

SECTION 9
ENERGY BALANCE

The overall energy balance of the complex is illustrated in Figure 9-1. This figure indicates that of the 36,040 MM Btu/hr energy input from the ground and dried coal, 8,300 MM Btu/hr, or approximately 23%, is consumed within the complex. This consumption includes the power and steam consumed in the mining, coal preparation, and coal grinding and drying operations. The energy value of salable products is projected to total 27,750 MM Btu/hr, or approximately 77% of the total energy input.

COAL ENERGY DISTRIBUTION		
STREAM	MM BTU/H	% CLEAN COAL
FEEDS		
COAL TO PROCESS	30,310	84.1
COAL TO UTILITIES	5,730	15.9
TOTAL	36,040	100.0
PROCESS COAL YIELDS		
SALEABLE PRODUCTS	27,951	77.6
FILTER CAKE	844	2.3
REACTION HEATS	1,515	4.2
TOTAL	30,310	84.1

UTILITY ENERGY DISTRIBUTION		
STREAM	MM BTU/H	% CLEAN COAL
INPUTS		
COAL	5,730	15.9
FILTER CAKE	844	2.3
STEAM	652	1.8
TOTAL	7,206	20.0
OUTPUTS		
TO MINING AND PREPARATION.		
STEAM	458	1.3
POWER	132	0.4
TOTAL	590	1.7
TO OXYGEN PLANT		
STEAM	1,007	2.8
POWER	8	-
TOTAL	1,015	2.8
TO OIL/GAS PLANT		
POWER	601	1.7
FUEL GAS	1,020	2.8
TOTAL	1,621	4.5
LOSSES TO ATMOSPHERE		
STEAM	3,980	11.0
POWER	205	0.6
TOTAL	4,185	11.6

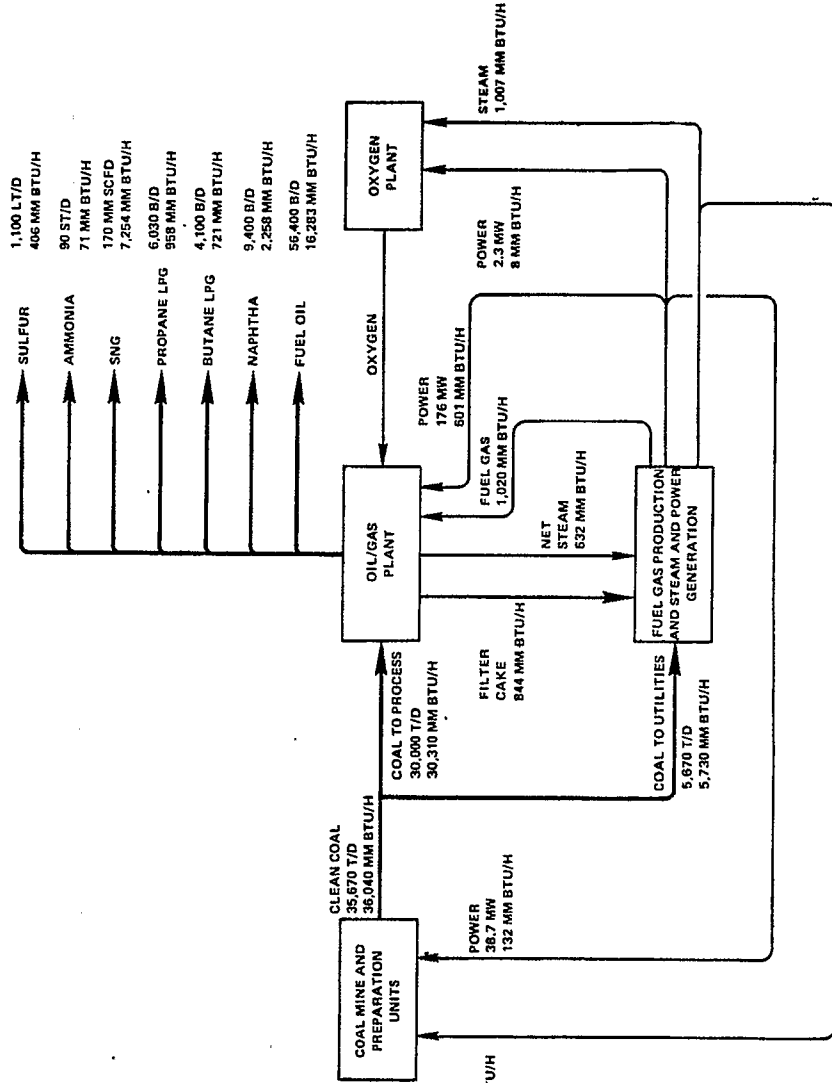


Figure 9-1 - Energy Balance