



**TOWN OF HARRISBURG, NORTH CAROLINA
HARRISBURG TOWN HALL
SUSTAINABILITY BOARD MEETING**

**May 12, 2021
6:30 PM**

AGENDA

1. CALL TO ORDER

- A. This meeting will be held on the Zoom online platform. The public can access the meeting via:
<https://us02web.zoom.us/j/82909751722?pwd=RXk2bXpFRUVPUk1LSVVsYjlubkpadz09>
- B. AGENDA ADOPTION
- C. SPECIAL PRESENTATIONS
 - 1. **Sustainability Series: Going Solar 101**
 - Scott Noel, HSAB Chair (moderator and sharing information)
 - Jeff Redwine, Renewable Energy Design Group
 - Jake Thomas, Union Power
- D. PUBLIC COMMENT - Anyone wishing to address the Board may do so during the Public Comment section. Please state your name and address for the record, be courteous and do not repeat what has already been said. Please keep your comments about the subject and not personal in nature.

2. CONSENT AGENDA

- A. **April Meeting Minutes:** These will be submitted along with the May meeting minutes to both be reviewed/approved in our June meeting.

3. OLD BUSINESS

- A. **Sustainability Series:** Brief recap April 17 events
- B. **EV charging station (with 2 ports) in Harrisburg Park: APPROVED** by NCDEQ as part of the VW Rebate Program funds
- C. **Harrisburg UDO update**
- D. **HSAB Adopt-A-Street:** Discuss Rocky River Rd cleanup schedule; plus, how to encourage others to clean up their adopted streets and for future discussion, how to help the Town create and manage a Town (not NCDOT) street cleanup program (this will be part of the Green Leaf Program too).
- E. **Adopt-A-Stream program:** Table for future meetings (this could be included in the Green Leaf Program also)

- F. **Sustainable promotional items:** Table for future meetings
- G. **Green Leaf Program (business and residential):** Discuss next steps to restart planning with a goal to launch in Q3 2021

4. **NEW BUSINESS**

- A. **Clean Air Carolina air quality monitors:** 1) Reminder for us to follow up on planning for additional monitors in Harrisburg; 2) Borrowing two AirBeam2 portable monitors from CAC for our temporary use (e.g. July 4th festivities, new developments, roadways, etc.)
- B. **Addressing garbage dumped/ending up in storm drains:** How can the HSAB help the Town to deter and resolve these issues? (Related to Mayor Sciascia and Rob Donham's email example). Follow up with Town staff will be needed.
- C. **NCDOT Swat-A-Litterbug program:** Related to increased garbage along NC roadways. *Recommend the Town promote this program/app to residents.* In the first 4 months of 2021, 5.5 million tons of litter have been picked up in NC - 1/2 million tons in Mecklenburg County alone at a cost of \$6.2 million.
- D. **Sustainability Series:** Discuss schedule of upcoming monthly HSAB meeting topics to share with residents - confirm June and July ASAP so we can secure speakers and begin to promote it.
- E. **July 4th Harrisburg festivities:** Begin planning HSAB related activities - engaging Town staff about waste operations, educational opportunities, and other possibilities for the parade and at Harrisburg Park.

5. **ADVISORY BOARD UPDATES**

- A. **HSAB New Member(s) Appointment:** Review and vote on recommendations to send to Town Council for their review and vote in their June meeting. Applicants to review: 1) Bill Leake and 2) Ronald Hogg, Sr

6. **COUNCIL UPDATES**

- A. Updates from Mayor Sciascia and Councilwoman Staton---Williams

7. **ADJOURNMENT**

Town of Harrisburg's Vision Statement

Harrisburg will be the best small town in North Carolina based on low density housing, excellent economic opportunities, a safe living environment, and efficient and effective municipal services. Amenities such as excellent recreational programs, adequate open space, attractive shopping opportunities, a diversity of restaurants, and a connected system of roadways, sidewalks, greenways, and bicycle lanes will continue to enhance the quality of life of the Town. These services and amenities will be provided while retaining reasonable tax rates and debt levels.

Solar 101



RENEWABLE
ENERGY
DESIGN GROUP

Jeff Redwine

- Founder & Co-owner since 2012
- Solar passion sparked while serving in the Peace Corps for Economic Development
- 12 years of selling, installing residential and commercial solar
- Leads RED Group with business partner, Christian Lofton, Cynthia Redwine, and Melvin Jewett



