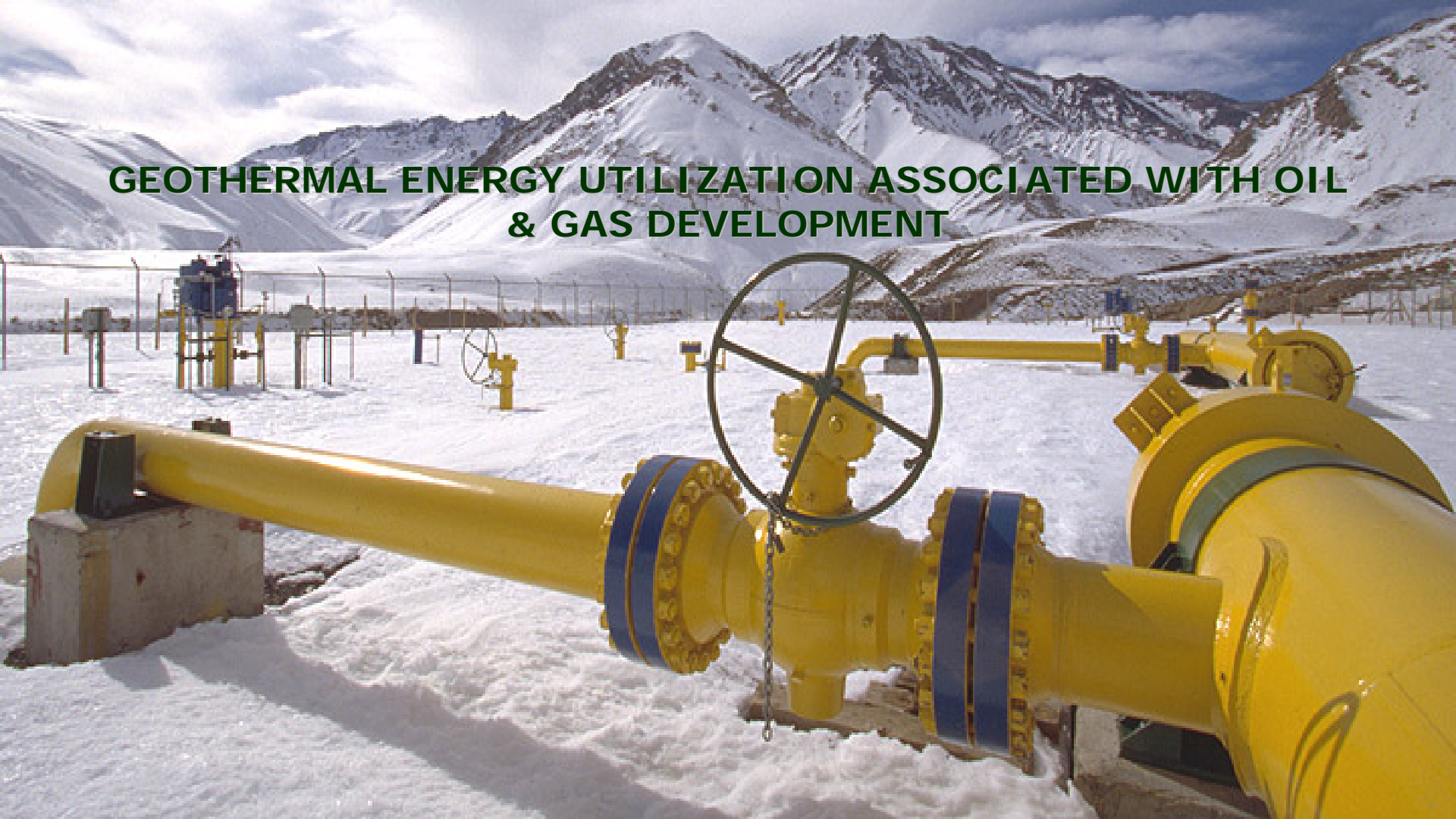


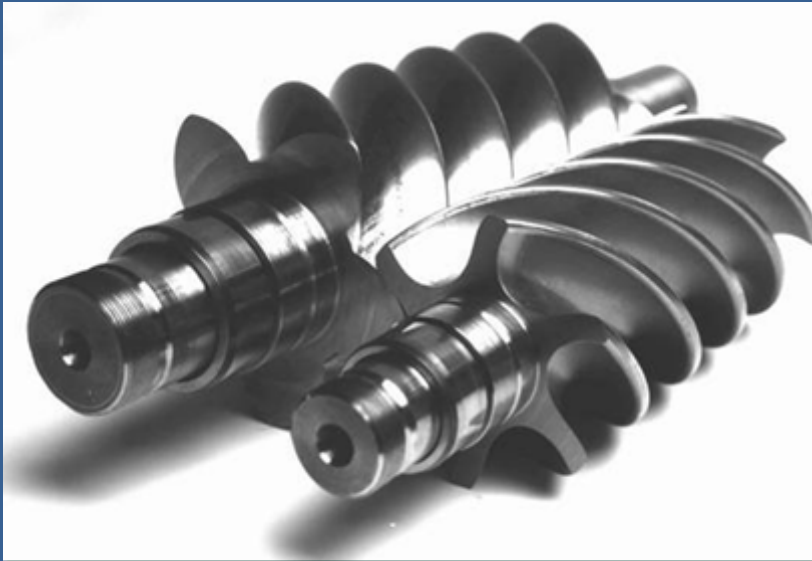


*Delivering cleantech energy solutions  
for a sustainable future, now*

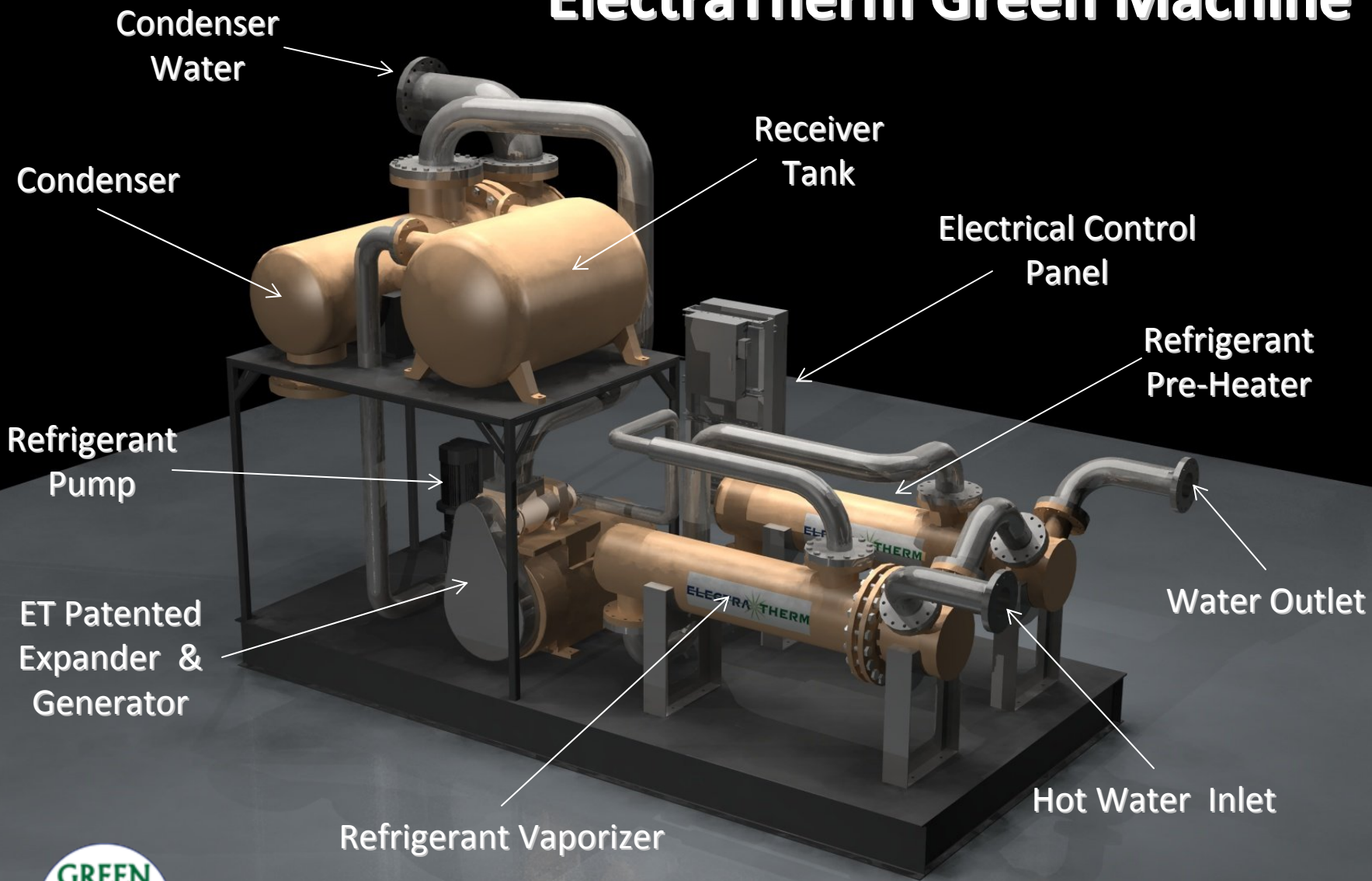
## **GEO THERMAL ENERGY UTILIZATION ASSOCIATED WITH OIL & GAS DEVELOPMENT**



# ElectraTherm's twin screw expander replaces turbine technology with major benefits

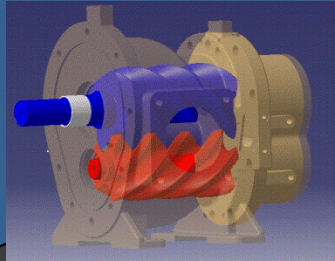


# ElectraTherm Green Machine





# How it Works



HEATED PRESSURIZED VAPOR

LOW PRESSURE VAPOR

Under pressure, the vapor is forced through the screw expander, turning it to spin an electric generator

