



**CITY COUNCIL STUDY SESSION
DRAFT MINUTES**

Monday, January 3, 2022

Held Electronically

View on Channel 9 or Channels 180 and 181 (for Charter Communications customers)
or live stream via rvtv.sou.edu select RVTV Prime.

Written and oral testimony will be accepted for public input. For written testimony, email public-testimony@ashland.or.us using the subject line: Ashland City Council Public Testimony.

For oral testimony, fill out a Speaker Request Form at ashland.or.us/speakerrequest and return to the City Recorder. The deadline for submitting written testimony or speaker request forms will be on Monday, January 3rd at 10 a.m. and must comply with Council Rules to be accepted.

Mayor Akins called the Study Session to order at 5:30 p.m.

Councilors' Graham, Hyatt, Moran, DuQuenne, Seffinger and Jensen were present.

1. Public Input (15 minutes, maximum)

Pete Jorgensen – Ashland – Spoke that he is a member of the Ashland Solar COOP. He expressed solar support at the Ashland Wastewater Treatment Plant.

2. Water System Project Updates

Public Input:

Louise Shawkat – Ashland - Spoke that she is pleased to see the CEAP Goals and to keep the water treatment plant functioning.

Larry Cooper – Ashland – Spoke regarding the Wastewater Treatment Plant. He spoke suggesting reevaluating the wastewater plant and long-range benefits.

Mayor Akins introduced City Manager Joe Lessard. Lessard introduced Public Works Director Scott Fleury.

Mr. Fleury introduced Water Treatment Technical Director Pierre Kwan and Senior Project Manager Kevin Caldwell.

Mr. Fleury went over a PowerPoint Presentation (*see attached*).

Items discussed were:

- Water Treatment Plant Update
- Plant Sizing and Optimization
- Envision Program
- Envision Program – Solar
- Envision Program – Additional Considerations
- Water Treatment Plant Funding

- Water Treatment Plant Update
- Council Questions – HDR Memo

Council discussed options.

Council directed Staff to move forward to continue maintaining the Gold Status.

Council discussed the financing for this project.

Graham/Jensen moved that the Council direct Staff to move forward with the existing envision components as they have laid them out here to get us to the Gold Status; that they investigate the possibilities to work towards the most efficient 200-Kilowatt system; and investigate the small amount of battery storage needed to build resilience at the site.

Discussion: Graham spoke that we are at an era of climate change. She spoke to the importance of infrastructure changes. She spoke that this will help move forward with CEAP Goals. Moran spoke regarding budget. Graham gave clarification and spoke that she is asking Staff to keep working on the most cost-efficient way to get to the 200-kilowatt system. Hyatt spoke in support of the motion. Seffinger spoke regarding the storage aspect of this issue. **Roll Call Vote:**

Jensen, Seffinger, Graham & Hyatt: YES. DuQuenne & Moran: NO. Motion passes 4-2.

3. Enterprise System Budget Presentation

Fleury gave a brief Staff report.

(Seffinger left at 6:46 PM)

Jensen/Hyatt moved to accept the new optimized sizing plan and move forward with the analysis. Discussion: Hyatt thanked Staff. **Roll Call Vote: Hyatt, Graham, Moran, DuQuenne and Jensen: YES. Motion passed unanimously.**

Fleury went over a PowerPoint Presentation (see attached). Items discussed were:

- Water Divisions
- Water Fund Divisions
- Water Fund Financial
- Water System Planning
- Regional Water System Planning

Graham/Moran moved to extend the meeting for 30 Minutes. Discussion: None. **Voice Vote: All Ayes. Motion passed unanimously.**

- Capital Improvement Program

Council discussed water rights.

4. Review Ashland Public Schools/ APRC/ City Coordination on APS projects

Gary Milliman gave a brief Staff report.

5. Look Ahead
6. Adjournment

The Study Session was adjourned at 7:33 PM.