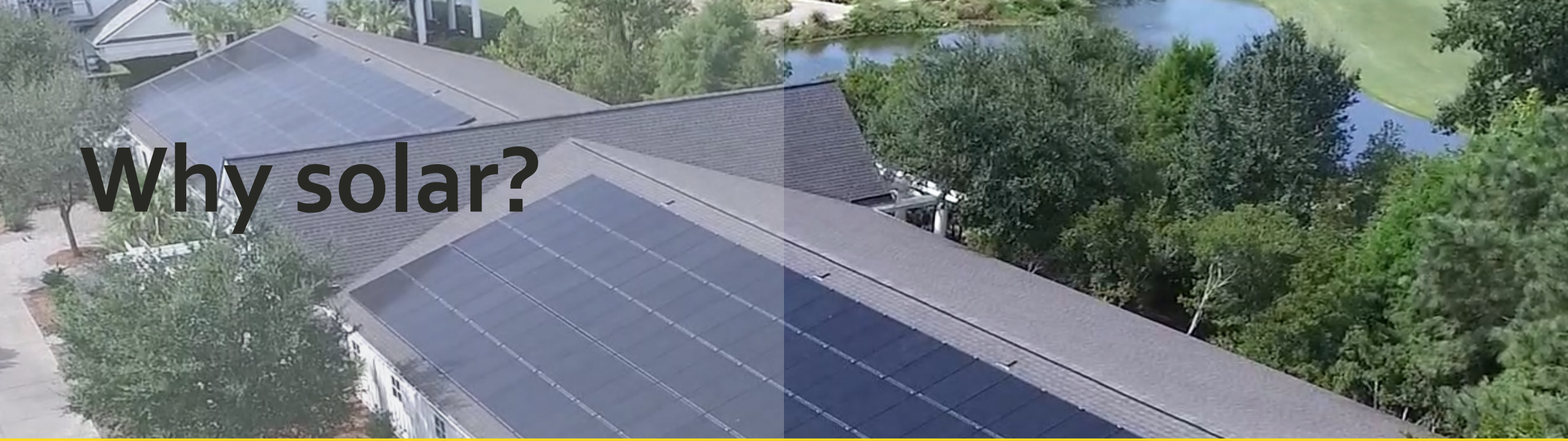
Who is RED Group

Renewable. Energy. Design

- Local solar geeks
- Decades of experience
- General and electrical contractors
- NABCEP certified
- Residential, commercial, agricultural

RED Group is dedicated to education and sustainability.

We source, design, and install grid-tied and off-grid solar energy systems that maximize production and, in turn, maximize our clients' investments.

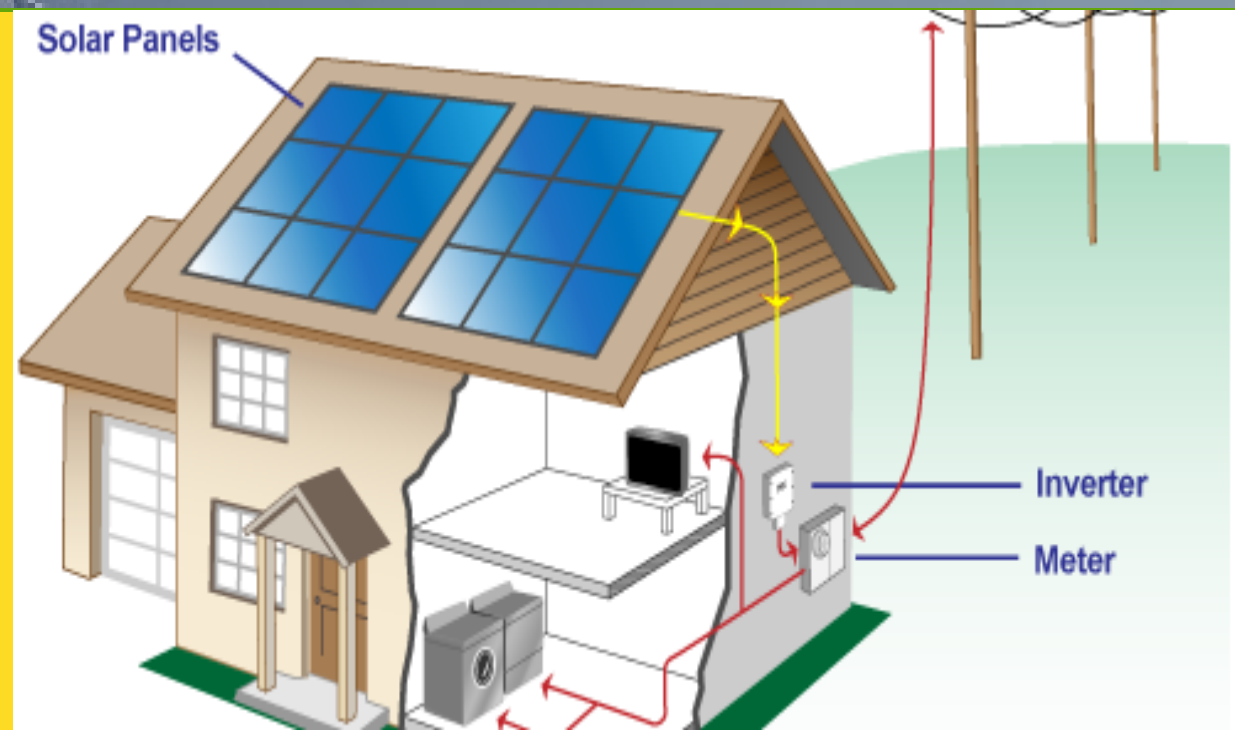
An aerial photograph of a residential property featuring a large, dark-colored solar panel array installed on a grey shingled roof. The house is surrounded by lush green trees and shrubbery. In the background, a body of water and a golf course are visible under a clear sky.

