



# Dynamic Energy Conversion: Vital Technology for Space Nuclear Power

Lee Mason

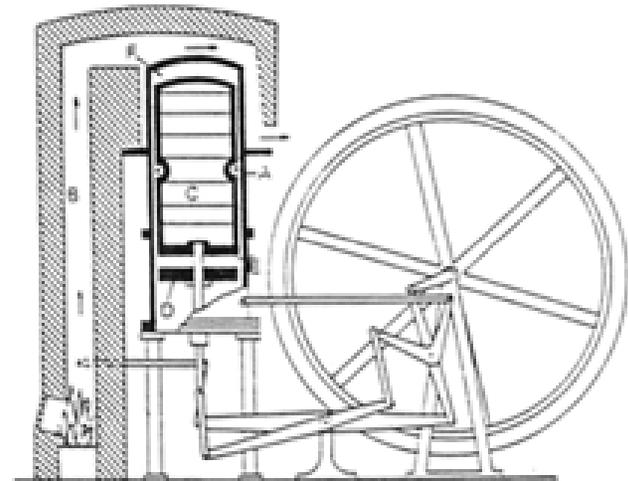
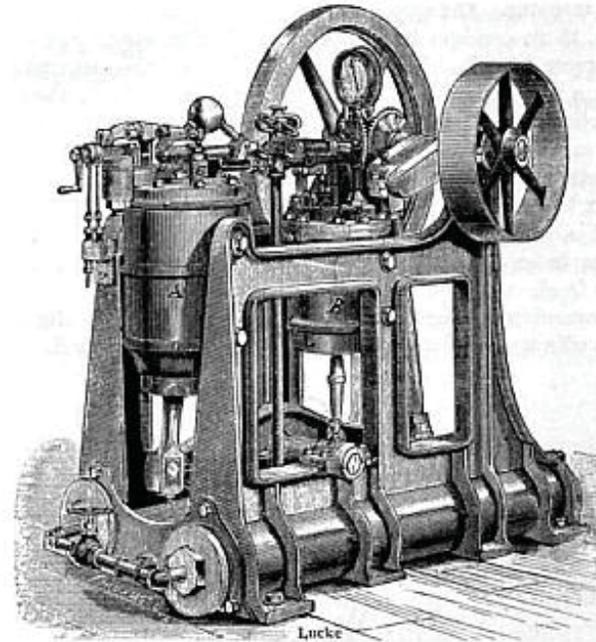
Chief, Thermal Energy Conversion Branch

