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## **CORNERSTONE TECHNOLOGY: THERMAL CONVERSION PROCESS (TCP)**

### **Description**

- TCP is a patented bio-remediation process that converts wastes into solids, renewable diesel and specialty chemicals.
- TCP was developed by a team of scientists over a 15-year period, utilizing modern engineering to apply basic science principles that have been understood for over two centuries. As such, TCP was created from science, not for science.
- TCP will help to reduce national dependence on foreign oil and supplement existing reserves, while helping to solve the global problems of waste disposal and environmental pollution.
- TCP is a continuous flow-through process in a controlled environment using water, temperature, pressure and time, with no critical operating parameters.

### **How It Works**

- TCP emulates the earth's natural geothermal process, whereby organic material is converted into fossil fuel under conditions of extreme heat and pressure over millions of years.
- TCP mimics the earth's system using pipes and by controlling temperature and pressure to reduce the bio-remediation process from millions of years to mere hours.
- TCP breaks down organic polymers (chains of small molecules) into their smallest units, and reforms them into new combinations to produce clean, renewable fuels.

### **Energy Efficiency**

- TCP is over 80% energy efficient.
- TCP has very low Btu requirements, due to short residence times of the materials in process and to holding of water under pressure.
- TCP uses steam naturally generated by feedstock, thereby recapturing the expended energy.
- TCP generates its own energy.

### **Environmental Efficiency**

- TCP uses recycled water.
- TCP produces no secondary hazardous waste stream.