

SUSTAINABLE ENVIRONMENT COMMISSION



Steve McGeehan
Commission Chair
sec@ci.moscow.id.us

Regular Meeting
~Minutes~

Kyle Steele
Staff Liaison
208-883-7133

<https://www.ci.moscow.id.us/551/Sustainable-Environment-Commission>

Tuesday
September 20, 2022

6:00 PM

Council Chambers
2nd Floor City Hall
206 E. 3rd St

The meeting was called to order at 6:04 p.m.

PRESENT: Tina Hilding-Vice; Victoria Seever; Al Poplawsky; Julia Parker-Council Liaison; Olivia Weibe; Ian Schlater; Asaph Cousins

STAFF: Kelli Cooper, Environmental Education and Sustainability Specialist, Jenifer Rossini, Administrative Assistant

ABSENT: Jamal Lyskett; Steve McGeehan-Chair; Gordon Wilson; Jassen Bluto; Sophie Gilbert

REGULAR AGENDA

1. Approval of Sustainable Environment Commission August 16, 2022 Minutes (ACTION ITEM)

Minutes presented for approval.

PROPOSED ACTIONS: Approve the August minutes as presented; approve minutes with amendments; or provide staff further direction.

Tina noted one change to the minutes; the Moscow High School walkout is 11:30am to 1pm on the 28th.

Victoria moved to approve the August 2022 minutes, Al second to approve minutes as presented

Roll Call Vote: Ayes: Unanimous Nays: None. Abstentions: None. Motion carried.

2. Public Comment and Response to Previous Comments (limited to 10 minutes)

Members of the public may speak to the Commission regarding matters NOT on the agenda or currently pending before the Commission. Please state your name and city of residence for the record and limit your remarks to three (3) minutes.

None.

3. Use of Funds for Climate Action Planning

Ian will present ideas about solar panels for the Moscow School District

PROPOSED ACTIONS: Discussion and other actions as appropriate.

See PowerPoint attached below.

What makes a good location:

- South facing
- visible
- expandable
- newish roof and structurally sound.

Possible locations:

- Moscow Middle School cafeteria
- Moscow High School outdoor commons
- District Office
- Moscow Middle School concession shack.

There would be need an additional cost of \$2,500 per string for future installations.

Moscow Middle School cafeteria and district office are the top contenders.

Julia says since the school district doesn't pay taxes, she's not sure the Federal ITC savings would apply.

Other ideas to use the funds on are electric school buses and charging stations.

Ian says there was a request for two electric school buses and they are waiting for grant approval.

Julia asked if the City decided the City money should be sent on City building rather than the school.

Al moves to recommend to council for SEC to partnership with the School District on solar panel project, Victoria Seconds.

The committee recommends that the next step takes place in support of sponsoring solar panels.

Vote: Ayes: Unanimous Nays: None. Abstentions: None. Motion carried.

Paul suggested offering community members be able to purchase a panel to help sponsor.

REPORTS

1. City Sustainability Report- Kelli Cooper

Latah County Fair this past weekend, talked about wisecapes with public.

This fall Kelli will start on water conservation plan updates.

Climate action plan finalized, going to council Oct 3rd.

Kelli started irrigation audits this past summer. Possibly offering an irrigation class in the spring.

PCEI will be offering a wisescape class this October.

Kelli is speaking at the climate walkout next week at the high school.

Kelli will also be speaking to the Rotary in November.

2. Moscow High School Subcommittee Report- Ian Schalter

On June 29th they presented to the school district asking to apply for the national electric school bus grant. They applied for two grants.

Late August Ian finished the solar panel project.

Sept 28th 1130-1 pm East City park walk- out in support of climate change.

3. Climate Action Working Group (CAWG)-Tina Hilding

Sophie sent Tina a website, sustainablecitycode.org, which has recommendations to what changes you could work to change in the city code. Removing barriers, creating incentives, filling regulatory gaps

ANNOUNCEMENTS

Paul came to talk about the Palouse Basin Water Summit. Possibly a joint conservation plan with Pullman and Moscow. There will need to be a 15% increase in water conservation efforts.

SEC has the chance to host a table at farmers market October 15, 22 ,29.

Sept 27th there will be a presentation on designing zero energy and carbon buildings from 12-1pm at the Elson Floyd center in Pullman by Jim Hanford.

Sept. 29th will be a presentation from 12-1pm at the Elson Floyd Center on reducing embodied carbon in building constructions.