NASA Glenn Research Center

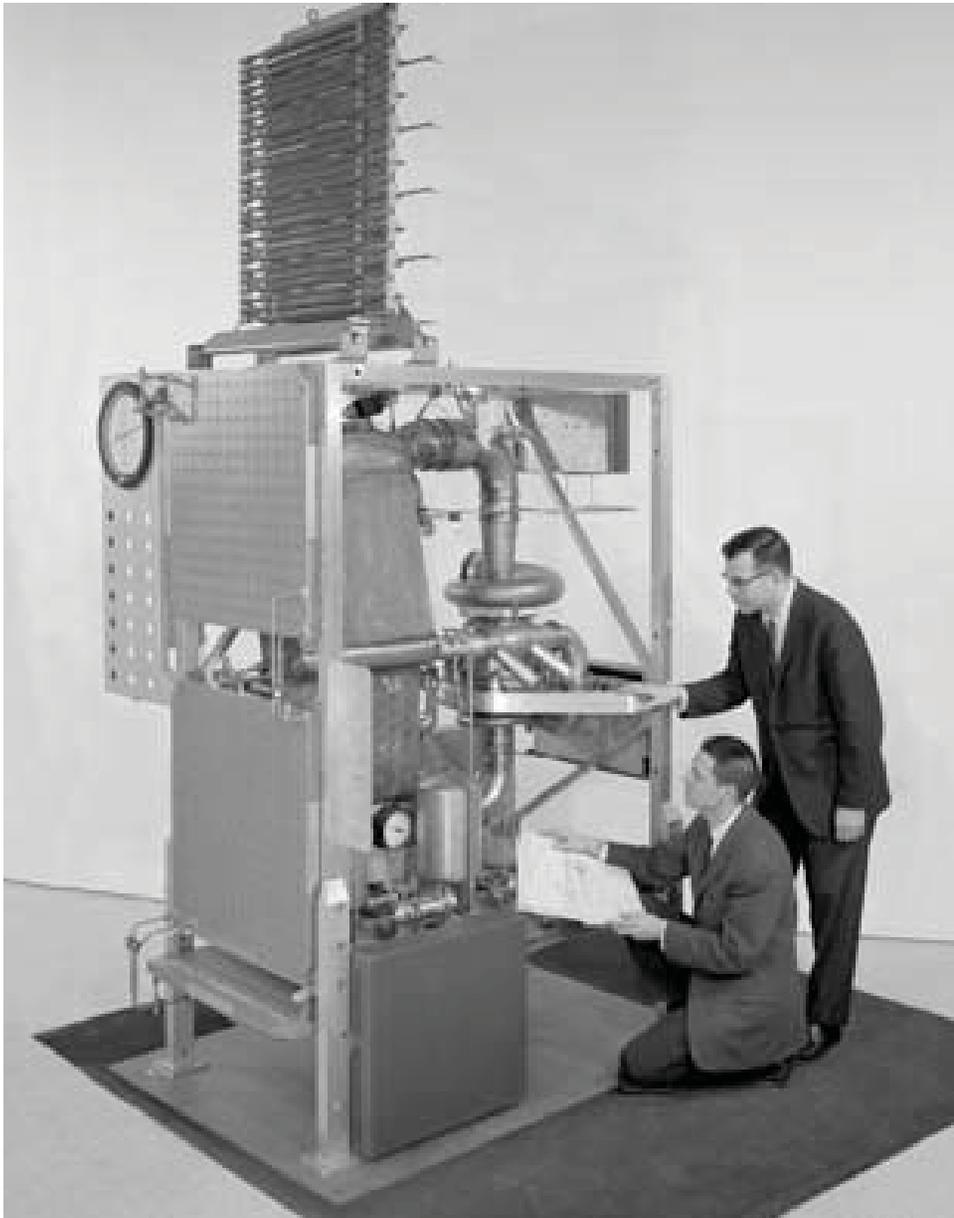
July 30, 2014

# Agenda

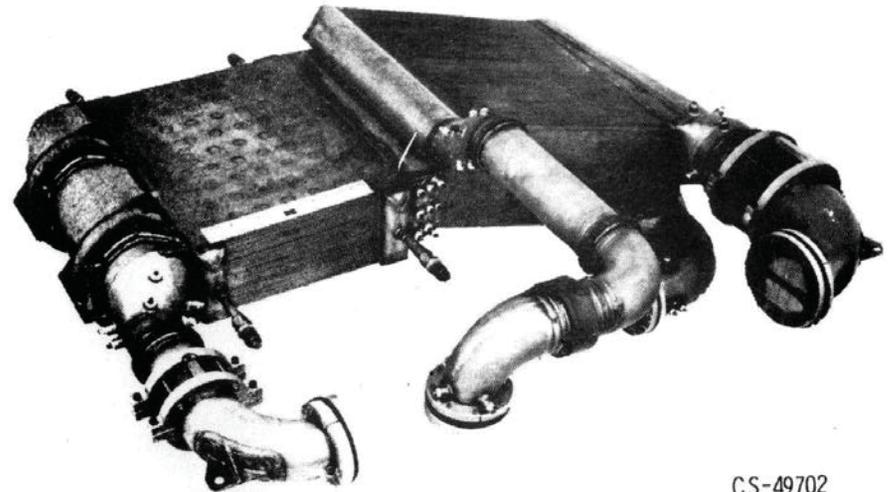
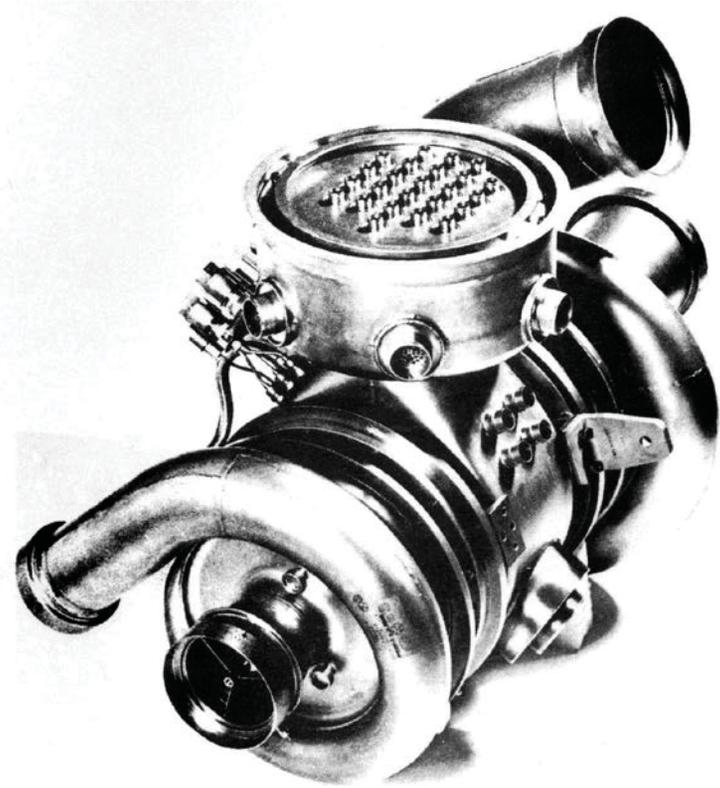
- Closed Brayton Cycle
  - Brayton Rotating Unit
  - Mini-BRU
  - Solar Dynamic Brayton
  - Prometheus Program
- Free Piston Stirling
  - Early Systems
  - SP-100
  - Radioisotope Power Systems
  - Fission Surface Power



