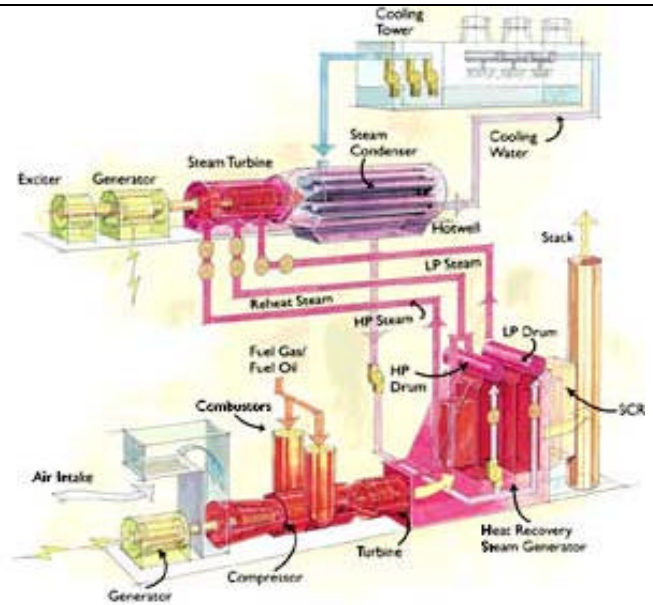


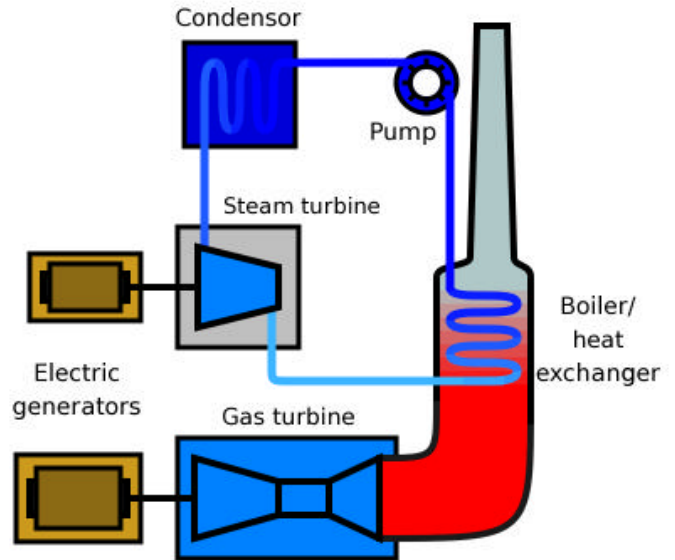
## Caithness Combined Cycle Power Plant

1. Output: 350 MW
2. Efficiency: 60%
3. Input: 583 MW = 2 billion Btu/hr
4. Waste: 233 MW = 0.8 billion Btu/hr
5. Gas Input: 20,000 Therm/hr = 2 million ft<sup>3</sup>/hr
6. Combustion-air Input: ~ 36.8 million ft<sup>3</sup>/hr
7. "Backup" Oil Input: 14,286 GPH
8. Waste heat from stack & cooling tower carried in ~39 million ft<sup>3</sup>/hr of exhaust gases (enough to boil about 10,000 GPM of 55-deg water) creates thermal plumes, updrafts, wind shear and clear air turbulence (CAT).



## Safety Hazards

1. CAT can pose safety hazards to small planes, gliders, skydivers, helicopters and hang-gliders.
2. Given the close proximity to the Brookhaven Town Dump, Heliport and Calabro Airport, Caithness' thermal plume will also lift toxic emissions from the Dump to endanger airborne humans & birds.
3. Nevertheless, the Caithness Environmental Impact Study (EIS) failed to consider such well-documented safety hazards, e.g.: "***The facility would be constructed in a 1-on-1 configuration with one combustion turbine, a heat recovery steam generator (HRSG), and a single steam turbine. The HRSG would be equipped with natural gas-fired duct burners. Air-cooled condensing would be employed to (1) minimize water usage, (2) reduce water treatment costs, and (3) eliminate cooling tower plume impacts...***"(Quote from Draft EIS, January 26, 2005, pg. 2)



This fraudulent and misleading statement ignores "**cooling tower plume impacts**" such as thermal updrafts that can pose safety hazards to low flying aircraft, as well as and toxic fumes from nearby dumping sites and toxic-air from their vents that can harm birds, pilots & aircraft passengers. (See ***Motion By Intervenor Floyd P. Wolfe, In the Matter of: Application for Certification for the Blythe Energy Project Phase II***, California Docket #02-AFC-1 & ***Toxic Waste Sites Map for Brookhaven, NY*** @ [www.toxictargeting.com](http://www.toxictargeting.com).