There is a bill in California to help mental health of adolescents with issues from climate change.

Sept 30th is end of irrigation season.

Tina mentioned a study out on decreasing costs of renewables. It will save trillions of dollars.

UPCOMING EVENTS / MEETINGS

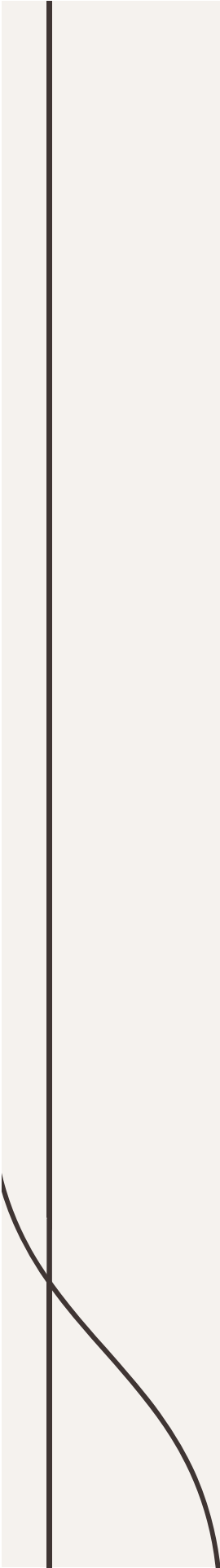
1. Next SEC meeting October 18, 2022- No meeting due to Palouse Basin Water Summit save evening



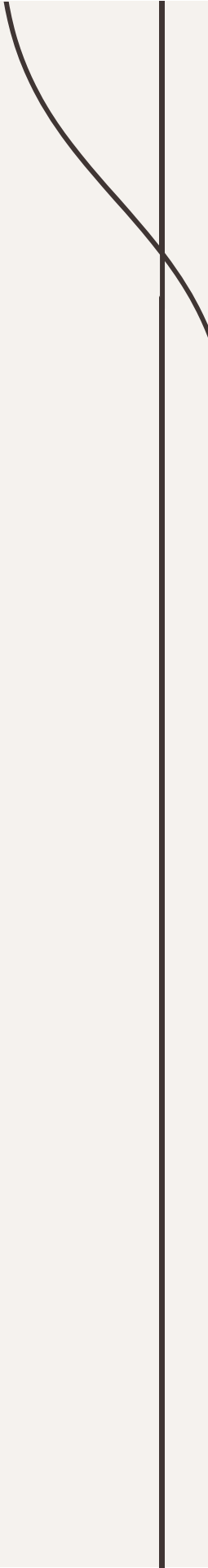
ADJOURN

The meeting adjourned at 7:03 PM

Steve McGeehan, Chair (*or stamped by Deputy City Clerk*)



Moscow School District Solar Panels



The Ask:

\$20,000, or a portion of the funds currently allocated by the City for "climate action", to fund the installation of a photovoltaic solar array on MSD land.

What Makes a Good Location?

- South facing
 - Visible
 - Community and education
 - Expandable
 - New-ish roof and structurally sound
-

Possible Locations

1

MMS Cafeteria

2

MHS Outdoor Commons

3

District Office

4

MMS Concessions

Possible Location:

1

MMS Cafeteria

Pros: Visible, likely structurally sound, ability to expand

Cons: Extra mounting costs and weight



MMS Cafeteria Estimate

**NORTHWEST
RENEWABLES**

For the proposed location at:
1410 E D St
Moscow, ID 83843

System Size (DC): 7.60kW
Year 1 Production: 9,480kWh

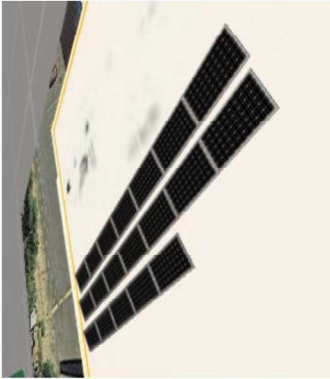
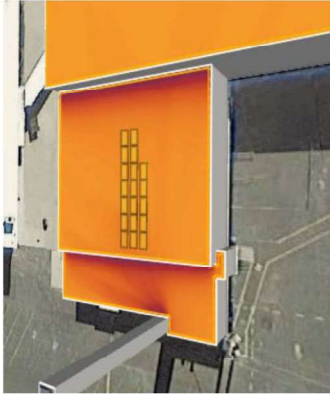
Payback period ~ 13.77 years

Solar Module(s): (19) Trina Solar Energy Co., Ltd TSM-400DEG15MC.20(II)
Inverter(s): (19) Enphase Energy Inc. IQ8M-72-2-US

System Cost: \$27,000

Federal ITC: \$8,100

Net System Cost: \$18,900



A custom solar design using Aurora's **National Renewable Energy Laboratory** validated simulation engine including parameters for weather, irradiance, submodules, inverter efficiency and shading.