# Brayton Rotating Unit

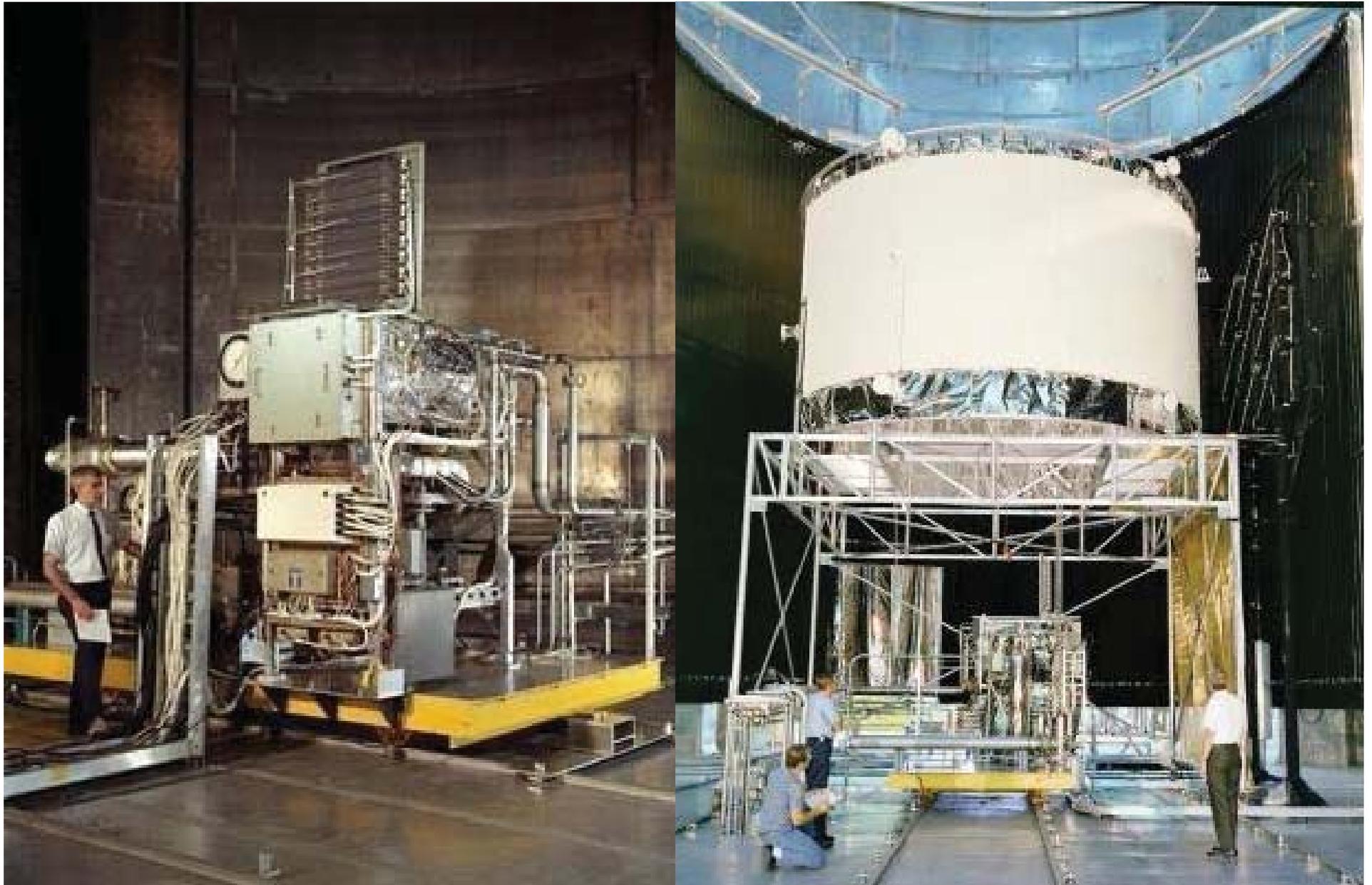


National Aeronautics and Space Administration

