



**Clearing-House for the  
Partnership for Clean Fuels and Vehicles**  
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## **Programme of Work of the PCFV Clearing House for 2006 & 2007**

### **PCFV Focus Area I: Phase-out of Leaded Gasoline**

In 2006 the Clearing House plans to launch a global campaign to eliminate leaded petrol worldwide by the end of 2008. Following the successful approach used in Sub Saharan Africa, the campaign will include regional workshops - in areas where several countries are still leaded and no regional workshops have been held to date - and will provide support to efforts at the national level to phase out leaded petrol. The campaign will also have a media and awareness raising component, including to inform important forums and partners about the existence of the campaign (for example at the 14<sup>th</sup> Session of the Commission for Sustainable Development).

As of 1 January 2006, the following countries are still leaded:

- Venezuela (to phase-out leaded gasoline by early 2006)
- Cuba (no known plans for phase-out)
- Bosnia & Herzegovina (phase-out deadline 2010)
- FYR Macedonia (plans to phase-out in 2006)
- Serbia & Montenegro (phase-out deadline 2020)
- Afghanistan (no known plans)
- Bhutan (no known plans)
- Cambodia (no known plans)
- Laos Republic (no known plans)
- Mongolia (no known plans)
- Myanmar (no known plans)
- North Korea (no known plans)
- Pacific Islands (including Micronesia) (no known plans)
- Kazakhstan (no known plans)
- Tajikistan (no known plans)
- Turkmenistan (no known plans)
- Uzbekistan (no known plans)
- Indonesia (planned for early 2006)
- Iraq (no known plans)
- Jordan (plans to introduce unleaded gasoline in 2008)
- Palestine (no known plans)
- Syria (plans to phase-out before 2007)
- Yemen (start phase-out process in 2006, date to be set in workshop in 2006)
- Morocco (plans to phase out leaded gasoline started in 2003)
- Tunisia (plans to phase out leaded gasoline started in 2003)
- Algeria (no known plans for phase-out)
- Qatar (plans to phase-out gasoline started in 2001)

#### **Objective:**

To promote and support the phase-out of leaded petrol globally by end of 2008.

#### **Activities in 2006 & 2007:**

#### ***Latin America and the Caribbean***

##### *2006*

- Support **Venezuela** in ongoing phase-out (if applicable – phase-out date to be determined)



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- Consult with **Cuba** on setting a date (and support if necessary)

### ***Central and Eastern Europe***

#### *2006*

- Consultation with **Bosnia & Herzegovina** and **Serbia & Montenegro** on possibilities for support to move the deadline forward to latest 2008 (current deadline 2010 and 2020 respectively)
- Support to **FYR Macedonia** and **Turkey** for proposed 2006 phase-out

#### *2007*

- Continued support to **Bosnia & Herzegovina** and **Serbia & Montenegro**

### ***Asia & Pacific***

#### *2006*

- Support to **Afghanistan** with phase-out of leaded gasoline (follow-up discussions with Afghan Ministry of Environment)
- Support to **Cambodia** with phase-out of leaded gasoline (follow-up to contacts with Petroleum Authority)
- Support **Laos, Bhutan and North Korea** with the phase-out of leaded gasoline
- Continued Support of **Indonesia's** campaign to phase-out leaded gasoline by early 2006
- Support a **Sub-Regional workshop on clean fuels and vehicles for CIS-Asian countries** to promote leaded gasoline phase out. Focus countries: Afghanistan, Kazakhstan, Mongolia, Tajikistan, Turkmenistan, and Uzbekistan

#### *2007*

- Continued support to **Afghanistan, Bhutan, Cambodia, Laos and North Korea** with their efforts to go unleaded
- Follow-up to the 2006 Sub-regional workshop at the **national level** - support to selected CIS-Asian countries
- Regional-level consultation with the **Pacific**, specifically the South Pacific Regional Environment Programme (SPREP) to promote and support leaded gasoline phase-out at the regional/ national-level in the various islands

### ***Middle East and West Asia (incl. North Africa)***

#### *2006*

- Support a **Regional Workshop for Middle East, North Africa and West Asia** on lead phase-out and clean fuels in Manama, Bahrain (March/ April 2006)
- Support to national-level workshop and activities in **Yemen** (based on a memorandum of understanding with the Yemen Environment Protection Authority)
- Support to the implementation of the regional workshop at the national level, in specific **Syria, Jordan, Palestine, Morocco, Tunisia, and Algeria**

