

SHAPE OF THINGS TO COME

IMPACT OF COST OF NATURAL GAS
ON UPGRADES IN
LAS VEGAS, NV
TRACY FOGLESONG - ENERCALC

LAS VEGAS, NV

- HOT DRY CLIMATE
- PREDOMINATELY COOLING CLIMATE
- APPROX. 2500 HD
- MODEL ENERGY CODE 1992

COST EFFECTIVE ANALYSIS
LAS VEGAS, NV
UTILITY RATING

HOUSE #1 SLAB ON GRADE
1120 SQ. FT. RANCH

DESIGN FEATURES	<u>BASE</u>	<u>IMPROVED</u>
HOUSE LEAKAGE (NACH)	0.50	0.35
WINDOWS SHGC	0.62	0.35
HOT WATER (EF)	0.53	0.63
AC (SEER)	10.0	12.0
DUCT LEAKAGE (TOTAL %)	25%	5%

COMPARISONS HOUSE #1

REM/RATE SCORE

<u>BASE</u>	<u>IMPROVED</u>	<u>DIFFERENCES</u>
81.4	87.1	5.7

ENERGY COST/YR

NATURAL GAS	\$265.00	\$221.00	\$ 44.00
ELECTRIC	\$832.00	\$722.00	\$110.00

END USE COST/YR

HEATING	\$177.00	\$148.00	\$ 29.00
COOLING	\$319.00	\$208.00	\$111.00
WH	\$ 88.00	\$ 73.00	\$ 15.00

HOUSE #2 SLAB ON GRADE
2240 SQ. FT. 2- STORY RANCH

DESIGN FEATURES	<u>BASE</u>	<u>IMPROVED</u>
HOUSE LEAKAGE (NACH)	0.50	0.35
WINDOWS SHGC	0.62	0.35
HOT WATER (EF)	0.53	0.63
AC (SEER)	10.0	12.0
DUCT LEAKAGE (TOTAL %)	25%	5%

COMPARISONS HOUSE #2

REM/RATE SCORE

<u>BASE</u>	<u>IMPROVED</u>	<u>DIFFERENCES</u>
82.1	87.8	5.7

ENERGY COST/YR

NATURAL GAS	\$ 424.00	\$347.00	\$ 77.00
ELECTRIC	\$1115.00	\$722.00	\$393.00

END USE COST/YR

HEATING	\$329.00	\$267.00	\$ 62.00
COOLING	\$499.00	\$313.00	\$186.00
WH	\$ 94.00	\$ 80.00	\$ 14.00