Respectfully submitted by:

City Recorder Melissa Huhtala

Attest:

Mayor Akins

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the City Administrator's office at (541) 488-6002 (TTY phone number 1-800-735-2900). Notification 72 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to the meeting (28 CFR 35.102-35.104 ADA Title I).

City of Ashland

Water Treatment Plant Update

JANUARY 3, 2022 CITY COUNCIL STUDY SESSION

Water Treatment Plant Update

Overview:

1. Plant Sizing and Optimization
2. Envision Program
3. Funding
4. Questions and Discussion



Plant Sizing and Optimization

Initial Capacity – Maximum Day Demand

- 7.5 MGD Initial - Expandable to 10 MGD
- 2020 Water Master Plan
 - 2040 Demand without Conservation – 6.6 MGD

Updated Capacity Analysis and Cost Optimization

- Fall 2020 Demand Update (pre/post fire)
 - Consider Conservation & Climate Impacts

Recommendations

- 7.0 MGD Initial Sizing (50 – year)
- Expandable to 9.0 MGD (100 – year)

\$2.5 Million in Cost Reductions

Year	Maximum Day Demand (mgd)			
	MDD	MDD with Conservation	MDD with Climate Change	MDD with Conservation + Climate Change
2020	5.84	5.56	5.84	5.56
2025	6.02	5.47	6.05	5.51
2030	6.18	5.37	6.25	5.44
2040	6.28	5.35	6.43	5.49
2050	6.28	5.24	6.51	5.46
2060	6.36	5.30	6.67	5.61
2070	6.37	5.45	6.93	5.84
2080	6.81	5.68	7.30	6.17
2090	7.10	5.92	7.70	6.51
2100	7.40	6.17	8.11	6.88
2110	7.72	6.43	8.55	7.27
2120	8.05	6.70	9.02	7.68

Envision Program

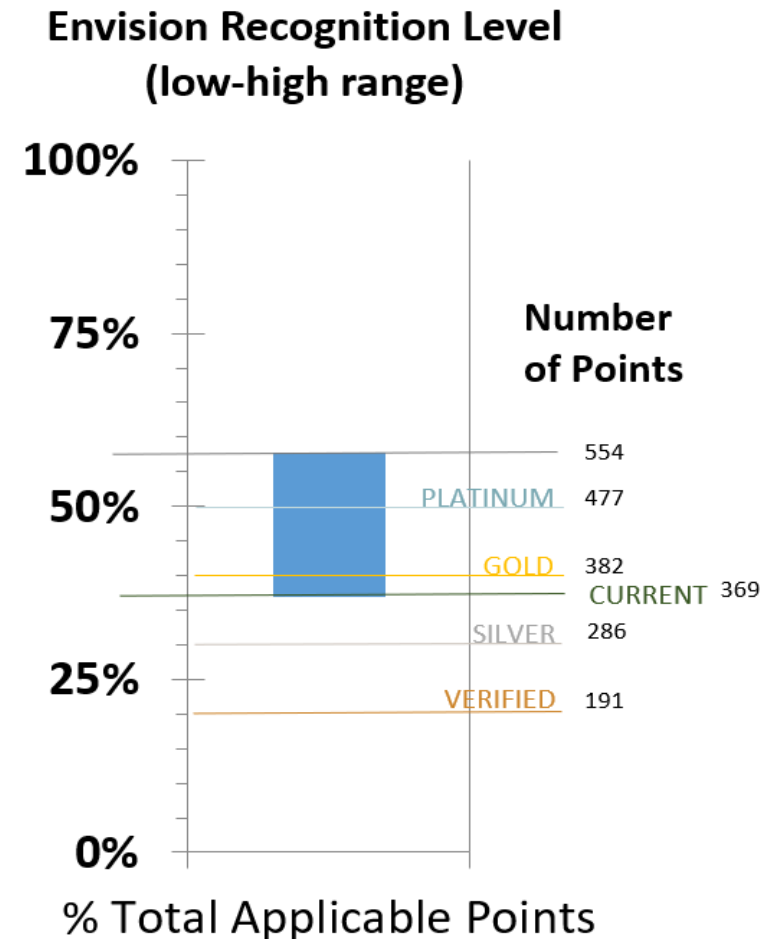
Envision Measures the Sustainability of an Infrastructure Project from Design through Construction and Maintenance.