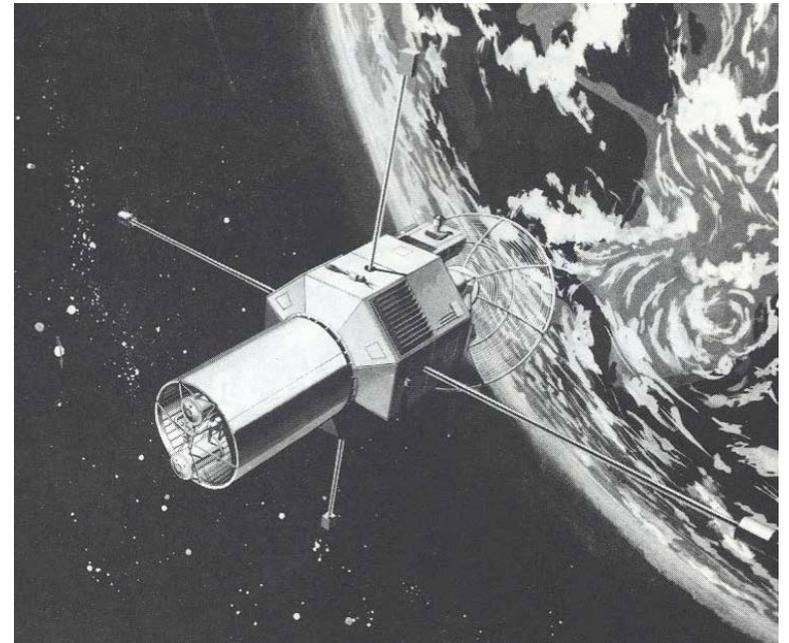
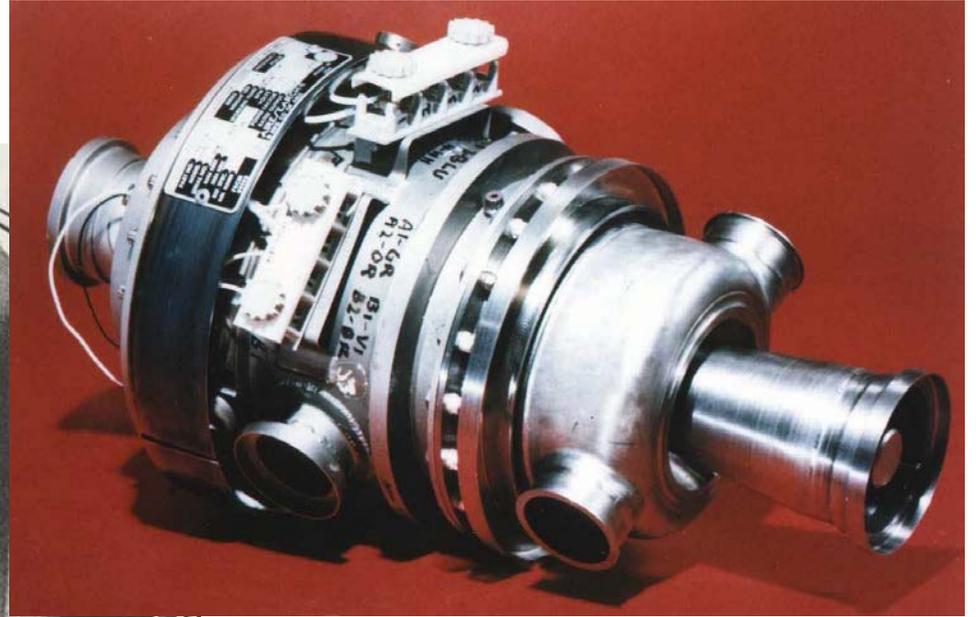
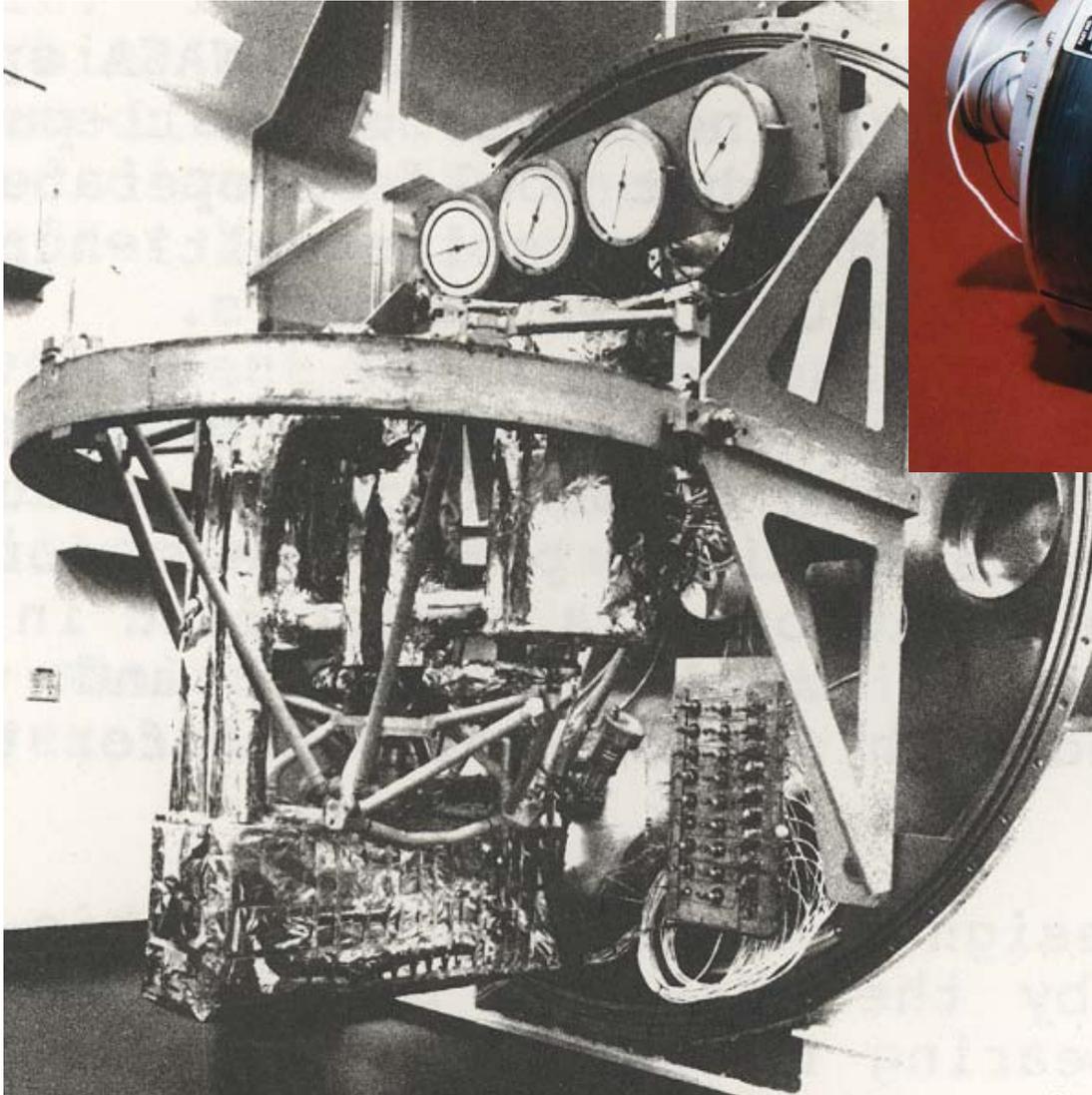