**NORTHWEST
RENEWABLES**

For the proposed location at:
1410 E D St
Moscow, ID 83843

System Size (DC): 27.20kW
Year 1 Production: 34,163kWh

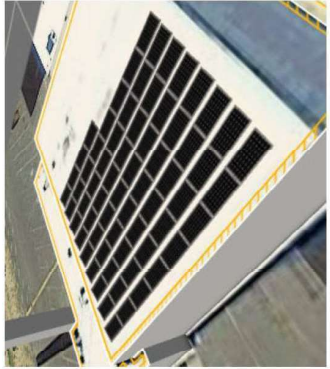
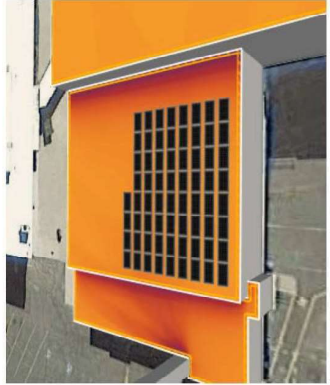
Payback period ~ 14.8 years

Solar Module(s): (68) Trina Solar Energy Co., Ltd TSM-400DEG15MC.20(II)
Inverter(s): (68) Enphase Energy Inc. IQ8M-72-2-US

System Cost: \$79,000

Federal ITC: \$23,700

Net System Cost: \$55,300



A custom solar design using Aurora's **National Renewable Energy Laboratory** validated simulation engine including parameters for weather, irradiance, submodules, inverter efficiency and shading.

Possible Location:

2

MHS Outdoor Commons

Pros: Visible, gazebo structure benefits students, less weight problems

Cons: Extra costs for structure, not able to easily expand



Possible Location:

3

District Office

Pros: Visible, South facing, ability to expand

Cons: Needs a new roof



District Office Estimate

**NORTHWEST
RENEWABLES**

For the proposed location at:
650 N Cleveland St
Moscow, ID 83843

System Size (DC): 7.60kW

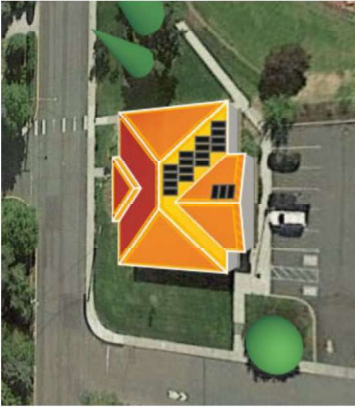
Year 1 Production: 10,438kWh - 25% Energy Offset

Solar Module(s): (19) Trina Solar Energy Co., Ltd TSM-400DEG15MC.20(II)

Inverter(s): (19) Enphase Energy Inc. IQ8M-72-2-US

System Cost:\$26,524

Payback period: 13.77 years



**NORTHWEST
RENEWABLES**

For the proposed location at:
650 N Cleveland St
Moscow, ID 83843

System Size (DC): 27.20kW

Year 1 Production: 33,074kWh - 79% Energy Offset

Solar Module(s): (68) Trina Solar Energy Co., Ltd TSM-400DEG15MC.20(II)

Inverter(s): (68) Enphase Energy Inc. IQ8M-72-2-US

System Cost: \$78,880

Payback period: 14.8 years



Possible Location:

4

MMS Concessions

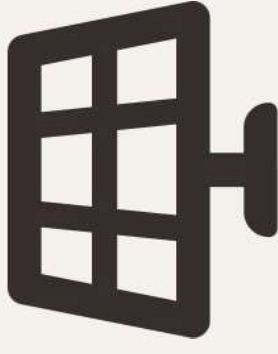
Pros: Visible, South facing, easy electrical access