Currently Silver – 369 Points (60% Design)

- Focus on Electrical Energy Consumption

Gold – 382 Points

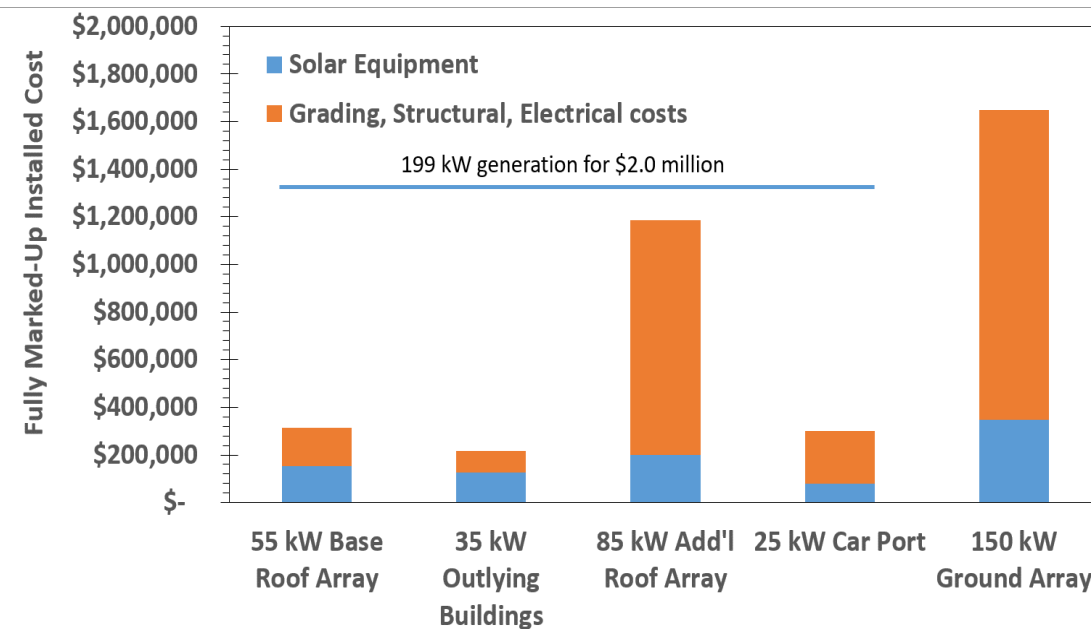
Platinum – 477 Points



Envision Program – Solar

Solar Integration onsite

- **Building Rooftops**
 - Additional cost for sitework, structural and electrical
 - 199 kW Potential - \$2 million all buildings
- **Ground Array**
 - Additional cost for sitework, structural and electrical
 - 150KW Potential - \$1.7 million



WTP Electrical Demand vs. Demand

Water Production	Power Demand (kW)	Daytime Result with 199 kW System
Winter (1.5 MGD)	167	Sell 32 kW to grid
Average day (3.0 MGD)	250	Buy 51 kW from grid
Max capacity (6.5 MGD)	516	Buy 307 kW from grid

