Clear the air!
Your gas station can cut smog-causing **VOC fumes**, and we can help with grant funding and technical assistance.

**Example: Stage 1 Vapor Recovery**

Stage I vapor recovery captures vapors, known as volatile organic compounds (VOCs), released when gas is put into the underground storage tank. The vapors are returned to the truck instead of being released into the air. There are two kinds of Stage I systems: **Single Point** (coaxial) and **Dual Point**.

**Benefits:**
- Limits the escape of VOCs that contribute to air pollution
- Improves employee and customer health
- Positive publicity for your business

**Single Point (Coaxial) systems** have one tank opening that transfers both fuel and vapors. This is usually accomplished by installing a 3-inch diameter drop tube inside the 4-inch fill pipe, creating a gap between the drop tube and the fill pipe that vapors can pass through.

**Dual Point systems** use two separate tank openings for delivery and vapor recovery. The first is the fill-port drop tube where a hose from the tanker transfers fuel to the storage tank. The vapor recovery port is called a “dry break” (commonly painted orange) and it consists of a riser and a spring-loaded poppet valve. During fuel delivery, a vapor recovery device is attached to the dry break which automatically opens the poppet valve. The vapor return hose routes the vapors from the tank through the dry break and back to the tanker.
Other vapor reduction options

Dripless nozzles
- Can reduce drips or spillage up to 60%

Low-permeability hoses at the pump
- Similar cost to other gasoline dispensing hoses
- Potential to reduce emissions at the hose up to 96%

Equipment needed
- Coaxial drop tube or a fill-pipe drop tube (for two-point systems) extending within 6” of the bottom of each tank to ensure that the drop tube opening is submerged when the tank is filled
- Tightly fitting fill cap on each fill pipe
- For two-point systems, a properly functioning dry break (poppet valve) that seals the vapor return line when not in use
- Pressure/vacuum valves on the tank vent lines to prevent emission of gasoline vapors from the tank

Financial help available!

$320,000 in grant funding
is available for small businesses to reduce their VOCs.

Maximum grant award: $100,000
Minimum match: 10%

Eligibility: Independently owned and operated businesses with 100 or fewer full-time employees.

Eligible costs: A wide variety of eligible costs will be considered. The eligible cost must in some way directly or indirectly reduce VOC emissions.

Closing date: August 13, 2014

Let’s avoid tougher EPA regulations
As federal mandates become more rigorous, Minnesota is at risk of not meeting air quality standards. Such “non-attainment” status would trigger costly new regulations for everyone. Reducing VOC pollution voluntarily before that happens will help Minnesota’s bottomline.

For more information
To see the Request for Proposal, more information on the project, or what other businesses have done to reduce VOCs, contact:

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