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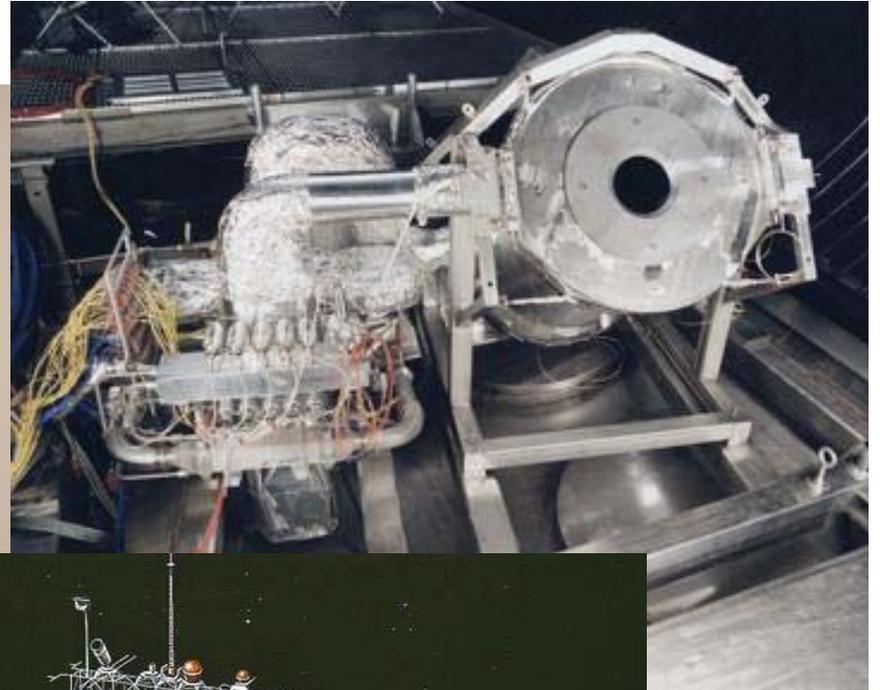
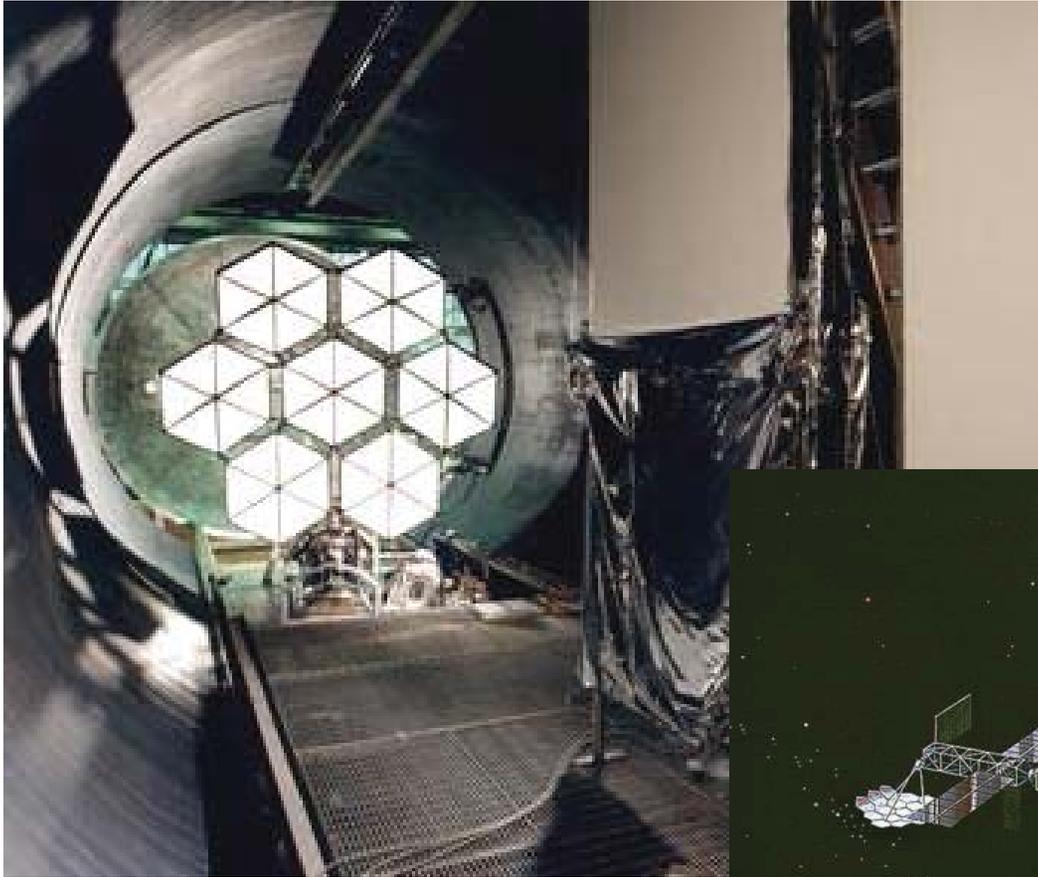
# BRU at Plum Brook



