



Microreactor Workshop

August 2020

Microreactor Workshop



It's all about the economics...

- Operational control (remote/autonomous)
 - Design and mission dependent, active in application space
- Instrumentation
 - A number of possibilities, important to harmonize with design and operating objectives
- Considerations for Remote Locations
 - Local labor, terrain/climate considerations, infrastructure
- Advanced Manufacturing Techniques
 - Costs, costs, costs
- Transportability
 - Back-end transport, and front-end criticality controls
- Structural materials
 - Life of plant cores and matching costs with performance
- Regulatory
 - Interesting opportunities and challenges, need to be mindful of not carrying legacy baggage forward

Deeper dive



- Long-lived cores and operating missions of some microreactor designs will benefit from better understanding of some materials ranging from structures to moderators to fuels during decadal time scales
 - Particularly relevant to advanced manufacturing approaches
- Condition-independent construction techniques may help inform design approach
- Cost considerations should drive decision making
- R&D infrastructure should be a user facility
- Keep talking to industry!