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## USAID ASSISTANCE FOR SUSTAINABLE WATER MANAGEMENT IN ARMENIA

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**Armenia is an upstream country in  
Kura –Aras River Basin**





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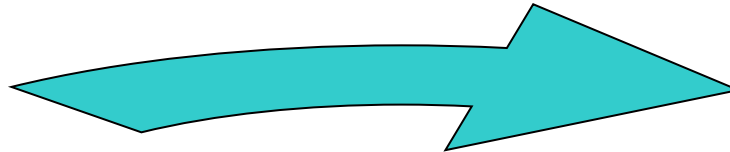
**Environment**

**Key factors**

**Economy**

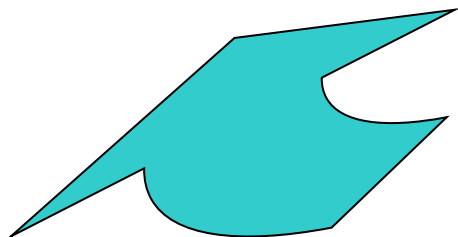
**Social & Health**

**Why water?**

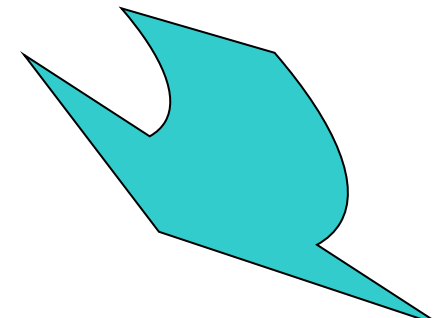


**Regional Cooperation**

**Political will, Support for Government**



**Inefficient use of public resources**





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## NEED FOR WATER REFORMS

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- Adequate management
- Legal framework and institutional settings
- Incentives for water allocation, protection and planning
- Delivery of water services (irrigation, municipal) in urgent need of improvement



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## WATER RESOURCES OF ARMENIA

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- Faces local water shortages
- Overall sufficient water resources to serve its current and foreseeable needs
- Significant groundwater resources
- Water quality



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## USAID Assistance in Water Sector

2000 - 2004  
Sustainable water  
Management to  
Enhance Quality  
(ARD)

2000 – 2004  
Water  
Management in  
South Caucasus  
(DAI)

2001 – 2005  
Financial Audit of  
Armenia Water  
Co  
(GTA)

2003 – 2005  
Water Metering,  
Billing and  
Collection  
(UI)

2005-2009  
Institutional and Regulatory  
Strengthening of Water  
Management in Armenia (PA)

2005-2008  
Transboundary Water  
Resources Management  
(PA)

2007-2008  
Rehabilitation of Water  
Supply System of  
Artashat Town and 27  
villages  
(FAR)

2011-2015  
Clean Energy and Water  
(ME&A)



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## MAIN OBJECTIVES OF USAID'S CONTINUED ASSISTANCE

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To support:

- Enforcement of water legislation
- Institutional capacity building
- Assist in integrated basin management
- Transparency in the sector
- Water resources monitoring, water use permits, and compliance assurance,
- National water planning and National Water Program
- Dialogue between riparian countries



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## SECTOR SUCCESSES WITH USAID ASSISTANCE

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### Key Reforms Enacted

- National Water Code and Policy
- Water Resource Management Agency
- Public Service Regulatory Commission
- Five Basin Management Organizations
- Rehabilitated hydro posts
- Water quality monitoring laboratory upgraded
- Un-Bundled and Clarified Functions
- Trans-boundary cooperation initiated
- Helping water companies to achieve sustainability



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## SECTOR SUCCESSES WITH USAID ASSISTANCE

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- Water resources monitoring, water use permitting, & the State Water Cadastre
- The monitoring of Armenia's groundwater resources after 12 years
- The replication of these successes by Georgia and Azerbaijan has begun





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## CURRENT NEEDS FOR WATER SECTOR

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- Further enforcement of legislation
- Inconsistencies in regulatory environment
- Slow decentralization
- Funding and capacity for water monitoring are limited
- National water program financial sustainability & implementation issue
- Weak monitoring and enforcement



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## CURRENT NEEDS FOR WATER SECTOR

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- Little or No Wastewater Treatment
- Intermittent Water Supply
- Supply Quality Compromised
- Financial State of Utilities Poor, Inability to Recover Costs through Tariffs



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## KEY BOTTLENECKS IN WATER RESOURCES MANAGEMENT

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Fragmentation, duplication, and little coordination and data exchange.

Addressed by GOAM & USAID through:

- development of State Water Cadastre
- promoting decentralization and consolidation
- updating of laws and implementing regulations



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## KEY BOTTLENECKS IN WATER RESOURCES MANAGEMENT

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Poor financing of basic water resources management functions.

