



TYPE OF FUEL	BTU'S PER LITER	KILOWATTS / LITER	COST PER LITER BAHT	COST PER Kw BAHT	HEAT PUMP EFFICIENCY VS. LISTED FUELS (X's)
DIESEL (PURE)	34000	9.96	27	2.71	3.61
ETHANOL/GASOHOL	31000	9.1	25	2.75	3.66
BIO-DIESEL	36500	10.7	24.5	2.29	3.05
LPG (NO BUTANE MIX)	15000	4.5	16	3.56	4.74
BUTANE (PURE)	24600	7.2	26	3.61	4.81
UNREFINED CRUDE OIL*	35000	10.2	17	1.67	2.22
PROPANE (PURE)	24000	7.3	26	3.56	4.75
ELECTRIC	1Kw = 3413 BTU'S	NA	NA	3	4

HEATING EFFICIENCY IS DESCRIBED AS HOW MUCH MORE EFFICIENT ECO-THERMAL HEAT PUMPS ARE OVER OTHER FUELS

\*\*\* I.E., ECOTHERMAL HEAT PUMP'S PRODUCE 4X MORE ENERGY THAN AN ELECTRIC HEATER FOR SAME COST

AND 3.48 TIMES MORE ENERGY THAN DIESEL FOR THE SAME COST (BASED ON 100% EFFICIENCY)

ELECTRICITY IS PRICED AT BT 3.0 PER Kw AND MAY VARY OVER TIME

BTU'S PER LITER AND COSTS VARY BASED ON FUEL QUALITY AND REFINING MIX / THESE ARE PURE FUEL RATINGS

LPG IN THAILAND IS A MIX OF BUTANE AND PROPANE

\*NOTE: UNREFINED CRUDE OIL IS ALWAYS REFINED FIRST, NEVER USED AS HEATING FUEL (FOR REFERENCE ONLY)