

ALCOHOL CAN BE A GAS!

THE TWO-MINUTE SUMMARY

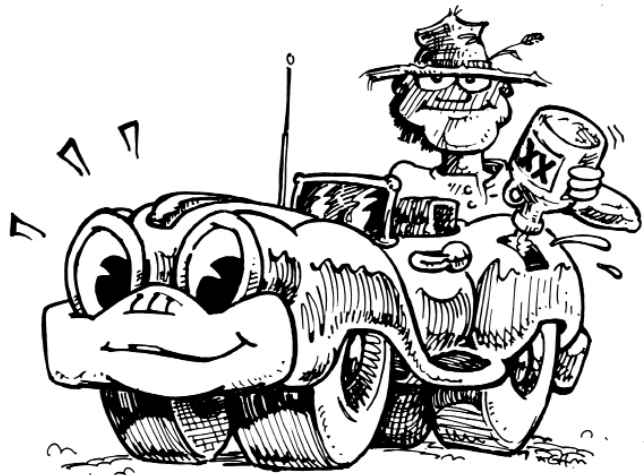
1. With alcohol fuel, almost every country can become energy-independent. Anywhere that has sunlight and land can produce alcohol from plants. Brazil, the fifth largest country in the world, imports no oil, since half its cars run on alcohol fuel made from sugarcane, grown on 1% of its land.

2. We can reverse global warming. Since alcohol is made from plants, its production takes carbon dioxide out of the air, sequestering it, with the result that it reverses the greenhouse effect (while potentially vastly improving the soil). Recent studies show that in a permaculturally designed mixed-crop alcohol fuel production system, the amount of greenhouse gases removed from the atmosphere by plants—and then exuded by plant roots into the soil as sugar—can be 13 times what is emitted by processing the crops and burning the alcohol in our cars.

3. We can revitalize the economy instead of suffering through Peak Oil. Oil is running out, and what we replace it with will make a big difference in our environment and economy. Alcohol fuel production and use is clean and environmentally sustainable, and will revitalize families, farms, towns, cities, industries, as well as the environment. A national switch to alcohol fuel would provide many millions of new permanent jobs.

4. No new technological breakthroughs are needed. We can make alcohol fuel out of what we have, where we are. Alcohol fuel can efficiently be made out of many things, from waste products like stale donuts, grass clippings, food processing waste—even ocean kelp. Many crops produce many times more alcohol per acre than corn, using arid, marshy, or even marginal land in addition to farmland. Just our lawn clippings could replace a third of the auto fuel we get from the Mideast.

WITH ALCOHOL FUEL, YOU CAN BECOME ENERGY-INDEPENDENT, REVERSE GLOBAL WARMING, AND SURVIVE PEAK OIL IN STYLE. ALCOHOL FUEL IS “LIQUID SUNSHINE” AND CAN’T BE CONTROLLED BY TRANSNATIONAL CORPORATIONS. YOU CAN PRODUCE ALCOHOL FROM A WIDE VARIETY OF PLANTS AND WASTE PRODUCTS, FROM ALGAE TO STALE DONUTS. IT’S A MUCH BETTER FUEL THAN GASOLINE, AND YOU CAN USE IT IN YOUR CAR, RIGHT NOW. YOU CAN EVEN USE ALCOHOL TO GENERATE YOUR ELECTRICITY. ALCOHOL FUEL PRODUCTION IS ECOLOGICALLY SUSTAINABLE, REVITALIZES FARMS AND COMMUNITIES, AND CREATES HUGE NEW OPPORTUNITIES FOR SMALL-SCALE BUSINESSES. ITS BYPRODUCTS ARE CLEAN AND VALUABLE. ALCOHOL HAS A PROUD HISTORY AND A VITAL FUTURE.



5. Unlike hydrogen fuel cells, we can easily use alcohol fuel in the vehicles we already own. Unmodified cars can run on 50% alcohol, and converting to 100% alcohol or flexible-fueling (both alcohol and gas) costs only a few hundred dollars. Most auto companies already sell new dual-fuel vehicles.

6. Alcohol is a superior fuel to gasoline! It's 105 octane, burns much cooler with less vibration, is less flammable in case of accident, is 98% pollution-free, has lower evaporative emissions, and deposits no carbon in the engine or oil, resulting in a tripling of engine life. Specialized alcohol engines can get at least 22% better mileage than gasoline or diesel.

7. It's not just for gasoline cars. We can easily use alcohol fuel to power diesel engines, trains, aircraft, small utility engines, generators to make electricity, heaters for our homes—and it can even be used to cook our food.

8. Alcohol has a proud, solid history. Gasoline is a refinery's toxic waste; alcohol fuel is liquid sunshine. Henry Ford's early cars were all flex-fuel. It wasn't until gasoline magnate John D. Rockefeller funded Prohibition that alcohol fuel companies were driven out of business.

9. The byproducts of alcohol production, instead of being oil refinery waste, are clean and are worth more than the alcohol itself. In fact, they can make petrochemical fertilizers and herbicides obsolete. The alcohol production process concentrates and makes more digestible all protein and non-starch nutrients in the crop. This "byproduct" is so nutritious that when used as animal feed, it produces more meat or milk than the corn it comes from. That's right, fermentation of corn increases the food supply *and* lowers the cost of food.

10. Locally produced ethanol supercharges regional economies. Instead of fuel expenditures draining capital away to foreign bank accounts, each gallon of alcohol produces local income that gets recirculated many times. Every dollar of tax credit for alcohol generates up to \$6 in new tax revenues from the increased local business.

11. Alcohol production brings many new small-scale business opportunities. There is huge potential for profitable local, integrated, small-scale businesses that produce alcohol and related byproducts, whereas when gas was cheap, alcohol plants had to be huge to make a profit.

12. Scale matters—most of the widely publicized potential problems with ethanol are a function of scale. Once production plants get beyond a certain size and are too far away from the crops that supply them, closing the ecological loop becomes problematic. Smaller-scale operations can more efficiently use a wide variety of crops than huge specialized one-crop plants, and diversification of crops would largely eliminate the problems of monoculture.

13. The byproducts of small-scale alcohol plants can be used in profitable, energy-efficient, and environmentally positive ways. For instance, spent mash (the liquid left over after distillation) contains all the nutrients the next fuel crop needs and can return it back to the soil if the fields are close to the operation. Big-scale plants, because they bring in crops from up to 45 miles away, can't do this, so they have to evaporate all the water (and sell the resulting byproduct as low-price animal feed), which accounts for half the energy used in the plant.

14. The design and implementation of a revolution based on small-scale ethanol production is simple common sense, and at the same time a radical departure from the way corporations and the government currently do things. So it's truly up to us citizens to make the change. You will see early on in this book that MegaOilron historically stops at nothing to make sure that the public perception of ethanol is tightly managed. But once you know the truth, you can't be swayed by their propaganda. It's time we share what we know, organize to bring it about, and win.

