

IECC Changes Cost Analysis			
2012 IECC vs. 2009 IECC			
Item	Monterey (2 story)- 2,479 SF cost		Chestnut (ranch) 1,817 SF- cost
75% LED Fixtures vs. 50% LED Light Fixtures	\$	65.07	\$ 42.29
No building cavities used as ducts vs. returns through joists	\$	358.68	\$ 358.68
1" Exterior Continuous wall insulation vs. no continuous wall insulation	\$	3,335.48	\$ 2,067.90
U0.32 Windows vs U0.35 Windows	\$	961.36	\$ 572.18
Total Upgrade Cost	\$	4,721	\$ 3,041
Total Upgrade Cost per sq ft	\$	1.90	\$ 1.67
2015 IECC vs. 2009 IECC			
Item	Monterey (2 story)- 2,479 SF cost		Chestnut (ranch) 1,817 SF- cost
75% LED Light Fixtures vs. 50% LED Light Fixtures	\$	65.07	\$ 42.29
No building cavities used as ducts vs. returns through joists	\$	358.68	\$ 358.68
U0.32 Windows vs U0.35 Windows	\$	961.36	\$ 572.18
1" Exterior Continuous wall insulation vs. no continuous wall insulation	\$	3,335.48	\$ 2,067.90
Blower Door Test and duct leakage test vs. no building testing	\$	463.60	\$ 463.60
HERS energy modeling required vs. Heat Calcs only	\$	91.50	\$ 91.50
Total Upgrade Cost	\$	5,276	\$ 3,596
Total Upgrade Cost per sq ft	\$	2.13	\$ 1.98
2018 IECC vs. 2009 IECC			
Item	Monterey (2 story)- 2,479 SF cost		Chestnut (ranch) 1,817 SF- cost
Blower Door Test and duct leakage test vs. no testing	\$	463.60	\$ 463.60
No building cavities used as ducts vs. returns through joists	\$	358.68	\$ 358.68
HERS energy modeling required vs. Heat Calcs only	\$	91.50	\$ 91.50
1" Exterior Continuous wall insulation vs. no continuous wall insulation	\$	3,335.48	\$ 2,067.90
U0.32 Windows vs. U0.35 Windows	\$	961.36	\$ 572.18
Supply/Return boots must be sealed to floor (mastic) vs. none	\$	268.40	\$ 268.40
90% LED Light Fixtures vs. 50% LED Light Fixtures	\$	88.73	\$ 57.67
Total Upgrade Cost	\$	5,568	\$ 3,880
Total Upgrade Cost per sq ft	\$	2.25	\$ 2.14
2021 IECC vs. 2009 IECC			
Item	Monterey (2 story)- 2,479 SF cost		Chestnut (ranch) 1,817 SF- cost
No building cavities used as ducts vs. returns through joists	\$	358.68	\$ 358.68
Supply/Return boots sealed to floor (mastic) vs. none	\$	268.40	\$ 268.40
0.30 U-Value Windows vs. 0.35 U-Value Windows	\$	961.36	\$ 572.18
1" Exterior Continuous wall insulation vs. no continuous wall insulation	\$	3,335.48	\$ 2,067.90
Aeroseal/Duct Mastic vs. tape sealing of ductwork	\$	1,046.37	\$ 1,046.37
Full Energy Star Testing and Modeling vs. heat calcs only	\$	677.10	\$ 677.10
R60 ceiling insulation (R49 vaults) vs. R49 ceiling insulation (R30 Vaults)	\$	2,598.60	\$ 3,334.26
Electric Water Heater (2.0 EF)/Nat gas (.82 EF) vs. Nat Gas Water Heat (.72 EF)	\$	1,027.44	\$ 1,027.44
95 AFUE Gas Furnace vs. 90 AFUE Gas Furnace	\$	610.00	\$ 610.00
100% LED Fixtures vs. 50% LED Light Fixtures	\$	97.60	\$ 63.44
Spray Foam Insulated Rim Joist (R20) vs. Fiberglass Insulated Rim Joist (R20)	\$	566.08	\$ 610.00
Energy Certificate added vs. no Energy Certificate	\$	30.50	\$ 30.50
Total Upgrade Cost	\$	11,578	\$ 10,666
Total Upgrade Cost per sq ft	\$	4.67	\$ 5.87
2024 IECC vs. 2009 IECC			
Item	Monterey (2 story)- 2,479 SF cost		Chestnut (ranch) 1,817 SF- cost
No building cavities used as ducts vs. returns through joists	\$	358.68	\$ 358.68
Supply/Return boots sealed to floor (mastic) vs. none	\$	268.40	\$ 268.40
0.28 U-Value Windows vs. 0.35 U-Value Windows	\$	961.36	\$ 572.18
EV Charger	\$	738.00	\$ 738.00
Full Energy Star Testing and Modeling vs. heat calcs only	\$	677.10	\$ 677.10
100% LED Fixtures vs. 50% LED Light Fixtures	\$	97.60	\$ 63.44
Spray Foam Insulated Rim Joist (R20) vs. Fiberglass Insulated Rim Joist (R20)	\$	566.08	\$ 610.00
Energy Certificate added vs. no Energy Certificate	\$	30.50	\$ 30.50
100% LED Fixtures vs. 50% LED Light Fixtures	\$	97.60	\$ 63.44
Aeroseal/Duct Mastic vs. tape sealing of ductwork	\$	1,046.37	\$ 1,046.37
Energy Recovery Ventilator (ERV) vs. no mechanical fresh air ventilation	\$	1,693.36	\$ 1,693.36
16-SEER Air Conditioner vs. 14-SEER Air Conditioner	\$	746.64	\$ 746.64
Electric Water Heater (2.0 EF)/Nat gas (.82 EF) vs. Nat Gas Water Heat (.72 EF)	\$	1,027.44	\$ 1,027.44
95 AFUE Gas Furnace vs. 90 AFUE Gas Furnace	\$	610.00	\$ 610.00
Total Upgrade Cost	\$	8,919	\$ 8,506
Total Upgrade Cost per sq ft	\$	3.60	\$ 4.68

=

added from previous IECC version

=

an option within IECC to achieve overall goal

General Notes:

20% more tighter than 2021 IECC

Ceiling insulation reqs. go back to 2018 IECC

More options/flexibility to meet points reqs.

Solar Ready: \$500

Foundation Wall C1 15: \$4,000

Foundation Wall C1 10: \$3,400

R20 Walls (for those at 2x4): \$1,200

Insulated Ductwork/Pipes (unfinished basement): \$4,000

Biggest variable: How tight the home will be to meet the req'd points

This may cost some builders and consumers more money depending on the home