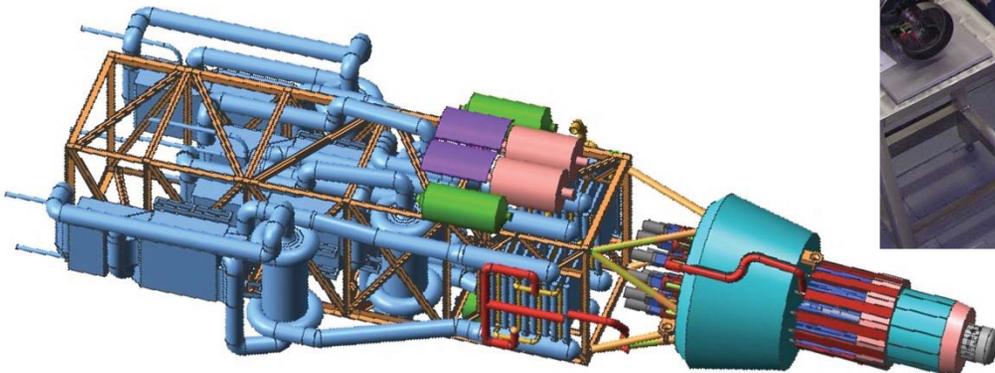
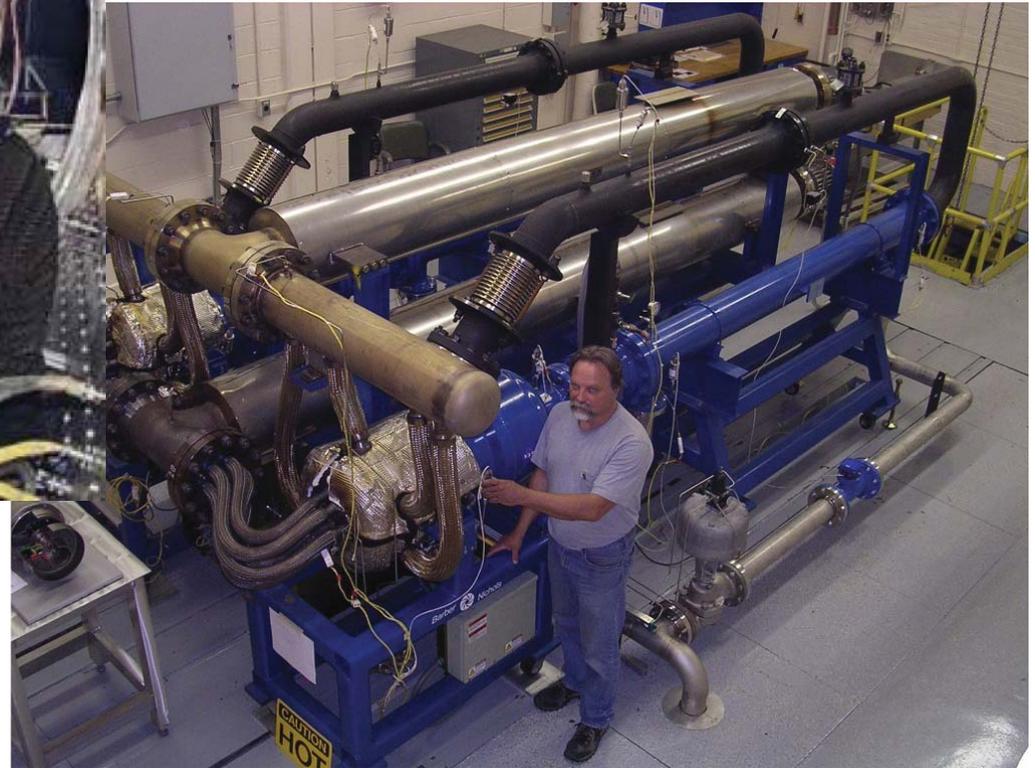
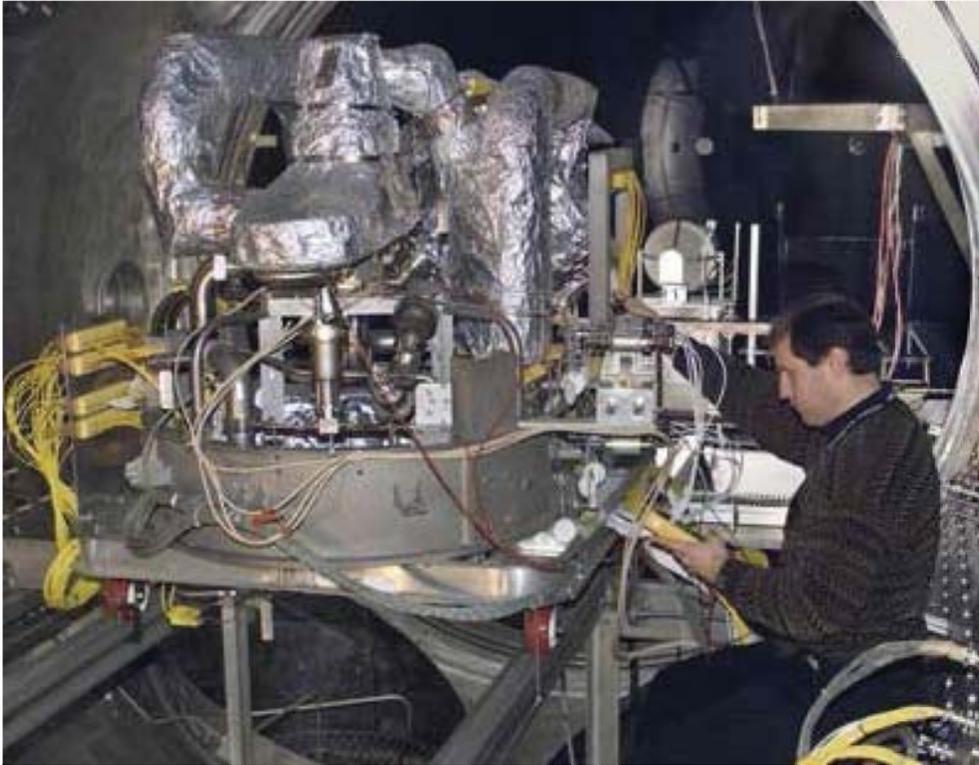
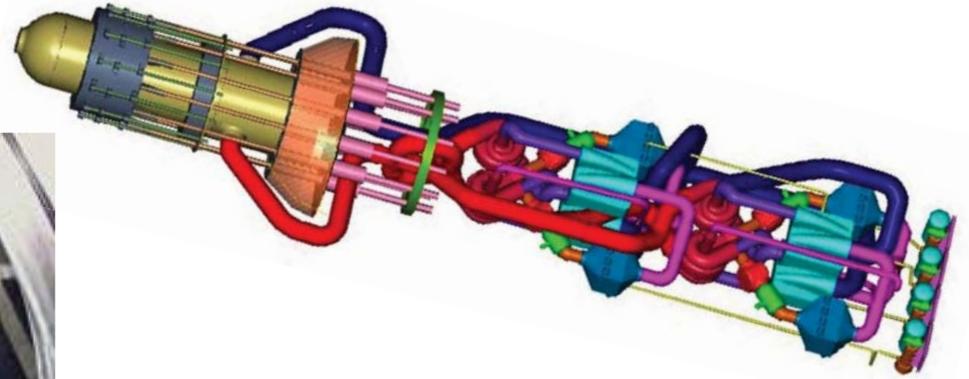
# Mini-BRU



