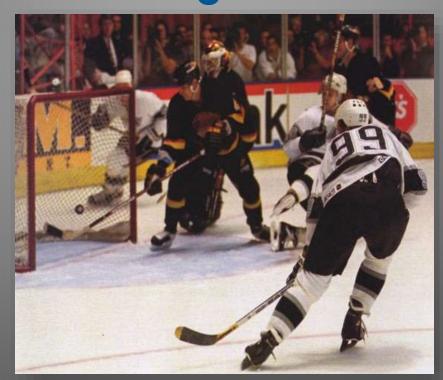


ReNEWable Home

CR Herro Meritage Homes

renewables living home



Intentions:

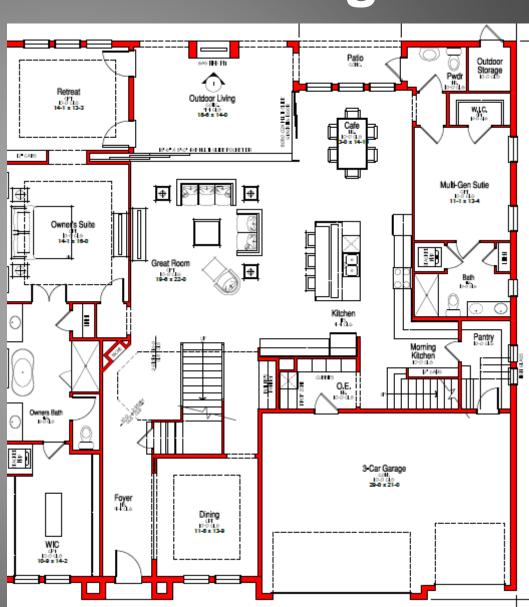
- Optimize Multigenerational Needs
- Improve Health
- Improve Disaster Resistance
- Optimize Energy Efficiency
- Implement Advanced Energy Management
- Improve 'Buildability'

 MAINTAIN FIRST COST AND TRADITIONAL AESTHETICS



Multigenerational Design

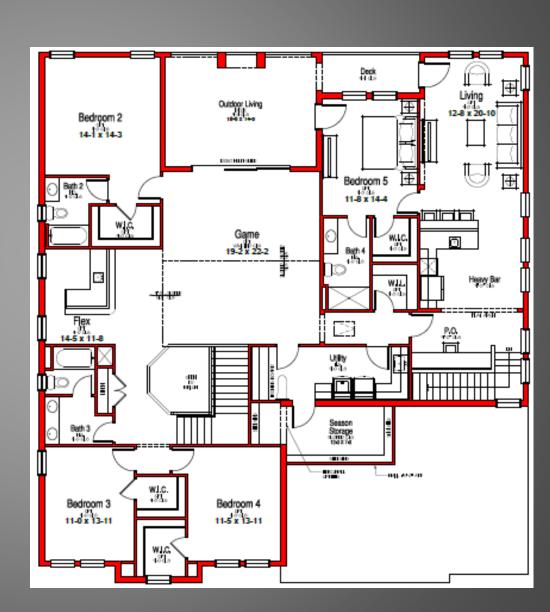
- Independent Grandparent suite off Kitchen
- Master Retreat
- Independent
 2° Access



Multigenerational Design

- Independent Boomerang Suite
- Common / Private Areas

• 3 homes in one



Improve Health

Homes to the Power of ZERO



What is the DOE Zero Energy Ready Home™ Label?

It is a Symbol of Excellence for energy savings, comfort, health, quality, and durability met by a select group of leading builders meeting U.S. Department of Energy Guidelines.

What is a Zero Energy Ready Home?

It is a high-performance home so energy efficient, all or most annual energy consumption can be offset with renewable energy. In other words, it is the Home of the Future.

A Symbol of Excellence



This graphic comparison chart commistrates relative performance of this DOF Zero Linergy Ready Home to existing homes (built between 1990 and 2010) and ENTRGY STAR Cartified Homes. Actual performance may vary.

