

INTRODUCING

Integrated Solar

- TENNESSEE LICENSED ELECTRICAL CONTRACTOR
- FOUNDED 2005
- SOLAR, WIND, MICRO HYDRO
- COMMERCIAL AND INDUSTRIAL BUILDINGS
- EDUCATIONAL & GOVERNMENT FACILITIES
- ENERGY MANAGEMENT SYSTEMS
- BACNET INTERFACES
- ELECTRICAL SERVICES
- LOW VOLTAGE WORK
- COMMUNICATIONS AND SECURITY
- DESIGN SERVICES

INTEGRATED SOLAR INC.

- **HAS MAKE A COMMITMENT TO GO**

- **GREEN**

INTEGRATED SOLAR

(INTEGRATED CONTROLS CORP. OF TN)

- SOLAR ENERGY
- WIND ENERGY
- ENERGY MANAGEMENT
- ENERGY SURVEYS TVA
- GASIFICATION

WWW.ICONTROLSOLAR.COM

WIND POWER

BETHEL UNIVERSITY

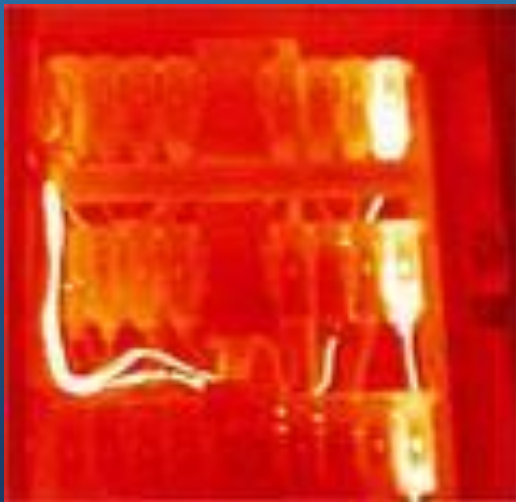
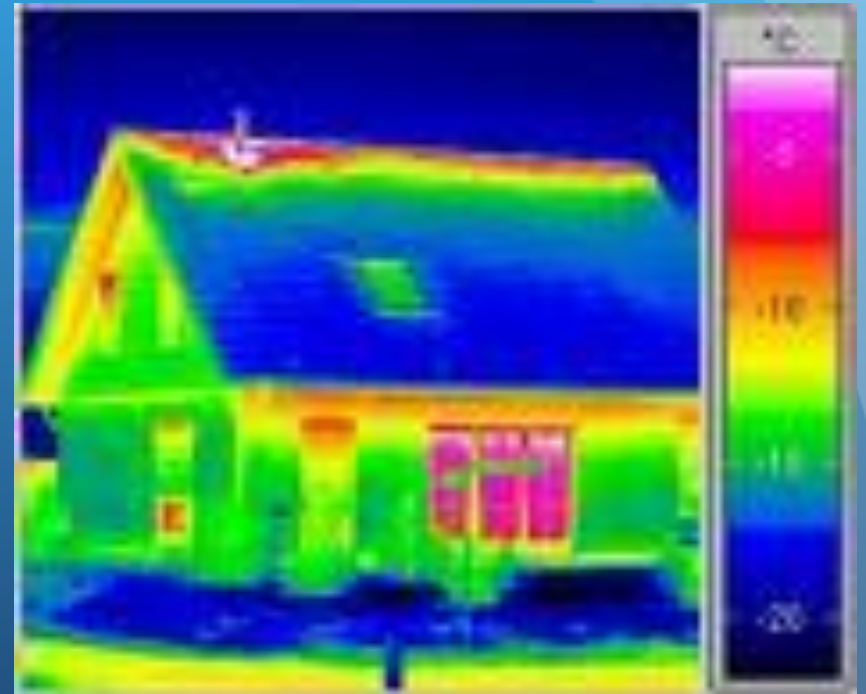
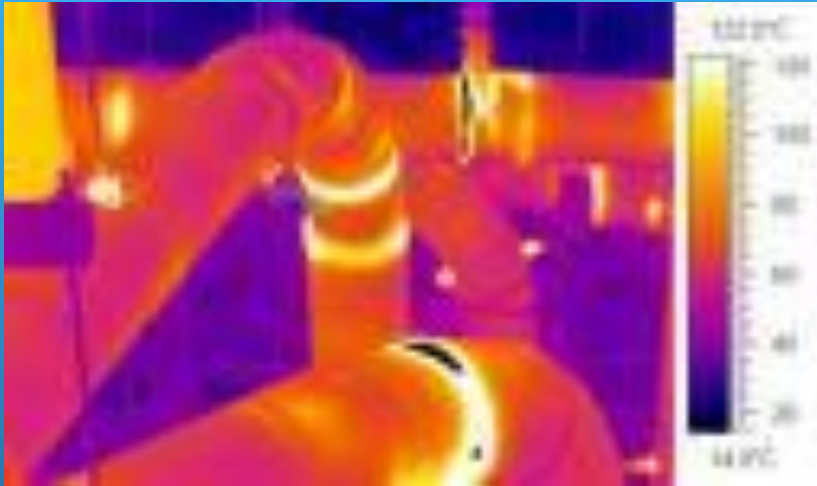


SOLAR ENERGY

BETHEL UNIVERSITY



THERMAL IMAGING



WOOD WASTE GASIFIER



WHAT IS GASIFICATION?

Gasification is the process of heating a biomass fuel in an oxygen deprived environment to vaporize components of the fuel, capturing this vapor, cleaning and condensing it makes a substitute fuel with somewhat less BTU content than natural gas or propane.



WHAT ARE THE BENEFITS?

- The gasification process provides clean “ GREEN “ fuel, that has no negative impact on the environment whether producing heat, electrical power or both. The gasifier does not produce harmful pollutants into the atmosphere. Our gasifier’s two main byproducts are water and harmless potash.





WHAT FUELS THE GASIFIER?

- WOOD WASTE AND MANY OTHER TYPES OF BIOMASS QUALIFY AS RENEWABLE FUELS FOR THE USA RENEWABLE STANDARD. THESE FUELS CAN BE CONSUMED IN THE GASIFIER SYSTEM TO PRODUCE HEAT AND ELECTRICITY FOR INDUSTRIAL AND COMMERCIAL APPLICATIONS. THIS CAN INCLUDE DECENTRALIZED MODULAR POWER PLANTS IN 1 MW UNITS TO ALLOW THE POWER PURCHASER TO BECOME GREEN AND POSSIBLY CONSUME THEIR OWN BYPRODUCTS TO ACHIEVE THIS.

WHAT MAKES OUR GASIFIER DIFFERENT?

- Carbon neutral with limited emissions making it easily permitted
- Higher fuel to energy efficiency
- Heat / steam recovery for other uses
- Syn gas to liquid ethanol conversion is higher than starch based sugar processes
- No use of edible food products
- Sustainable agricultural waste products and timber waste
- By-products are water and ash

ENGINEERING SERVICES

★ **TVA DEMAND REDUCTION PROGRAM**

★ ***SOLAR SITE ASSESSMENTS***

★ ***ANALYTICAL ENERGY SERVICES***

★ ***ELECTRICAL / STRUCTURAL / MECHANICAL***

★ ***ELECTRICAL / HIGH VOLTAGE / LOW
VOLTAGE / ENERGY STUDIES***