# Solar Dynamic Brayton



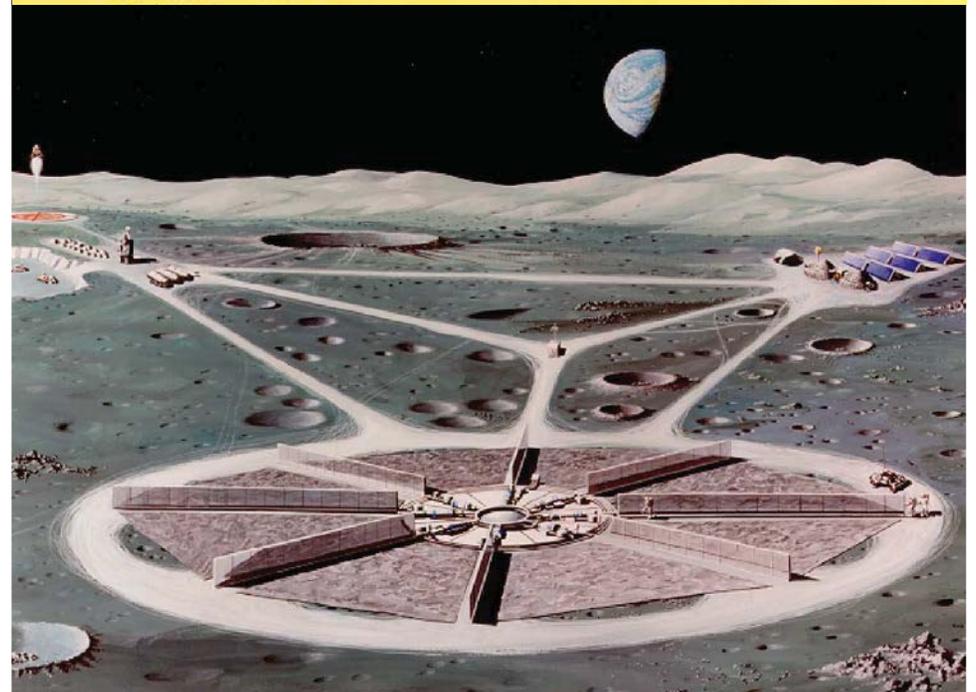
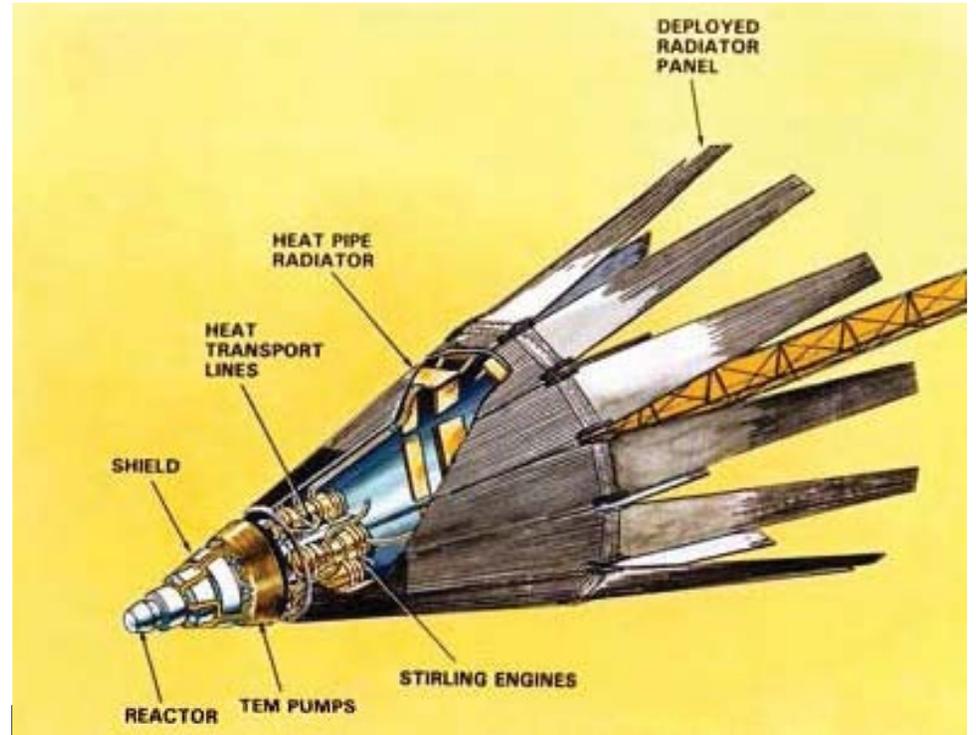
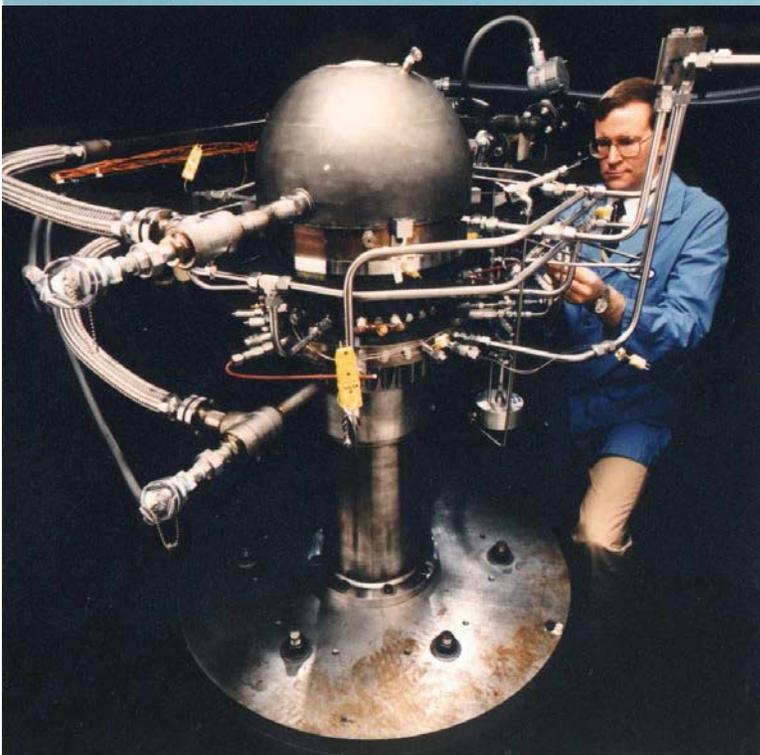
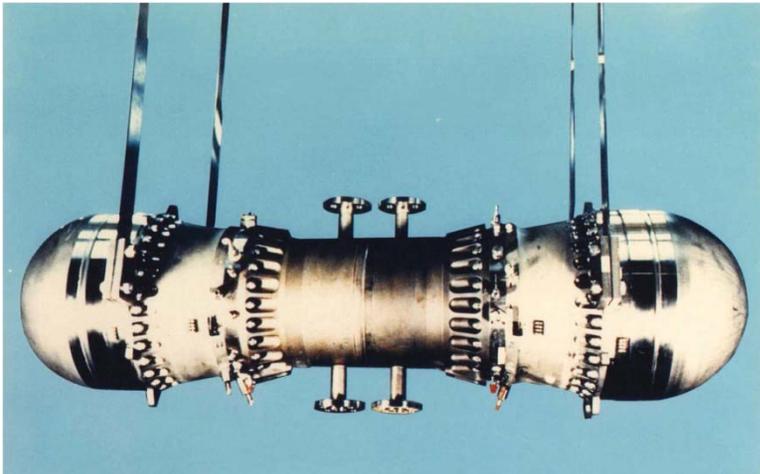
