



WELCOME

# Pals Enviromatics

- Steve Jackson, Certified Energy Advisor (CEA)
- Pals currently has 5 CEA's on staff
- Pals owns & operates a not for profit Service Organization called “**Enervision**” which is in partnership with Natural Resources Canada
- Pals Enviromatics is the “Delivery Agent” for Built Green Canada in Alberta.

- The new Oxford subdivision will be a forward-thinking community, demonstrating real benefits of sustainable design and environmentally sensitive home building in a range of desirable home types.
- There are many Sustainable programs available to the general public and builders.

# *The Mark of a Better Home*





- LEED promotes a holistic approach to sustainability by recognizing performance in five key areas of human and environmental health, which include sustainable site development , water efficiency, energy efficiency, materials selection, indoor environmental quality.



- The R-2000 Standard includes requirements related to energy efficiency, indoor air quality and the use of environmentally responsible products and materials.
- Only home builders who have completed R-2000 builder training and hold a current R-2000 builder licence can build homes that can be certified to the R-2000 Standard.



- Again...related to energy efficiency, indoor air quality and the use of environmentally responsible products and materials.
- Install Energy Star products (lights, appliances, mechanics)
- Currently no standard for Energy Star in Alberta



- To promote, encourage, enable and recognize environmentally responsible residential home construction practices.
- All Builder members must be trained in BUILT GREEN® practices, policies and procedures prior to building their BUILT GREEN® projects.
- Must be a member of a professional association.



- An EnerGuide rating shows a standard measure of your home's energy performance.

### Typical Energy Efficiency Ratings

Type of House	Rating
New House build to building code standards	65-72
New house with some energy-efficiency improvements	73-79
Energy-efficient new house	80-90
House requiring little or no purchased energy	91-100

- The office of Environment through the new Green Building Policy is offering limited-time grants for those who wish to exceed the minimum Energuide rating of 78.
- \$1000 – Energuide 80-81
- \$3000 – Energuide 82-83
- \$5000 – Energuide 84-85
- \$7000 – Energuide 86 or better

# Currently homes built to building code today:

- R20 Exterior Walls
- R12 Frost Wall
- R40 Ceiling
- Dual Pane Windows
- 92% AFUE Furnace
- 40-50 Gal Hot Water Tank

# Most Typical Upgrades Seen Today:

- Triple Pane Windows
- R20 Frost Walls
- R50 Ceilings
- 95% AFUE Furnace
- Instant Hot Water units
- Heat Recovery Ventilator (HRV)
- Air Tightness!!!

# Process

Home Owner/Builder



Contact CEA (Pals Enviromatics)



Construct Home



Contact CEA to schedule Final Energy Inspection

Thank You

Questions???

# Pals Enviromatics

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References: Natural Resources Canada – Office of Energy Efficiency <http://oee.nrcan.gc.ca/home>