

DOE EPSCoR Relationships Between the Science and the Technology Offices in DOE

Discovery Research Use-inspired Basic Research

Applied Research

Technology Maturation
& Deployment

DOE Office of Science Basic Energy Sciences (BES)

- Basic research for fundamental new understanding (i.e., science grand challenges) on materials or systems that may be only peripherally connected or even unconnected to today's problems in energy technologies
- Development of new tools, techniques, and facilities, including those for advanced modeling and computation
- Basic research for fundamental new understanding, with the goal of addressing short-term showstoppers on real-world applications in the energy technologies

Goal: new knowledge / understanding
Mandate: open-ended
Focus: phenomena
Metric: knowledge generation

DOE Applied Energy Offices EERE, NE, FE, OE, EM, RW, ...

- Research with the goal of meeting *technical milestones*, with emphasis on the development, performance, cost reduction, and durability of materials and components or on efficient processes
- Proof of technology concepts
- Scale-up research
- At-scale demonstration
- Cost reduction
- Prototyping
- Manufacturing R&D
- Deployment support

Goal: practical targets
Mandate: restricted to target
Focus: performance
Metric: milestone achievement