HEAT SOURCE IN >>

<< COLD SOURCE IN

Surplus heat captured by the evaporator is used to "boil" the working fluid into a vapor

The vapor is cooled and condensed back into a liquid in the condenser

<< HEAT SOURCE OUT

COLD SOURCE OUT >>

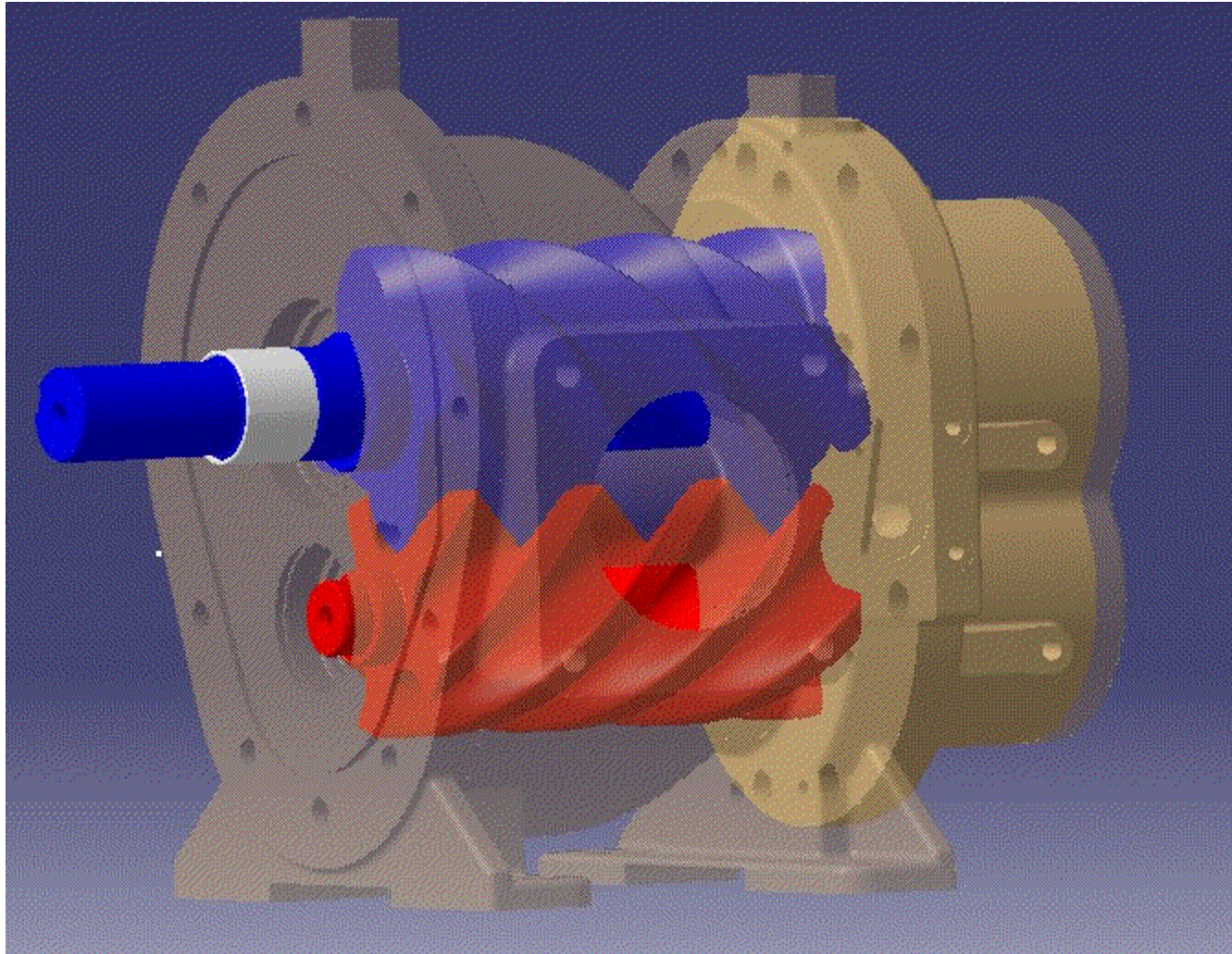
The working fluid is pumped to higher pressure and returned to the evaporator to repeat the process

HIGH PRESSURE LIQUID

LOW PRESSURE LIQUID



# Twin Screw Rotors in Casing



# Product Validation



2005 James Clayton Prize Winners



Successful 3<sup>rd</sup> Party Testing



2007 Best of Show Technology



2007 Best Scientific Paper



1<sup>st</sup> Commercial Unit



3 years of testing





# ElectraTherm Green Machines Deliver



SUSTAINABLE GREEN POWER



ELECTRICITY FROM WASTE



ON SITE POWER



RECURRING REVENUE

# SMU Installation 50kW Green Machine

