

Air Pollution from Greene Energy Resource Recovery Project (GERRP)

This is what the GERRP power plant would be allowed to put in the air, according to the proposed air permit from the state Department of Environmental Protection (DEP). This is on top of other pollution sources which already cause Greene County to be designated as having unacceptably high levels of air pollution (non-attainment for ozone and -- in the vicinity of the power plants -- non-attainment for fine particulate matter).

| <u>Pollutant</u> | <u>tons / year</u> | <u>lbs / day</u> | <u>Health Problems</u> caused or made worse <i>(not a complete list!)</i> | <u>Frequency of Testing</u> |
|--|--------------------|------------------|---|-----------------------------|
| Nitrogen Oxides (NOx) | 2,432 | 13,326 | Worsens asthma; decreases lung function; respiratory disease; helps form ozone, which contributes to asthma, heart attacks, low birth weight and premature births | Continuous |
| Carbon Monoxide (CO) | 4,865 | 26,658 | Injuries to heart, brain and other organ and tissues | Continuous |
| Sulphur Dioxide (SO2) | 5,650 | 30,959 | Lung irritation; worsens asthma; destabilizes heart, low birth rate; sudden infant death syndrome | Continuous |
| Particulate Matter 10 microns or smaller (PM10) | 1,302 | 7,134 | Increased attacks in asthmatic children; increased deaths in elderly; heart disease; stroke; low birth weight; premature births; airway obstruction; sudden infant death syndrome | Once/Year |
| Sulfuric Acid (H2SO4) | 145 | 795 | Reduced lung function | Once/Year |
| Hydrofluoric Acid (HF) | 33 | 181 | Kidney and nervous system damage; damage to bones; learning disabilities | Once/Year |
| Hydrochloric Acid (HCl) | 161 | 883 | Lung irritation, worsens asthma | Once/Year |
| Volatile Organic Compounds (VOCs) | 125 | 685 | Suspected to cause cancer and to be toxic to reproductive system | Once/Year |
| Arsenic | no limit | no limit | Cancer; may damage fetus; lung and skin cancer, tumors of bladder, kidney, liver, lung, damager to nerve, stomach intestines | Once/Year |
| Beryllium | 1.25 | 6.85 | Lung scarring, breathing difficulties, heart strain, and skin irritation, cancer (lung & bone) | Once/Year |
| Lead | 15.70 | 86.03 | Reproductive problems; Memory & behaviour problems, Nerve damage, kidney damage | Once/Year |
| Mercury | 0.00466 | 0.02553 | Nerve toxin; brain damage, mental retardation; birth defects; blood pressure; heart rate | Once/Year |
| Cadmium | no limit | no limit | Cancer (kidney); reproductive problems; kidney & liver damage | Once/Year |
| Chromium VI | no limit | no limit | Cancer (lung & throat); Reproductive problems; Asthma | Once/Year |
| Nickel | no limit | no limit | Possible cancer (lung); Asthma | Once/Year |
| Ammonia | 157 | 860 | Breathing problems; suspected neurotoxin and reproductive toxin | Once/Year |
| Dioxins | no limit | no limit | Cancer; reproductive problems; birth defects; learning disabilities | Never |
| TOTALS | 14,887 | 81,573 | | |

Nearly 15,000 Tons of pollution each year - almost 41 Tons per day