in The World"

2012 Edison Award

Water and





Our Technology

3/45 Years Experience

Generates electricity from waste

heat & pressure

3/1/Jtilizes helical screw technology

What is the Technology?



Helical Twin Screw Rotors in casing

Technology Comparison

Langson Steam Machine vsSteamTurbines

3/4 Lowest Capital cost
 3/4 Lowest Operating cost
 3/4 Allows changes in flow rates and pressure changes

Some renewable energy is impractical or too expensive

DOD Report

Manufacturing Readiness Levels in the Department of Defense

Report Date September 6, 2011

Level 7 – Capability to produce systems, subsystems or components in a production representative environment.

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- Bachelor of Science in Physics
- Master of Science in Chemical Physics
- Part of President Reagan's Defense Technology Study Team
- President Bush's Space Exploration Initiative
- Consultant to Raytheon Missile Systems on the NASA Concept Evaluation and Refinement effort



Applications Steam

{ Geothermal & Geopressure

- { Petrochemical and Industrial Pressure
- { LNG & pressurized Gases
- { Coal and Gatired Power Plants
- { Biogas& Biomass
- { Oil & Gas Gemressure

Steam Machine 1–50 MW

- 3/4 Low Installed Cost (less than\$1500 per kW)
- 3/4 Low Maintenance (100k hrs.)
- 3/4 All In Generating Cost 2 ½ ¢ per kW

1 to 50 MW Modular Skids

Applications

Geothermal

Geo-Pressure

xTopping Units

Bottoming Units

Steam Blowdown

Process Steam

*Paper Mills

Fertilizer Plants

Bio Gas Boiler

Petro Chemical

Food Processing

Steam Plants

Solar Thermal

STEAM TYPES

Saturated Steam

Dry Steam

Flash Steam

Wented Steam

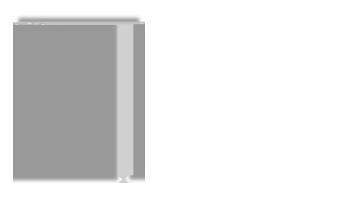
2 Phase Fluid

Waste Steam

ValueProposition Steam Machine

Technology

Renewables:	Uses Fossil Fuel	Emission Free	Base Load 24/7	Distributed Generation	Generation Cost (1) ¢/kW
Langson Energy	no	yes	yes	yes	1½ - 2½ ¢
Geothermal	no	yes	yes	no	5 - 7 ¢
Wind	no	yes	no	no	5 - 10 ¢
Biomass	no	yes	yes	yes	7 - 8 ¢
Solar Thermal	no	yes	no	yes	9 - 12 ¢
Photovoltaics	no	yes	no	yes	12 - 20 ¢



History of Our Technology

•	50 gallons per mile	•	300 MPH in 5 seconds
•	0 – 100 MPH in ½ second	•	10,000 HP from V8 engine

Recycling energy worldwide