

Army Policy Considerations for Green Sustainable Remediation

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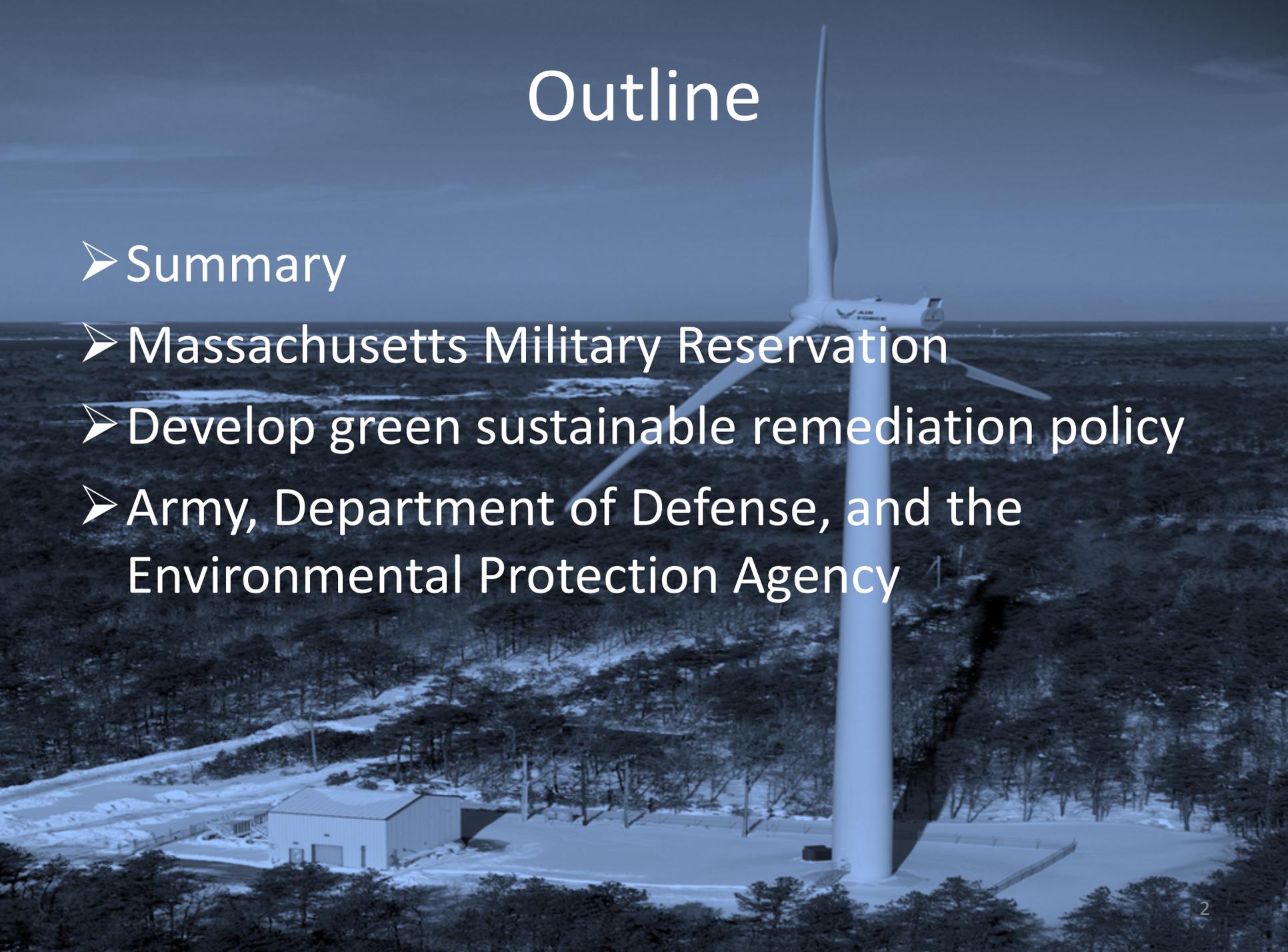
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Outline



