



Financial and Technical Assistance for Green Projects

**Water Infrastructure Finance
Authority of Arizona**

WIFA

Water Infrastructure Finance Authority

Maintain and improve water quality in Arizona by providing financial assistance and technical assistance for basic water infrastructure.

**Design, Improvement,
Construction, Acquisition
of
Drinking Water, Wastewater, Water
Reclamation and other
water quality projects**

Project Examples

Traditional Projects

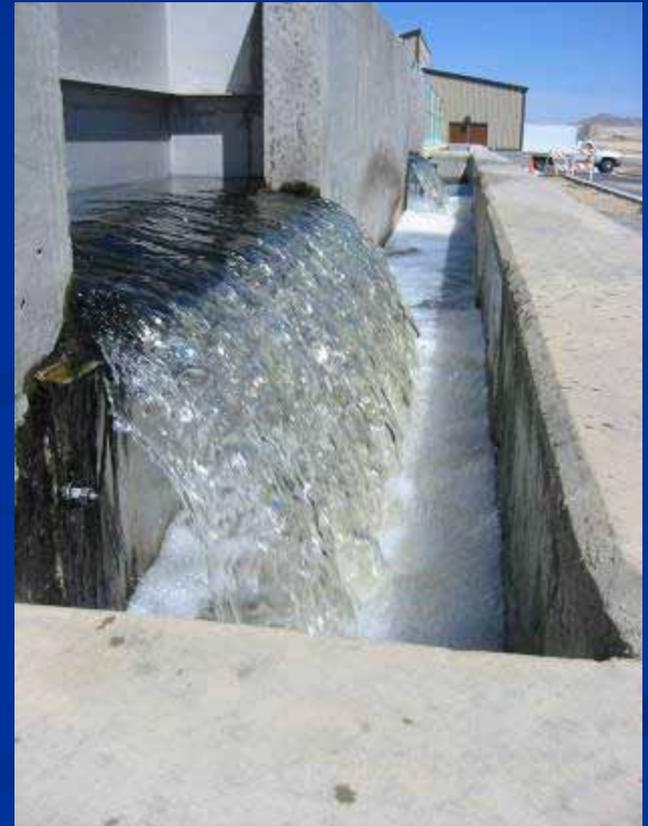
- ▣ Rehab/replacement of water distribution lines
- ▣ Arsenic treatment systems
- ▣ Wastewater treatment plant upgrades

Green Projects

- ▣ Energy audits
- ▣ Solar power for water and wastewater facilities
- ▣ Water reclamation

What makes WIFA a good funding option?

- n Clean Water and Drinking Water Revolving Funds
- n AAA credit rating = low-interest financial assistance
- n No application fees or closing costs
- n Grants and free Technical Assistance Programs



ARRA Financing

- n Allocated \$82 million of federal Recovery Act money
- n Combined with our other funding sources - \$183 million of projects on the ground
 - n **\$24 million funded Green Projects**



Project Environmental Benefits

Standard

Environmental Benefits

- Protects/improves water quality
- Addresses watershed plan
- Corrects non-compliance
- Protects source water

"New" Green Projects

- Water efficiency
- Energy efficiency

20% of federal funding

Green Projects – Energy

Energy efficiency

- n Clean/alternative energy
- n Energy efficient retrofits and upgrades to pumps and treatment processes
- n Energy audits

Need to demonstrate at least a 20% savings in energy

Green Projects - Water

Water efficiency, reuse and conservation

- n Water reclamation, recycling, reuse
- n Gray water recycling
- n Leak detection
- n Replacement or rehabilitation of distribution lines to correct water loss
- n Water meters, automated meter reading systems
- n Green stormwater infrastructure (e.g. green roofs, stormwater wetlands)

Eligible applicants

n Drinking Water

- n Public water systems owned by political subdivisions (cities, towns, districts and tribal entities) and private ACC-regulated systems

n Clean Water

- n Restricted to various types of political subdivisions, including tribal entities

DW Technical
Assistance

Planning and
Design Grants

Design and
Construction
Loans

Assistance Programs

FREE



DW Technical Assistance

Planning and Design Grants

Design and Construction Loans

ADEQ Capacity Development Program

Small drinking water systems ($\leq 10,000$ people) receive:

- System Evaluation
- Operations and Maintenance Package
- Energy Audit

FREE



DW Technical Assistance

Energy Audit

Planning and Design Grants

Design and Construction Loans

- n Facility load
- n Equipment condition
- n Energy consumption
- n O&M procedures
- n Historical energy use
- n Recommendations

DW Technical Assistance

Planning and Design Grants

Design and Construction Loans

For systems lacking technical staff

- n Plan or design an infrastructure project
- n Next cycle begins this spring
- n Local match may be waived/reduced for green

DW Technical Assistance

Planning and Design Grants

Design and Construction Loans

Planning

- n Rate Studies/Financial Audits
- n Capital Improvement Plans
- n Feasibility Studies

Pre-design/Design

- n Engineering plans and specifications
- n Environmental Assessments
- n Preliminary Engineering Reports

DW Technical Assistance

Planning and Design Grants

Design and Construction Loans

Green grant projects

- n Energy Audits
- n Solar design
- n Design projects to increase energy efficiency and reduce water loss
- n Feasibility study of bioretention basins

DW Technical Assistance

Planning and Design Grants

Design and Construction Loans

Loans for Project Construction

- WIFA offers below market interest rates
 - 3.08% average for governmental
 - 4.97% average for non-governmental
- No application fees or closing costs

DW Technical Assistance

Planning and Design Grants

Design and Construction Loans



Two-step loan application process

1. Priority List application (online)
2. Project Finance Application based on "readiness to proceed:"
 - n Debt authorized
 - n Project designed
 - n Plans approved
 - n Bids solicited

DW Technical Assistance

Planning and Design Grants

Design and Construction Loans



Green Construction Loans

- n Automatic meter reading systems
- n SCADA systems
- n Variable frequency drives
- n Solar panel installation



Peoria Green Project

- n Solar photovoltaic panels at Beardsley Water Reclamation Facility
- n 26% of total power for operations building

Grand Opening and Solar Informational Fair

Saturday, March 13





Payson Green Projects

- Pipeline repair to reduce water loss
- Hydroelectric design

The logo for the Water Infrastructure Finance Authority (WIFA) features the acronym "WIFA" in white capital letters inside a white rectangular box. This box is set against a dark blue, irregular, brushstroke-like background.

Water Infrastructure Finance Authority

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ADEQ Capacity Development

(free DW Technical Assistance, including energy audits)

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