



Oak Ridge National Laboratory

Presented to
Lower Mekong Initiative (LMI)
Integrating River Planning for Energy and Environment Technical Workshop

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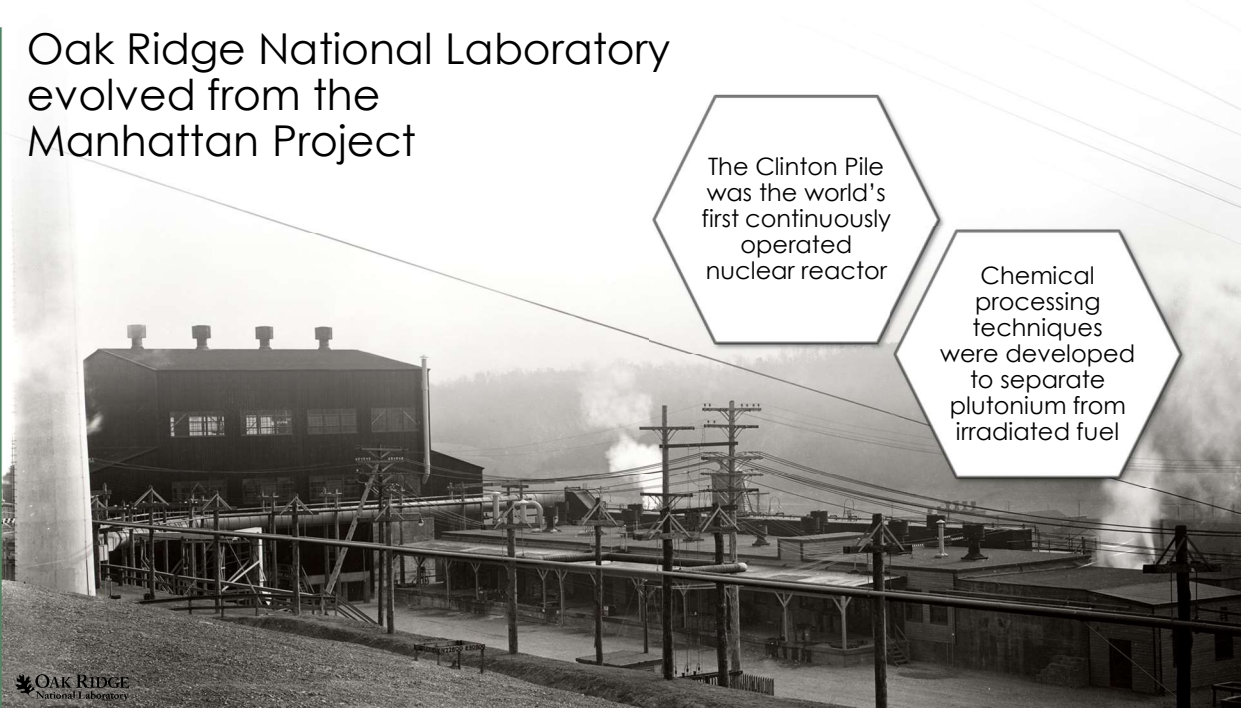
ORNL is managed by UT-Battelle, LLC for the US Department of Energy





1

Oak Ridge National Laboratory evolved from the Manhattan Project



The Clinton Pile was the world's first continuously operated nuclear reactor

Chemical processing techniques were developed to separate plutonium from irradiated fuel



2

ORNL is a leading science and energy laboratory



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3

ORNL Facilities on Your Tour Today

SUMMIT: The World's Most Powerful Computer

Delivering scientific results at the exascale in...

- Materials
- Genomics
- Medicine



Aquatic Ecology Laboratory

Examining the fate and transport of contaminants in streams and rivers, and the interaction among hydropower, water management, and environmental sustainability of waterways and fisheries.



Manufacturing Demonstration Facility

Leveraging ORNL's fundamental materials, computation, and systems research to solve challenges in additive manufacturing with industry partners and universities.



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Background & Workshop Goals

Background: Careful water management is a shared responsibility among the countries within the region and is critical to the region's energy stability, economic development, environmental sustainability, and geopolitical relations.

Objective: Improve technical capacity and/or political authority to inform water management decision-making.

Structure: Assemble an expert team to share ~100 years of experience in hydropower, and rivers and reservoirs multi function water management.

Outcome: Initial recommendations about tools, methods, and guidelines that are used in the US and are adaptable to each country's integrated river system for sustainable energy development in the Lower Mekong region.

Welcome!