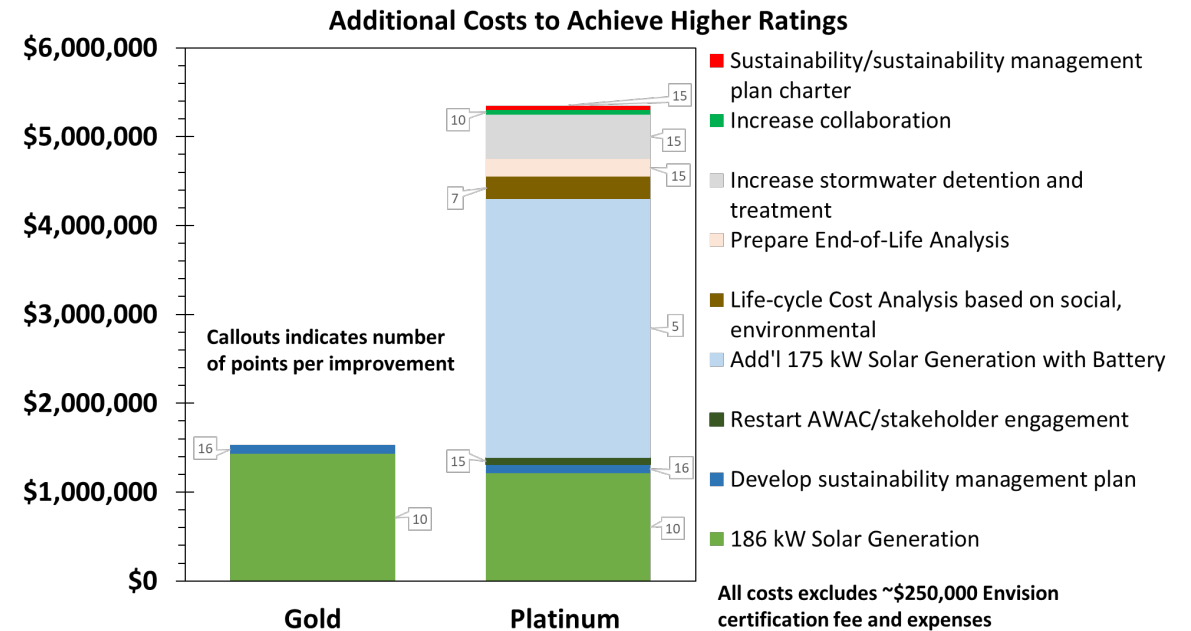
199 kW system would have provided 178 days of net daytime generation in 2019

Envision Program – Additional

Additional Considerations

- Storm Drain Retention and Treatment
- Sustainability Management Plan
- End of Life Analysis
- Ashland Water Advisory **Commission**

Envision Additions	Cost	Points
199 kW rooftop solar on buildings	\$2,000,000	10
Increase storm drain retention and treatment	\$ 150,000	15
Develop sustainability management plan	\$ 50,000	16
Prepare End of Life Analysis	\$ 100,000	15
Restart AWAC as a formal City Commission	\$ -	15
Totals	\$2,300,000	71
Current Silver Status (60% design)		369
Projected Gold Total		440



Water Treatment Plant – Funding

- **Water Infrastructure Funding and Innovation Act (WIFIA)**
 - Small Cities Program
 - Up to 80% funding
 - Flexible Terms (35 - years)
 - Low Interest Rates
- **GAP Funding**
 - Infrastructure Finance Authority (IFA)
 - Cash on hand
- **Develop formal financing package and rate assessment**
 - City Manager & Finance Director review
 - Council Approval

Water Treatment Plant Update

Current Status:

- 60% Design & Cost Estimating Complete
- 60% Value Engineering & Cost Estimate
- Sizing Optimization
 - \$32.8 Million
- Envision Components – Additional Cost
 - \$2.3 Million potential

Next Steps:

- Incorporate Envision Components
- Begin Conditional Use Permitting Process
- Develop 90% Design Document and Costs
- Develop Final Financing Package for Approval



Council Questions – HDR Memo

- Algae and algal toxins – what are the treatment options
- What is the impact of inflation
- What is the expected life of plant components
- Operating cost comparison
- Photovoltaic system generation
- Trail system impact

Water Treatment Plant Update

Questions and Discussion

Cyanotoxin Monitoring Requirements

For Sources Determined to be Susceptible

Oregon Health Authority

May 2019

