct contributors to smog formation.\*\*

\*\*There is not any more recent data available from Environment Canada\*\*