

Feasibility Study Grants Funding Recommendations

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Funding Purpose

Purpose: Provide funding to evaluate feasibility of a water conservation, reuse, or storage project

Deadline: Fall each year (October 15, 2021)

Funding Decision: Spring each year (June 2021)



Conservation



Reuse




Storage

Purpose of Feasibility Studies



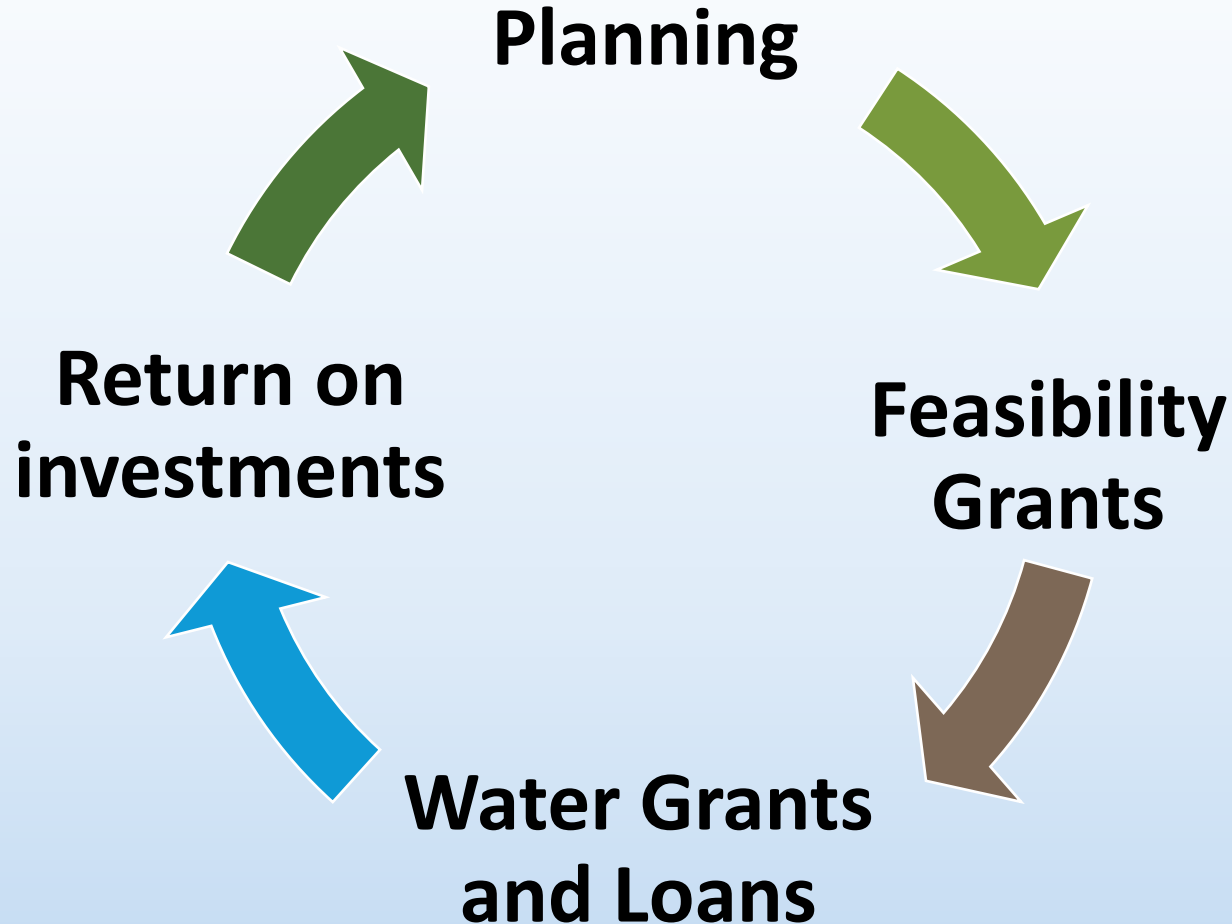
**Investigate to reach the
feasibility study goal**