Existing Home



Improve Health

- Indoor airPLUS
 - Supply ventilation
 - High efficiency filtration
 - Low VOC
 - ACH50 <2
- Smart Ventilation
- Dehumidifying humidifier
- Mildew Resistant Paint (SWP)
- VOC catalytic reduction (Air Renew)

Disaster Resistance

- Stronger
- More durable
- Precision engineered
- Energy efficient
- Rot/Mold/Termiteproof
- Cleaner, Healthier,
 Safer
- Quieter



Disaster Resistance

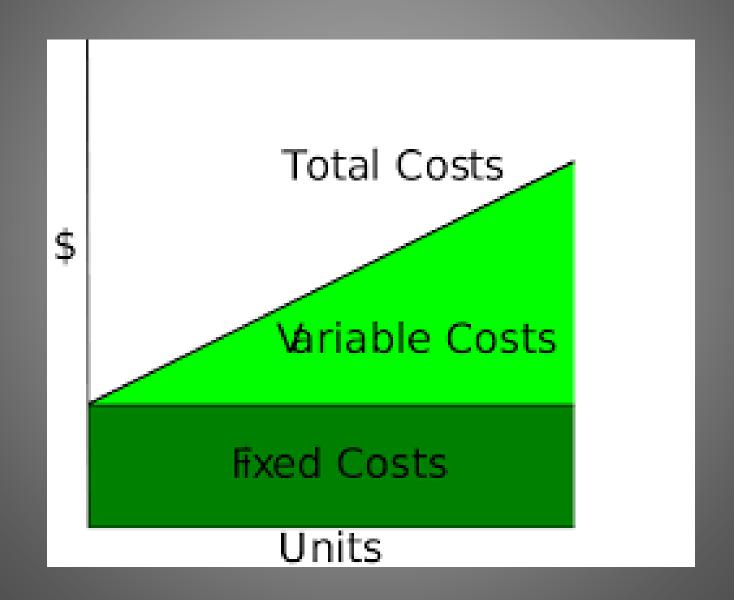


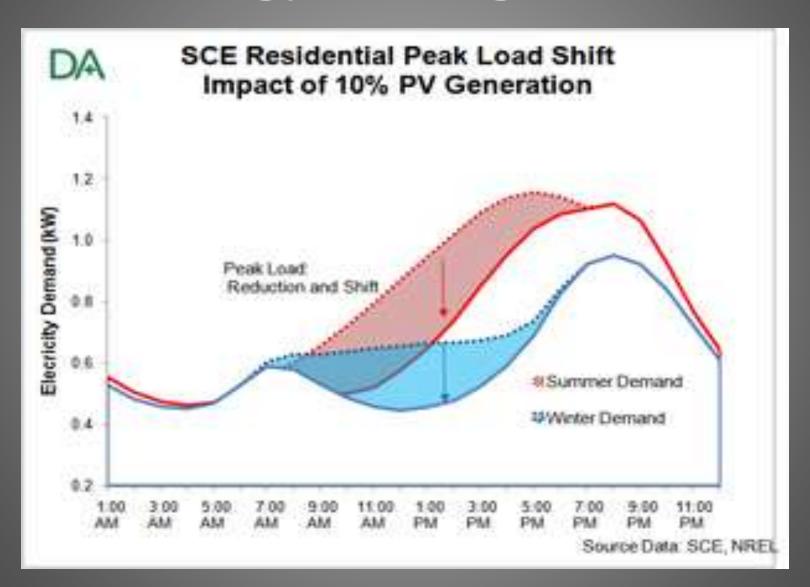
Energy Efficiency

- Insulated Slab / Slab Edge
- Insulated Concrete
- Low E Windows
- UV Reflective Roof
- Multihead Variable Flow Minisplits
- Dehumidifying ventilation
- Heat Pump water heater
- EE Appliances / LED lights
- Home Automation