#### *2007*

- Continued support to **Syria, Jordan, Palestine, Morocco, Tunisia, and Algeria**



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## PCFV Focus Area II: Reduction of Sulphur Levels in Fuels

The Clearing House wants to increase its activities to promote and support the reduction of sulphur levels in fuels. We are hopeful that a PCFV Sulphur Document will be ready to support this work. The Clearing House will use a regional or sub-regional approach to reducing sulphur, given the big differences in the regions. In some regions we are planning to organise regional and/or sub-regional workshops to facilitate the countries to agree on the levels they would like to aim at.

**Objective:** To promote and support the reduction of sulphur levels in fuels. The ultimate goal is to reduce sulphur levels to 50 ppm or below. As the (sub)regions differ, the Clearing House will use region and national specific objectives, roadmaps and timelines - see the objectives per region below.

Roadmaps and timelines

### *Sub Saharan Africa*

**Objective:**

Promote and support the reduction of sulphur levels in fuels to 500 ppm or below by 2011. Some countries, especially those at 10,000 ppm or higher, could choose to set intermediate objectives like 5000 ppm or 2000 ppm. Promote and support the introduction 50 ppm in some countries in the subregion within the next few years.

**Activities:**

*2006*

- Support to a **regional workshop** for countries with refining capability in Sub-Saharan Africa (SSA) to develop targets for sulphur reduction
- Organise at least one **sub-regional workshop** on sulphur reduction in fuels
- Support national-level consultations and/or activities to develop strategies on sulphur reduction in fuels in at least **5 countries**
- Support for ongoing sulphur reduction efforts in **South Africa** and adoption of the South African standards by other **Southern African countries**
- Support for the **decommission of lead facilities** in SSA countries that have phased out leaded gasoline.

*2007*

- Continued national level consultation/activities to reduce sulphur levels in at least **5 countries**
- Support for ongoing sulphur reduction efforts in **South Africa** and adoption of the standards by other **Southern African countries**

### *Central and Eastern Europe*

**Objective**

A. Promote and support countries to reduce sulphur in fuels to  $\leq 500$  ppm by end 2008

B. Some countries, especially those at higher levels, may choose to set intermediate objectives and might reach the 500 ppm objective later than 2008, for example Bosnia & Herzegovina, Belarus, Moldova, Serbia & Montenegro, Russian Federation, Ukraine

**Activities:**



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*2006*

- Support sulphur reduction in **Albania, FYR of Macedonia, Serbia and Montenegro**
- Support the implementation of planned reductions to 50 ppm by 2007 and 10 ppm by 2009 in **Bulgaria, Croatia, Romania and Turkey**
- Development of contacts for sulphur reduction strategies with Western CIS Countries **Belarus, Moldova, Russian Federation, and Ukraine**, in preparation of sub-regional meeting in 2007.

*2007*

- Support the organisation of a regional sulphur meeting for all **CIS Countries** (Belarus, Moldova, Russian Federation, Ukraine to include Central Asian countries - see below)
- Follow up with national-level activities and support for **Western CIS countries**
- Ongoing support at the national level for **CEE & Turkey**

### ***Asia & Pacific***

#### **Objective:**

To promote and support the reduction of sulphur levels in fuels in Asia-Pacific countries - levels to be agreed upon in consultation with specific countries. Countries will be encouraged to adopt fuel sulphur level objectives of 500 ppm and below by 2010. Promote and support the introduction 50 ppm in some countries in the subregion within the next few years.

#### **Activities:**

*2006*

- **Support a sub-regional workshop for CIS countries and others including: Afghanistan, Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Mongolia, Tajikistan, Turkmenistan, and Uzbekistan** (all countries are presently at 5,000 ppm with the exception of Afghanistan which is at 10,000 ppm) + Western CIS countries (see above)

*2007*

- Follow-up with national level activities and support to CIS-Asian countries

### ***Latin America and the Caribbean***

#### **Objective:**

Reduction of sulphur in fuels to 500 ppm and below by 2010. Promote and support the introduction 50 ppm in some countries and/or cities in the subregion within the next few years.