- Summary
- Massachusetts Military Reservation
- Develop green sustainable remediation policy
- Army, Department of Defense, and the Environmental Protection Agency



Summary



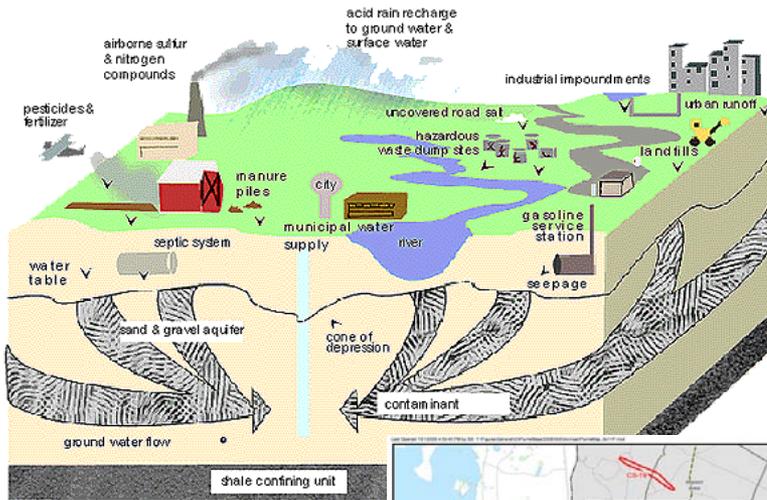
- Department of Defense green sustainable remediation policy
- Policy needed
 - ❖ How use of renewable energy in green sustainable remediation contributes to Army energy goals
 - ❖ Affects on the Army cleanup program



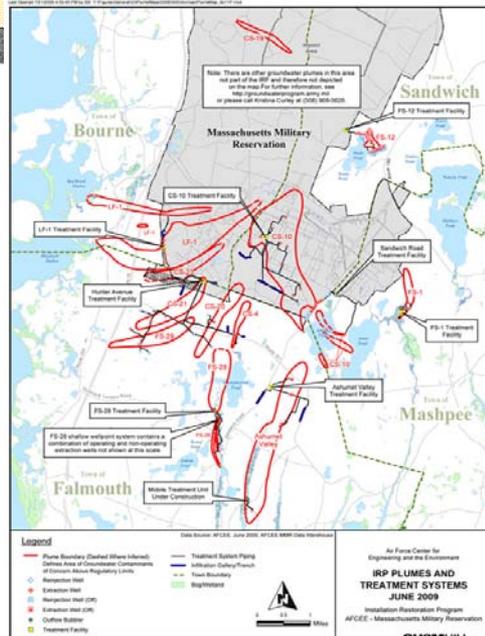
10-kW turbine for ground water circulation, reducing grid electricity consumption by 26% at former Nebraska ordnance plant



Massachusetts Military Reservation



- Renewable energy project identified issues that require policy
- Identify Army's desired end state for renewable energy
- How to manage Renewable Energy Certificates
- Identify process to allow funding from the sale of excess energy





Policy Development: Pilot Study



- Test bed for renewable energy policy
- Conduct at active programs with large energy requirements
- Determine best way to manage renewable energy attributes
- Address financial benefits
- Standardize management





Policy Development



- Formalized remediation system optimization process
 - Consider financial incentives similar to energy efficiencies
- Headquarters approval of all groundwater pump and treatment remedy selections
- Green sustainable remediation metrics





Policy Development



- Green sustainable remediation and Superfund Green Remediation Strategy
- Passive vs. active remedy selection
- DoD/Army dialog with USEPA
 - ❖ Active vs. passive remedy vs. future land use
 - ❖ Define a decision point or balance



Recommendations for the Army



- Issue a formal policy for green sustainable remediation
- Capitalize and incentivize remediation system optimization/practices
- Integrate green principles into remedy selection and future land use
- Integrate use of renewable energy for current and future cleanups



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