

BRATTLEBORO CHARRETTE  
**ENERGY**

**Notes** from Open Discussion  
November 29, 2007

Notes:

- Hydro-power
- Solar
- Wind
- Biomass
- Rainwater reuse
- Geothermal
- Refrigeration – waste heat
- Green Roof
- Tangible energy goal
- Carbon footprint
- Metrics to measure progress
- Transparent infrastructure
- Daylighting
- Air quality
- Catalyst for renewable energy businesses
- Comfort
- Improve envelope of building
- Relink variable kitchen exhaust
- Compartmentalize spaces for use and controllability
- IAQ
- I meter for power
- Energy recovery for air
- On peak and off peak electrical utilization
- Thermal storage
  - Heat and cool
- Non coincidental energy use
- Energy management system
- Sky lights – solar tubes
- Infloor radiant heat
- Peak shaving for power
- Door heater controls
- PSC meters on evaps
- Humidity control
- Evap fan motor controls
- Central refrig rack
- Floating head pressure control
- Freeze air cooling
- Cow power
  - Green power
- District energy

- LED lighting
- Occupancy control
- Solar powered pole lights
- At a minimum design the building and systems to be 40% better than code
- 90KBTU/SF/YR EUI
- Building orientation
  - Solar
- Geothermal
- Passive cooling/heating

Strategies:

- Daylighting/passive solar
- Thermal storage
- Peak shaving (attention to)
- Radiant floor
- Consider fuel source/type and carbon footprint

**Goals/Metrics:**

- 40% better than code
- 90KBTU/SF/YR EUI Index
- Win Efficiency Vermont design competition 2010

**Strategies: Net zero E**

- Durable efficient envelope
- High efficiency refrigeration with heat recovery
- Tie in to district energy (and absorption)
- Compartmentalize spaces (use control)
- Get support from Efficiency Vermont
- One electrical meter (not six)