*2006*

- Support to the implementation of **existing national objectives**, including Argentina (50 ppm in 2009), Brazil (500 ppm in 2009, 50 ppm metropolitan by 2009), Chile (350 ppm by 2006), Colombia (500 ppm by 2008), Costa Rica (500 ppm by 2008), Mexico (15 ppm at the border are 2006, nation wide 2007), Peru (50 ppm by 2010)
- Support national **follow up activities of the 2005 Mexico City regional workshop**
- Development of contacts for sulphur reduction strategies with **Caribbean countries**
- Support to a **regional workshop for South America** focusing on sulphur reduction, development of a regional strategy (CORPAIRE, Ecuador has offered to host this meeting)



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- One day **environment and vehicles issues workshop** during annual meeting of **Central/South America automobile clubs**, hosted by the Brazilian Automobile Associate, Sao Paulo, Brazil (with FIA Foundation)

*2007*

- Support for **national activities in Central America**
- **Follow up to South America sulphur workshop** with national-level support and activities
- Support to a sub-regional workshop for **Caribbean** states (to be confirmed)

### ***Middle East, West Asia and North Africa***

#### **Objective:**

To promote and support the reduction of fuel sulphur levels - objectives to be developed in a regional workshop early 2006.

*2006*

- Support for a regional workshop for **Middle East, North Africa and West Asia** on reduction of sulphur levels in fuels. Levels of sulphur reduction will be agreed upon in the workshop - 19 countries will be involved
- Support to **follow-up activities** at the national level which can include the following countries: **Syria, Bahrain, Kuwait**
- Support to sulphur reduction in **Morocco**

*2007*

- Support **Yemen** and **Iran** to reduce sulphur levels (presently at 10,000 ppm)
- Support to sulphur reduction in **Morocco and other North African countries**



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## **PCFV Focus Area III: Promotion of Cleaner Vehicles and Vehicles Technologies**

The Clearing House wants to expand its activities on promotion of cleaner vehicles, especially where unleaded gasoline and/or low sulphur diesel/ ultra low sulphur diesel fuels have been introduced.

### **Objective:**

To support countries in developing policies that make catalytic converters mandatory on locally produced and imported vehicles (new and second) by 2007; to support vehicles emissions monitoring and inspection and maintenance programs; and support the introduction of cleaner vehicles/ cleaner vehicles technologies, including heavy diesel retrofit projects, promotion of cleaner diesel vehicles, after treatment technologies, and cleaner petrol vehicles.

### ***Sub Saharan Africa***

#### **Activities:**

##### *2006*

- Support **national-level activities** to promote vehicles with catalytic converters in at least 10 countries, including development of regulations
- Support a **demonstration project** on clean transportation in at least one country
- Support the development of a **report for retrofit opportunities** in the region

##### *2007*

- Support to **national-level consultations and/or activities** to promote vehicles with catalytic converters in remaining countries, including regulations
- To promote vehicle emission monitoring in **at least one country** in the region
- Follow up on implementation of **the clean transportation project**

### ***Central and Eastern Europe***

##### *2006*

- Support selected **national level activities** to promote vehicles with catalytic converters (possible candidates: **Albania, FYR Macedonia, Serbia & Montenegro, Turkey** – if gone unleaded)
- Support for retirement of old diesel cars (**Albania, Turkey**)
- Planning and launch of one retrofit pilot **in CEE**

##### *2007*

- Continued support for increased use of catalyst-equipped vehicles in **CEE & Turkey**
- Continuation of 2006 **retrofit project**, workshop to discuss outcomes and encourage replication (based on results)
- Planning and launch of **1 additional retrofit pilot in CEE**



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## ***Asia & Pacific***

### *2006 & 2007*

- Retrofit or green vehicle project in **China**. Exact nature to be determined
- Support a project on the introduction of catalytic converters in **Indonesia**

## ***Latin America and the Caribbean***

### *2006*

- Support incorporation of catalytic converter discussions, diesel emissions technology into **South America workshop**, automobile clubs event in Brazil, Caribbean sub-regional event
- Support at **national level** for catalytic converter requirements
- **Santiago, Chile retrofit project** with CONAMA and workshop in December, 2006
- Support to **Quito, Ecuador, retrofit project**

### *2007*

- Continued support at **national level** for catalytic converter requirements
- Continuation and finalization of ongoing **retrofit projects**
- Planning of **additional retrofit(s) in LAC**

## ***Global***

- The Clearing-House will develop a **diesel bus retrofit guidance document**, combining information on case studies, costs, and lessons learnt.