Cons: Needs a new roof, no ability to expand



MMS Cafeteria & District Office

- 1 string = 11 panels
- 2 strings, installed with 19 panel options
- 5 more strings ~ \$2,500 cost
- Additional individual panels can be added



Possible Location:

1

MMS Cafeteria

2

MHS Outdoor Commons

3

District Office

4

MMS Concessions

Benefits of MSD Solar



Education



Cost Saving



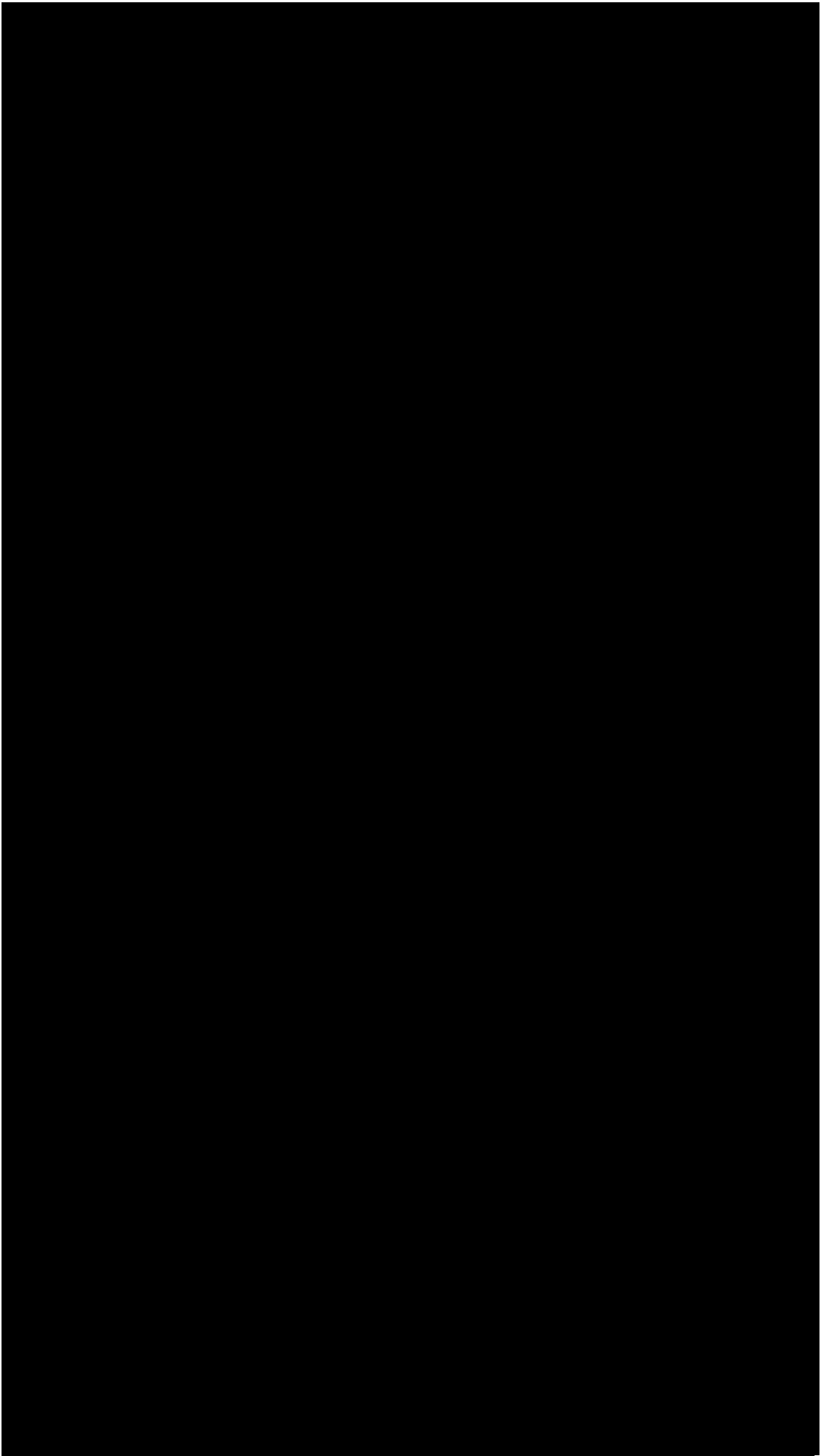
City Recognition



Conversation Starter



Sustainability Goals





19th Annual Palouse Basin Water Summit

THE VALUE IN EVERY DROP



Robert Glennon, Keynote Speaker

Regents Professor Emeritus and Morris K. Udall
Professor of Law and Public Policy Emeritus
The University of Arizona, James E. Rogers College of Law
Tucson, AZ