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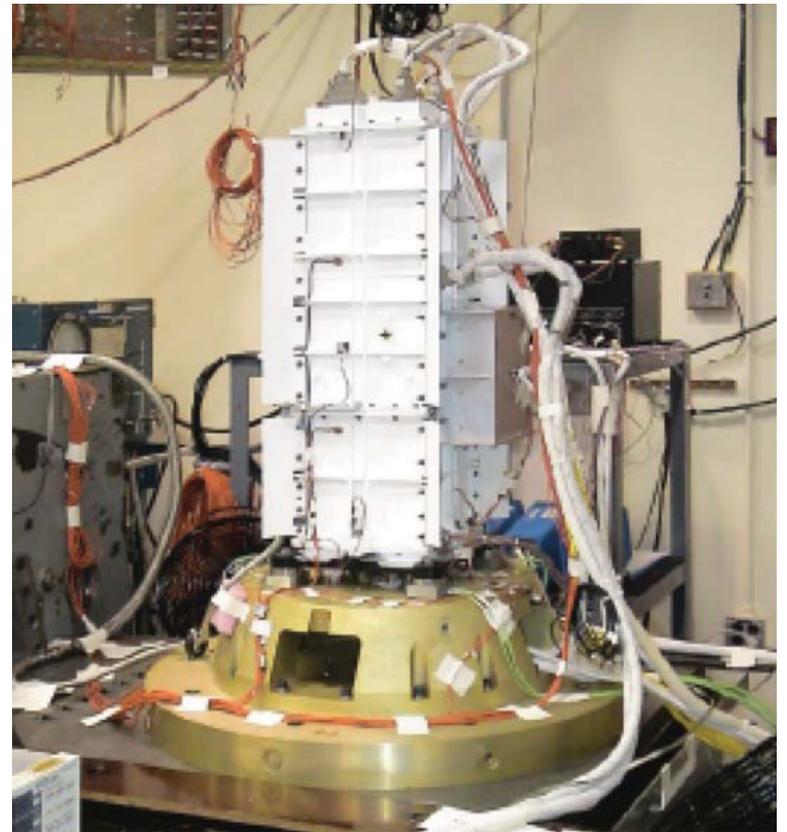
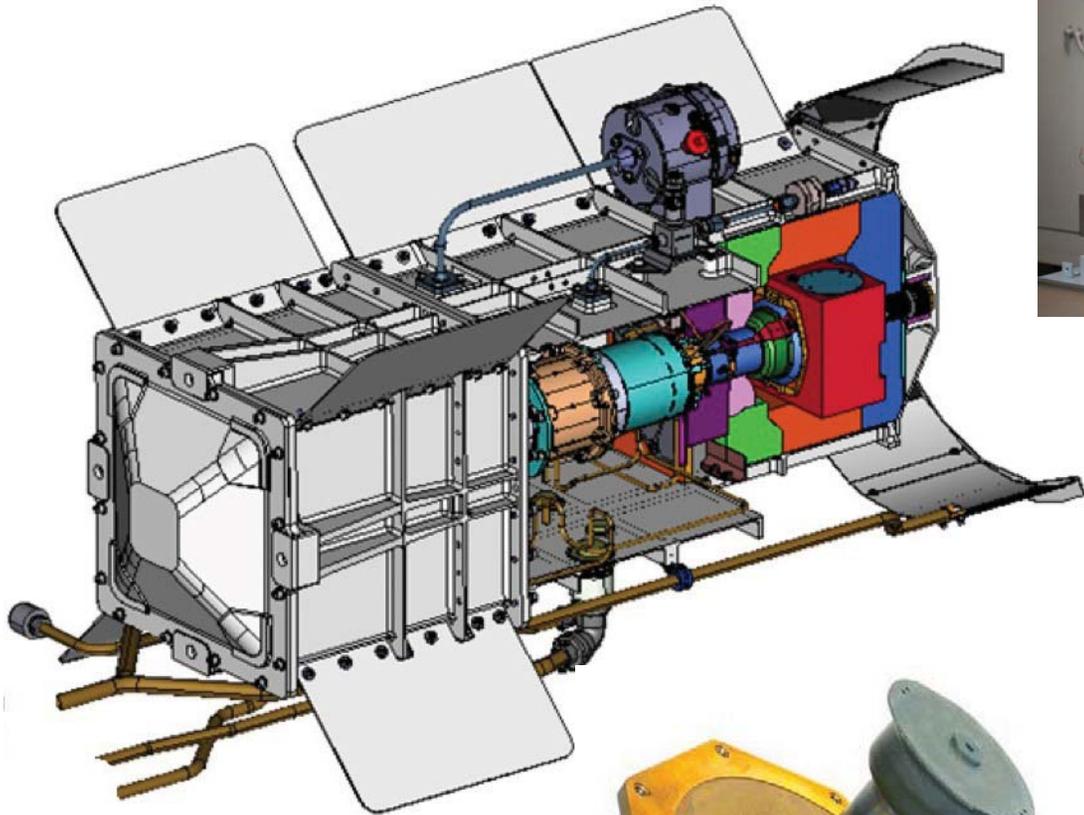
# Early Stirling



# SP-100 Stirling



# RPS Stirling



# Fission Surface Power