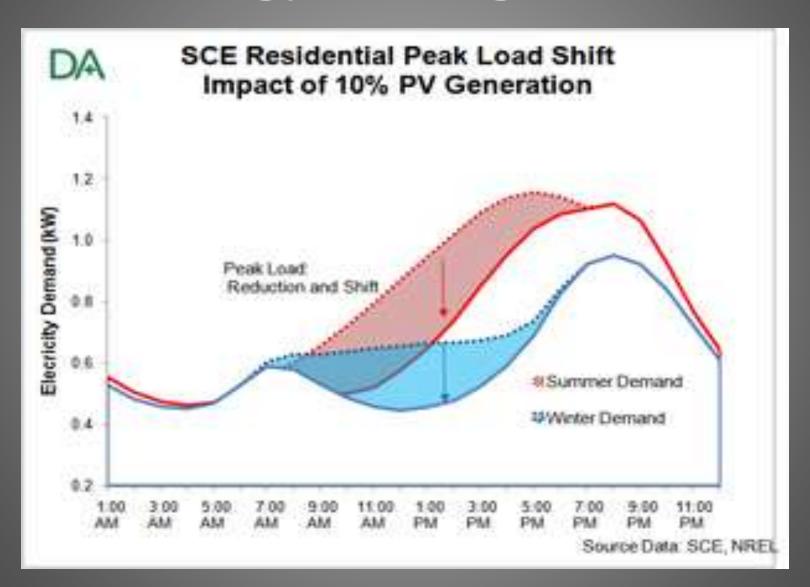


Energy Efficiency







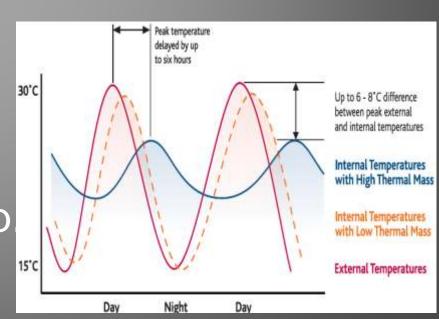




- 1. Smart ventilation (off peak)
- 2. Isolated Thermal mass / phase change
- 3. Thermal storage (heatpump HVAC precool off peak)
- 4. Low solar heat gain (reflective / vented

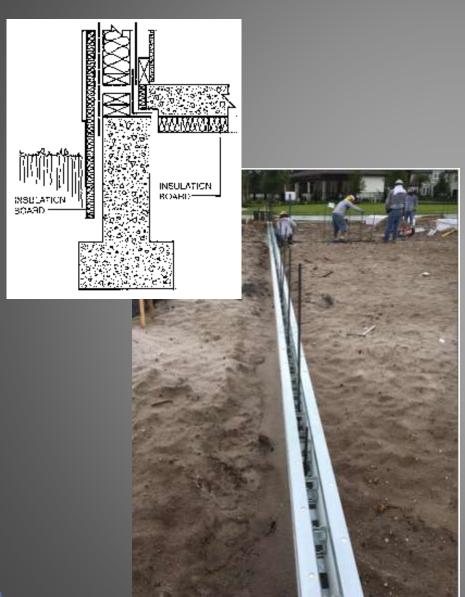
cladding materials)

- 5. Smart appliances
- 6. Large hot water storage w/ heat pump.
- 7. West facing solar.



 The number of things connected to the Internet exceedes the number of people on Earth. By 2020, there will be 50 billion connected devices













MJ/kg 0.10 0.24 0.42 0.79 0.94 1.3 2.0 2.5	MJ/m3 150 31 819 2030 2350 3180 2780
0.10 0.24 0.42 0.79 0.94 1.3 2.0 2.5	150 31 819 2030 2350 3180 2780
0.24 0.42 0.79 0.94 1.3 2.0 2.5	31 819 2030 2350 3180 2780
0.42 0.79 0.94 1.3 2.0 2.5	819 2030 2350 3180 2780
0.79 0.94 1.3 2.0 2.5	2030 2350 3180 2780
0.94 1.3 2.0 2.5	2350 3180 2780
1.3 2.0 2.5	3180 2780
2.0 2.5	2780
2.5	
2011511	1380
70.7	5170
3.3	112
6.1	5890
8.0	4400
8.1	21870
8.9	37210
9.0	4930
10.4	5720
14.6	139
15.9	37550
30.3	970
32.0	251200
51.0	371280
62.0	519560
70.0	93620
70.6	631164
93.3	117500
116	150930
117	3770
148	84900
170	515700
	8.1 8.9 9.0 10.4 14.6 15.9 30.3 32.0 51.0 62.0 70.0 70.6 93.3 116

NOTE: Embodied energy values based on several international sources - local values may vary.





THANK YOU!

CR Herro
VP of Innovation