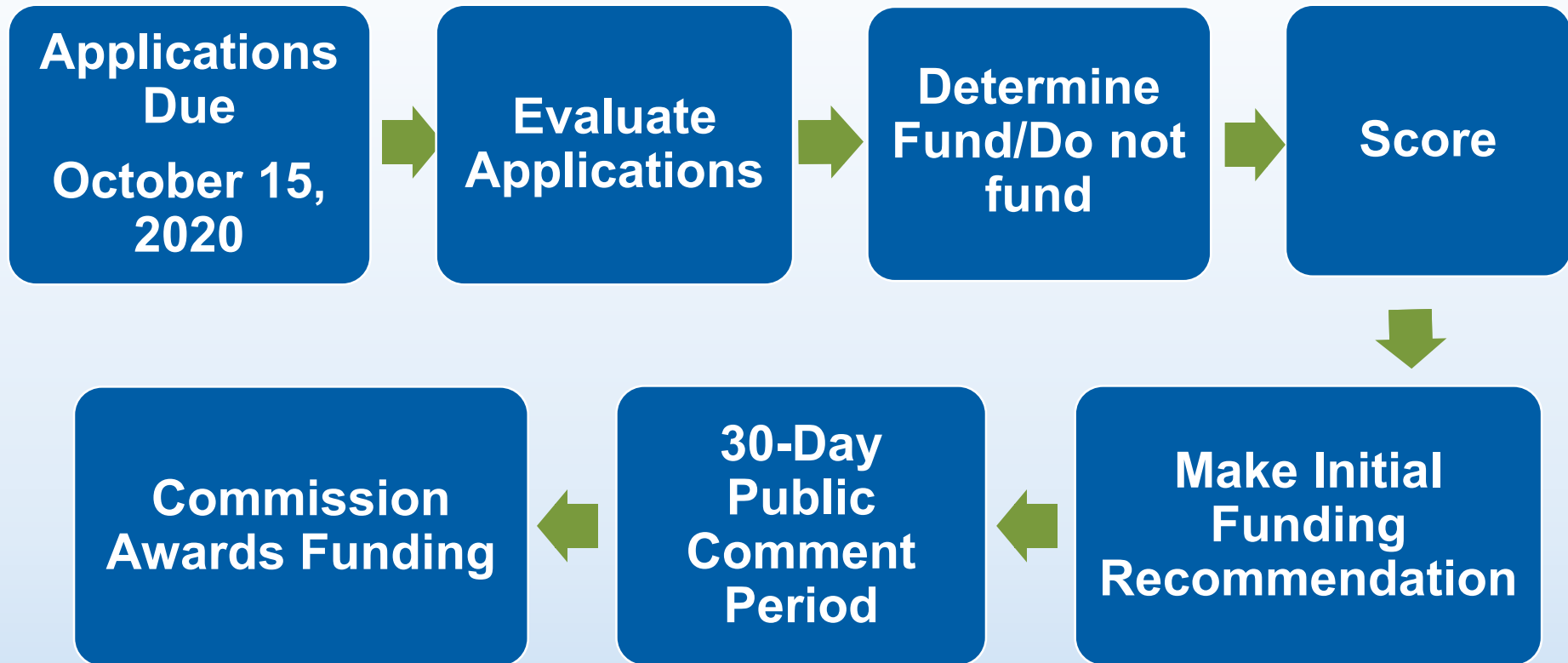
**Determine if a project is
worth pursuing**



Prepare for implementation



Application Review Process



Application Evaluation

Application Review Team makes a fund/do not fund vote, considering:

- Is the proposal a feasibility study?
- Is the proposal ready for funding?
 - Missing elements
 - Insufficient details
- Is water available? (or, will this question be evaluated in the study?)

