



The Path Forward for Fission Power Systems

- Panel Members:
 - Joe Nainiger: Alphaport Inc., NASA Glenn (Retired)
 - » How To Establish A Mission Pull
 - Sam Bhattacharyya: Renmar Enterprises Inc., Savannah
 River National Lab (Retired), Argonne National Lab (Retired)
 - » What Are The Critical Building Blocks
 - Sterling Bailey: Bailey Engineering and Management Inc.,
 General Electric Astrospace (Retired)
 - » Government And Industry Working Together
 - Abraham Weitzberg: Consultant, Previously Employed by Atomics International, General Electric, SAIC, NUS, Scientech
 - » What Can We Learn From Our History
 - Moderated by Lee Mason, NASA Glenn



Projected Applications for Fission Power Systems



1. Outer Planet Space Science

- 1 to 10 kWe
- 10 yr Life or Greater
- Unmanned, Autonomous
- Low Mass; Competitive with RTGs
- Non-Obtrusive; Shouldn't interfere with Science Objectives

2. Fission Surface Power (FSP)

- 10 to 100 kWe
- 5 to 10 yr Life
- Human-rated
- Robust and Reliable; Mass is Secondary
- Adaptable to Multiple Missions and Environments

3. Nuclear Electric Propulsion (NEP)

- 100 kWe to Several MWe's
- 5 to 15 yr Life
- Cargo or Piloted Missions to Mars
- Low Specific Mass (kg/kW); Must provide benefits over SEP
- Flexible Operations: Thrust, Coast, Science, Standby

