

Table 2. Simulation results: new single-story home with gas furnace. R-19 ceiling insulation, 0.3 change in roof solar-reflectance (SRI change of 40): annual cooling energy savings, annual heating savings and annual net energy bill savings in 11 cities. A 0.3 change in solar reflectance is presently not achievable in composite shingle homes. Basecase electricity use includes air-handler energy (Konopacki, et.al, 1997).

City	Annual Electricity Savings		Annual Gas Savings*		Annual Net Energy Bill Savings**		Peak Savings	
	kWh/1000 ft ²	%	kbtu/1000 ft ²	%	\$/1000 ft ²	%	W/1000 ft ²	%
Atlanta, GA	125	9	-383	-2	8	4	91	6
Chicago, IL	72	8	-787	-2	4	1	52	4
Los Angeles, CA	126	15	-244	-5	11	9	130	9
Fort Worth, TX	133	6	-277	-2	8	3	97	5
Houston, TX	151	8	-204	-3	13	6	110	6
Miami, FL	205	6	-1	0	16	5	84	6
New Orleans, LA	171	10	-226	-4	12	7	84	5
New York, NY	57	7	-587	-1	5	1	84	6
Philadelphia, PA	42	10	-1302	-2	-3	-1	91	10
Phoenix, AZ	256	7	-90	-2	27	6	97	4
Washington, DC	101	8	-605	-2	2	1	84	5

Source: Konopacki, et. al, 1997. Simulation tool: DOE 2.1E

*Negative savings mean that fuel use increases.

**Does not include equipment downsizing or utility capacity savings.