Application Evaluation

- Projects that receive a “fund” vote are scored on:
 - Study goal
 - Water need
 - Community benefit
 - Technical planning and preparedness
- Projects are ranked by score and recommended for funding based on fund availability

2020-21 Funding Cycle

- Approximately \$1.2 million available in funding
- Nine applications received
- Requesting \$988,127 in funding
- 4 conservation studies
- 3 below-ground storage studies
- 2 above-ground storage studies

Applications Received

Study Name	Project Type	Funding Requested
Dry River Canyon Water Conservation Study	Conservation	\$27,760
Fifteenmile Watershed Managed Underground Storage Facilities Feasibility Study Phase II	Below-Ground Storage	\$185,000
Klamath Irrigation District C-G Drop Hydropower Feasibility Study	Conservation	\$80,000
Silverton / Mt. Angel ASR Feasibility Study	Below-ground Storage	\$15,000
Smith Rock-King Way Water Conservation Feasibility Study	Conservation	\$171,072

Applications Received (continued)

Study Name	Project Type	Funding Requested
Upper Grande Ronde River Watershed Storage Feasibility Study	Above-ground Storage	\$114,000
Upper John Day ASR Feasibility Study	Below-ground Storage	\$293,895
Upper Klamath Lake Water Storage	Above-Ground Storage	\$26,400
Walla Walla River Irrigation District Water Conservation Study	Conservation	\$75,000
	Total	\$988,127

Recommended for Funding

Study Name	Funding Recommendation
Dry River Canyon Water Conservation Study	\$27,760
Fifteenmile Watershed Managed Underground Storage Facilities Feasibility Study Phase II	\$185,000
Silverton / Mt. Angel ASR Feasibility Study	\$15,000
Smith Rock-King Way Water Conservation Feasibility Study	\$171,072
Upper Grande Ronde River Watershed Storage Feasibility Study	\$114,000
Upper John Day ASR Feasibility Study	\$293,895
Upper Klamath Lake Water Storage	\$26,400
Walla Walla River Irrigation District Water Conservation Study	\$75,000
TOTAL	\$908,127

Not Recommended for Funding

Study Name	Funding Requested
Klamath Irrigation District C-G Drop Hydropower Feasibility Study	\$80,000

Klamath Irrigation District C-G Drop Hydropower Feasibility Study

- **Study goal** - Produce a hydropower structure design for the C-G Drop in Klamath Irrigation District
- **Proposal** - Identify and evaluate opportunities to modernize the District's infrastructure, including:
 - High-level engineering designs,
 - Cost estimates,
 - Projected water savings,
 - Projected hydroelectric power generation and energy conservation potential

Review Team comments

- The application, as submitted, appears to focus primarily on an assessment of hydropower.
- The proposed tasks were not sufficient to demonstrate that the study would investigate water conservation.
- Recommendation that the applicant
 - Seek funding from a source focused on energy savings OR
 - Revise the study to include more water conservation work and reapply

Public Comments

- Department hosted 30-day public comment period March 16 – April 15, 2021
- No public comments were received

Tribal Comments Received

- Comments were received from the Confederated Tribes of the Umatilla Indian Reservation on:
 - Upper Grand Ronde River Watershed Storage Feasibility Study,
 - Upper John Day Aquifer Storage and Recovery Feasibility Study, and
 - Walla Walla Irrigation District Water Conservation Study.
- Comments were provided to the Application Review Team

Alternatives

1. Adopt the staff funding recommendations contained in Table 1, Section IV of this report.
2. Adopt modified funding recommendations.
3. Direct the Department to further evaluate the applications and return with a revised funding proposal.

Recommendation

- 1. Adopt the staff funding recommendations contained in Table 1, Section IV of this report.**
2. Adopt modified funding recommendations.
3. Direct the Department to further evaluate the applications and return with a revised funding proposal.