Addressed by USAID through:

- demonstrating the potential revenues
- Inadequate knowledge base. Addressed by USAID through:
  - technical and management training, and updating of Soviet era methods, procedures and tools



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## MAIN RESULTS BY SEPTEMBER 2008 AND FUTURE NEEDS

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## MAIN RESULTS BY 2011 with USAID's SUPPORT

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- Legal framework of the water sector that is harmonized with laws of other sectors
- A basic capacity is in place within BMO
- A basic capacity is in place within the PSRC for the regulation of the municipal water sub-sector
- Surface water monitoring is re-vitalized in the Southern Basin, Central Laboratory is updated, basic groundwater monitoring is re-established throughout the country
- A National Water Program is being implemented
- The State Water Cadastre is operational
- Progress in the harmonization of legal, institutional and technical frameworks in the South Caucasus



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## CEW Program: Goals and Objectives

The goal of the Program is to introduce sustainable approaches to water, clean energy, and climate change management.

Main objectives include:

- Build capacity in river basin management planning
- Implement energy and water projects in local communities to demonstrate best practices and new technologies
- Improve and strengthen hydropower and water regulations
- Help coordinate water programs among international donors.

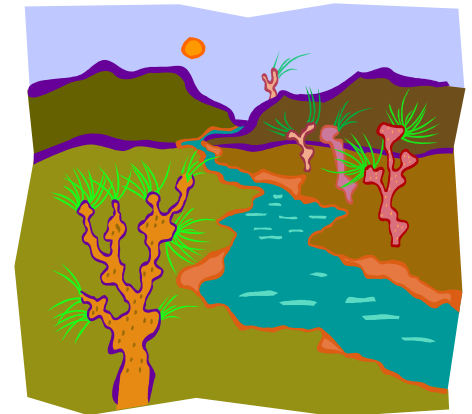


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## Major tasks:

- River basin planning: capacity building
- Demonstration projects for clean energy and water
- Improve water legislation and regulations
- Donor collaboration and communications





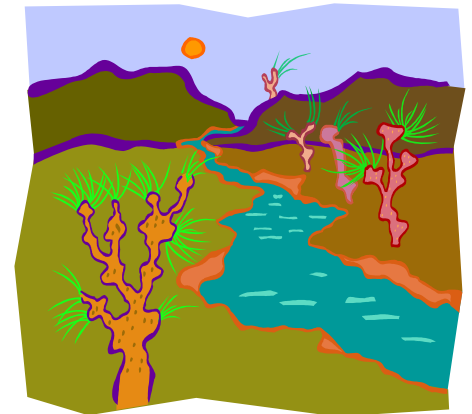


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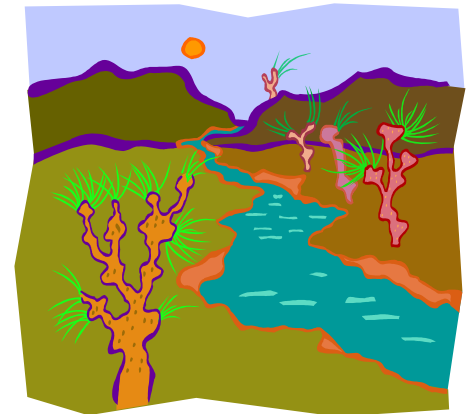


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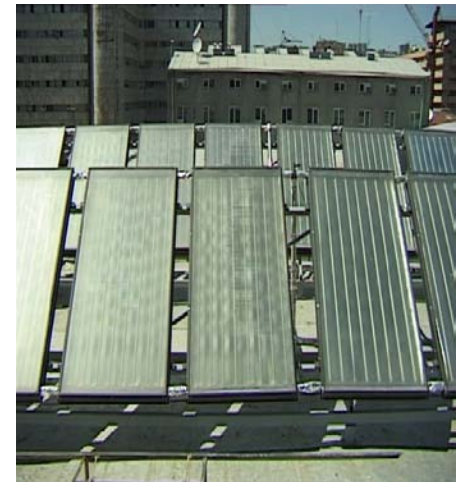


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## Community Demonstration Projects

- Small-scale infrastructure for energy and water
- Work with partners and build on earlier work
- Innovation in new technologies and best practices
- Water supply
- Energy efficiency
- Energy production
- Climate change adaptation



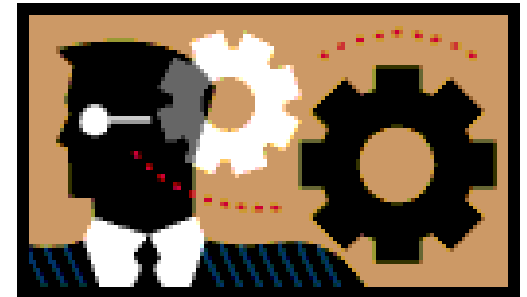


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## Next steps

- Conduct River Basin Management Plans
- Implement demonstration projects
- Work with local communities
- Share technical tools and expertise
- Training and capacity building
- Monitor progress





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**Thank you!**

