

Opportunity For A Global Mobile Air Conditioning Partnership For Climate Protection

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EPA Congratulates Mobile AC

- Voluntary CFC Recycling Under Warranty
 - Jim Baker, Simon Oulouhojian, Ward Atkinson
 - Mobile Air Conditioning Society Genius
 - Underwriters Laboratory Certification
 - SAE Standards & Globalization
- 1994/5 CFC Global Phaseout
 - Nissan, Mercedes, Volvo Leadership
 - Technology Cooperation & SAE Standards
 - MACS Problem Tracking & Problem Solving

Phoenix Workshops

- Fierce Competitors Cooperate for Climate
- Critical Mass of World's Best Engineers
- Collaborative, Innovative, & Interactive
- Building on Ozone Layer Reputation
- Earning Government & Public Confidence
- Setting the Stage--Technically Based Policy

Emerging Industry Perspective on Climate Protection

- Accepting Scientific Climate Consensus
- Supporting Climate Protection
- Responding to Market Opportunities
- Cautiously Technically Optimistic
- Seeking Common Sense Solutions

Climate Protection Will Transform Markets

- Europe Demanding Fuel Efficiency
- Japan Expects Every Sector to Reduce Emissions
- USA Favoring Flexibility and Incentives
- Leadership Companies Stepping Out

New Automobile Industry Vision

- The Future Demands Green Cars
- Customers Choose Green Cars When Available, Affordable, & Comparable
- OEMs Racing For Technical Prowess and Environmental Recognition & Compliance
- Greener Cars, Greener Factories, Greener Planet

Manufacturing, Marketing, Infrastructure and Regulation

- Joint Marketing, Shared Platforms
- Common Components/Assemblies
- Mergers, Joint Ventures & Partnerships
- Shared Infrastructure
 - Electric fueling, low-sulfur direct injection
 - Smart Highways, Satellite Navigation
- Global Regulatory Harmony

Electric, Hybrid, Fuel-Cell Vehicle Challenge

- Require Ultra-High Efficiency AC & Heat
- Electric Capacity Allows Hermetic Systems
- Engineering for “Apparent Comfort”

MAC History Can Repeat Itself

- Voluntary CFC-12 Recycling Standard
- Accelerated CFC-12 Phaseout World-Wide
- HFC-134a Recycling
- Retrofit Advice to Customers
- Regulation Complements Industry Strategy
- Anticipate & Satisfy Climate Protection

Global Mobile Air Conditioning Partnership For Climate Protection

- Mission
 - “Encourage and Accelerate Ultra-High Efficiency Vehicle Air Conditioning”
- Partners
 - OEMs, SAE, Service, and EPA
- Connections
 - Montreal & Kyoto Protocols
 - Government and Environmental Organizations

Possible EPA Contributions

- Co-Chair Working Group
- Support Performance-Based Evaluation
- Communicate Challenges & Progress
- Integrate Findings in UN Assessments
- Clear Barriers, Complement Initiatives
- Reward Leadership

Advantages Of Cooperation

- Cross-Fertilized Engineering
- Motivated Suppliers
- Out-of-the-Box Thinking
- Technology-Based Solutions
- Grateful Customers
- Satisfied Regulators