OREGON



WATER RESOURCES
DEPARTMENT

Thank you.
Questions?



Extra Slides – to use if needed



Dry River Canyon Water Conservation Study

Study Type

Conservation

Applicant

Deschutes River Conservancy and the Central Oregon Irrigation District

Funding request

\$27,760

Total cost

\$55,520

County

Deschutes and Crook

Highlights

Assess primary irrigation water runoff points and explore reducing water waste by these actions:

- Review and evaluate existing data to predict primary points of discharge
- Collect data on these assumptions via a field investigation
- Evaluate discharge reduction strategies



Fifteenmile Watershed Managed Underground Storage Study – PH II

Study Type

Below ground storage

Applicant

Wasco County Soil Water Conservation District

Funding request

\$185,000

Total cost

\$370,000

County

Wasco

Highlights

- Assess the feasibility of treating target volumes of source water for subsurface storage
 - Examine models for governing and operating a subsurface storage system that would ensure long-term sustainability
-



Klamath Irrigation District C-G Drop Hydropower Feasibility Study

Study Type

Conservation

Applicant

Klamath Irrigation District

Funding request

\$80,000

Total cost

\$160,000

County

Klamath

Highlights

- Identify and evaluate opportunities to modernize the District's infrastructure
 - Examine and develop high-level engineering designs, cost estimates, projected water savings, and projected hydroelectric power generation and energy conservation
-



Silverton / Mt. Angel Aquifer Storage and Recovery

Study Type	Below ground storage
Applicant	City of Silverton
Funding request	\$15,000
Total cost	\$30,000
County	Marion
Highlights	
	<ul style="list-style-type: none">• Identify possible location(s) of a viable aquifer for Aquifer Storage and Recovery (ASR)• Determine compatibility of ASR with the Cities' respective water systems



Smith Rock-King Way Water Conservation Feasibility Study

Study Type	Conservation
Applicant	Deschutes River Conservancy and the Central Oregon Irrigation District
Funding request	\$171,072
Total cost	\$375,712
County	Deschutes
Highlights	<ul style="list-style-type: none">• Create a toolbox to assist with prioritization and implementation of on-farm water conservation projects• Determine which actions, or combinations, result in the greatest water conservation benefit



Upper Grande Ronde River Watershed Storage Feasibility Study

Study Type	Above-ground storage
Applicant	Union County
Funding request	\$114,000
Total cost	\$228,000
County	Union
Highlights	

Assess above ground storage options:

- Review the watershed and site suitability to determine potential locations
 - Evaluate instream flow needs in the reaches most likely to be impacted by a storage project
-



Upper John Day Aquifer Storage and Recovery Feasibility Study

Study Type	Below ground storage
Applicant	Grant Soil and Water Conservation District
Funding request	\$293,895
Total cost	\$589,645
County	Grant
Highlights	

Assess, prioritize, and locate groundwater aquifer storage and recovery projects:

- Conduct an Airborne Electromagnetic Method survey
- Engage landowners and assess interest
- Develop conceptual design
- Develop ranking system of potential projects



Upper Klamath Lake Water Storage Study

Study Type	Below ground storage
Applicant	Modoc Irrigation District
Funding request	\$26,400
Total cost	\$58,600
County	Klamath
Highlights	

Evaluate the feasibility of building one or more above-ground water storage reservoirs

- Identify potential sites and sizes for reservoirs
 - Estimate cost and regulatory requirements
 - Assess environmental impacts
-



Walla Walla River Irrigation District Water Conservation Study

Study Type	Conservation
Applicant	Farmers Conservation Alliance
Funding request	\$75,000
Total cost	\$170,000
County	Umatilla
Highlights	<ul style="list-style-type: none">• Identify and evaluate opportunities to modernize the District's infrastructure• Produce a comprehensive System Improvement Plan with associated high-level engineering designs, cost estimates, projected water savings, and projected hydroelectric power generation and energy conservation potentials