

Water Prize Competition Center

Share your expertise and ideas!

You can help solve some of the most critical water and water-related resource problems facing our Nation!

Ecosystem Restoration



The protection and restoration of aquatic and riparian environments is vital to ensuring that our watersheds are healthy and able to continue providing the water supplies that can meet the multitude of competing uses of water in the arid Western U.S.

We are interested in new and improved technologies and better ways to:

- Track and monitor fish populations
- Facilitate fish passage at dams, migration through reservoirs, and screening at withdrawal structures
- Manage stream hydrology below dams for fish and wildlife
- Improve habitat conditions for targeted species
- Manage stream channel hydraulic and sediment conditions
- Manage river and reservoir temperatures
- Increase desirable riparian vegetation
- Reduce the spread of invasive species that can impact water deliveries
- Protect threatened and endangered fishes

Water Availability



Water availability is critical to meeting the needs of a growing population and economy. Water managers face significant challenges in meeting current and future water demands for agriculture, municipal, industrial, Native American, rural, recreation, power generation, and ecosystem needs.

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Water Availability

We are interested in new and improved technologies and better ways to:

- Conserve existing water supplies
- Develop new sources of water supplies through desalination, water recycling, and creative application of traditional and non-traditional methods
- Monitor and forecast water supplies and demands
- Optimally manage and operate water storage and delivery systems
- Use social and institutional methods to cultivate long-term solutions
- Conjunctively manage ground and surface waters

Infrastructure Sustainability



A safe, well-maintained, and reliable inventory of dams, pipelines, hydropower generation facilities, canals, and levees is key to making water available to meet the needs of the Western U.S. and our Nation as a whole.

We are interested in new and improved technologies and better ways to:

- Effectively and affordably operate and maintain water and hydropower infrastructure
- Repair and replace aging infrastructure
- Monitor and assess the condition of mechanical and electrical equipment, and structures
- Extend the serviceable lives of existing infrastructure and reservoirs
- Optimize hydropower generation
- Detect and heal internal erosion in embankment dams and canal and levee embankments
- Prevent and detect corrosion

Our Federal Partners Include:



Federal collaboration enables agencies to leverage Federal capabilities, catalyze interagency working relationships, better define and solve joint problems, avoid duplication, and find solutions that have a broader impact across the mission of multiple Federal agencies, the stakeholders we collectively serve, and overall public good.

Look for our prize competitions to be posted on www.Challenge.gov

www.usbr.gov/research/challenges

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