October 18, 2022

SEL Event Center
Pullman, Washington
4:30 pm -8:00 pm



www.palousebasinwatersummit.org



For Immediate Release:

Contact: Jon Kimberling, Palouse Basin Water Summit co-founder, jon@kimberlinginsurance.com, (208) 882-4414 or Paul Kimmell, Palouse Basin Water Summit co-founder, paul.kimmell@avistacorp.com, (509) 592-7801, <http://palousebasinwatersummit.org>

The Value in Every Drop

2022 Palouse Basin Water Summit set for October 18th, 4:30 – 8:00pm, SEL Event Center, Pullman, WA

2022 Summit features one of the nation's thought leaders and commentators on water.

Please join us for the 19th Annual Palouse Basin Water Summit on Tuesday, October 18th from 4:30 pm to 8:00 pm for this important annual community conversation about our Palouse Basin water supplies. Nationally recognized western water expert and award-winning author, Robert Glennon, will be featured at this year's event.

About Robert Glennon

The recipient of two National Science Foundation grants, Glennon serves as an advisor to governments, corporations, think tanks, law firms, and NGOs looking to solve serious challenges around water sustainability and planning. Glennon is a Regents Professor and Morris K. Udall Professor of Law and Public Policy in the Rogers College of Law at the University of Arizona. He received a J.D. from Boston College Law School and an M.A. and Ph.D. in American History from Brandeis University.

Glennon contributes regularly to national print media including the New York Times, Wall Street Journal, Washington Post and Los Angeles Times. He is a sought-after speaker and analyst, helping reporters and the public understand current water policy and building a sustainable water future. His speaking schedule has taken him to more than 30 states as well as to Europe, Asia, Australia, and the Middle East.

Glennon contributes regularly to national print media including the New York Times and the Wall Street Journal. He has been a guest on *The Daily Show with Jon Stewart*, *Talk of the Nation* with Neal Conan, *The Diane Rehm Show*, C-SPAN2's *Book TV*, and numerous National Public Radio shows. He has been a commentator for American Public Media's *Marketplace*, and he was featured in the 2011 feature-length documentary *Last Call at the Oasis*. Robert Glennon is the author of ***Unquenchable: America's Water Crisis and What To Do About It***; ***Water Follies: Groundwater Pumping and the Fate of America's Fresh Waters***; and ***Shopping for Water: How the Market Can Mitigate Water Shortages in the American West***.

About the Summit

The Summit will also feature Palouse Basin Aquifer Committee Executive Director, Céline Acord, with the Annual State of the Basin report. Additionally, Dr. Robin Nimmer, Senior Hydrogeologist with Alta Science and Engineering, will discuss her recent work on identifying additional water supplies within the basin.

"We are incredibly grateful to have Robert Glennon joining us this year. Glennon's experience and insights around western water issues including water supplies and the challenges we face will be so timely as we look to develop additional water sources within the Palouse Basin," notes Jon Kimberling, Summit co-founder and Moscow businessman.

The Summit is in its 19th year. The event is free, and the public is encouraged to attend.

For more information, visit our website at: www.palousebasinwatersummit.org

Like us on Facebook, follow us on Twitter or Instagram, too!

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2022 PALOUSE BASIN WATER SUMMIT

The Value in Every Drop

Tuesday, October 18, 2022

SEL Event Center

5:00pm – 8:00pm

Doors open at 4:30pm

Program

- **Welcome/Introductions – Cara Haley – Emcee**
City Engineer, City of Pullman
- **The Honorable Glenn Johnson and Art Bettge**
Mayors of Pullman and Moscow
- **Annual State of the Basin – Céline Acord**
PBAC Executive Manager
- **Alternative Water Supply Study Findings - Dr. Robin Nimmer, P.G., L.G.**
Senior Hydrogeologist
Alta Science & Engineering, Inc.
- **PNW 2021 Water Supply & Demand Forecast - Jenny Adams**
Associate Professor, Civil & Environmental Engineering
Washington State University
- **Keynote - Robert Glennon**
- **Closing Remarks/Palouse Basin Water Advocate Award/Drawing for Low-Flow Toilet**

Visit: <http://palousebasinwatersummit.org>