Why solar?

- Federal tax credits
- Zero maintenance costs
- Proven technology
- 25-year warranty
- Environmental superstar

Net Metering

How does the utility compensate you for energy you produce?



Net Metering Bill

Service From: FEB 28 to MAR 29 (29 Days)

between APR 30 and MAY 03 .

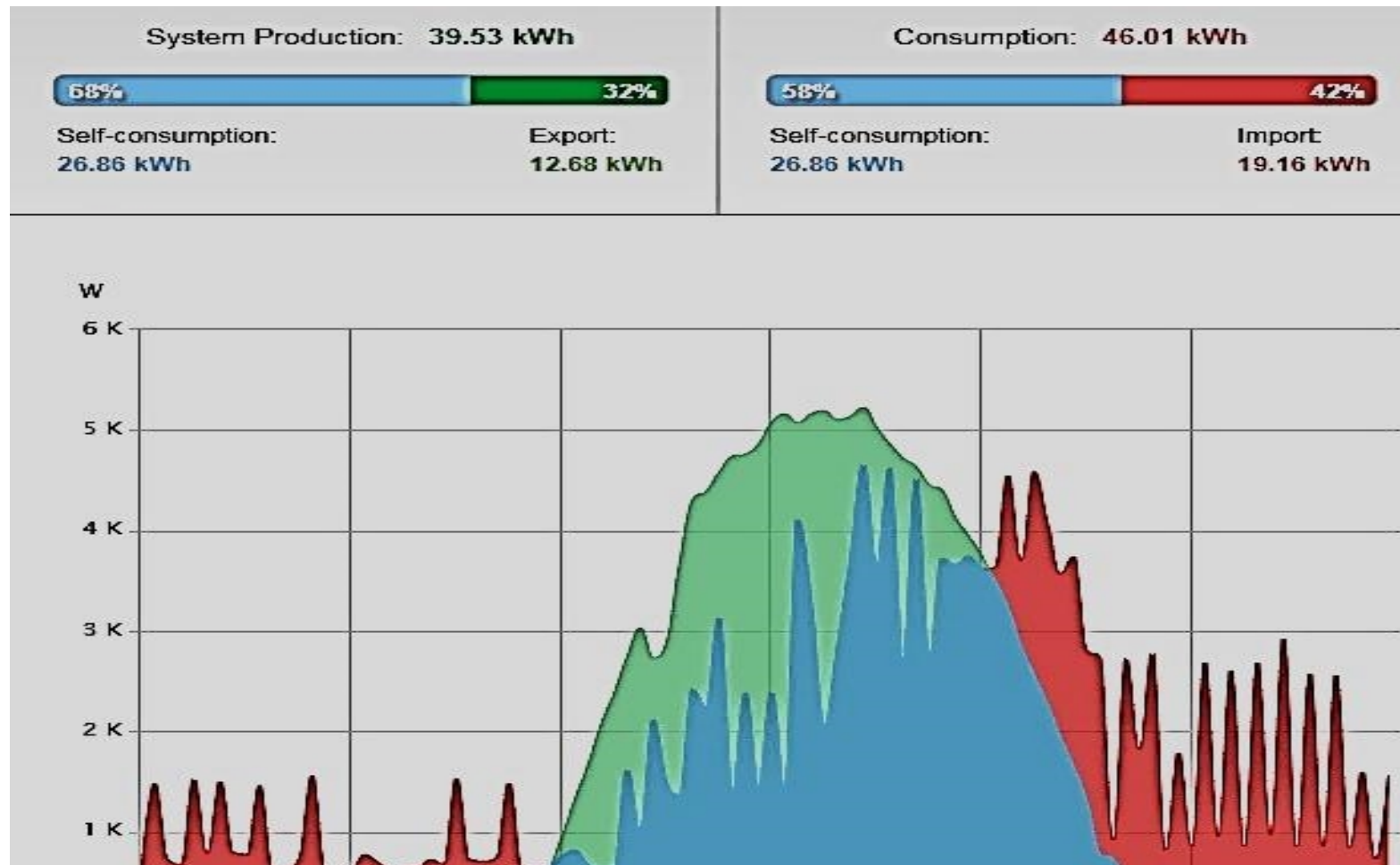
PREVIOUS BILL AMOUNT	PAYMENTS (-)	NEW CHARGES (+)	ADJUSTMENTS (+ OR -)	AMOUNT DUE (=)
\$86.43	\$86.43	\$13.71	\$0.00	\$13.71

METER NUMBER	METER READINGS: PREVIOUS	METER READINGS: PRESENT	MULTI- PLIER	TOTAL USAGE	RATE SCHEDULE DESCRIPTION	AMOUNT
	20995.619	22130.733	1	1,135 KWH	Net Metering	
	4548.648	5681.194	1	1,133 KWH	RS - Residential Service	
					Energy Delivered to Grid	
				<u>2 KWH</u>	RS - Residential Service	\$11.98
					Renewable Energy Rider	\$0.83
					Sales Tax	\$0.90
					Amount Due	\$13.71

Electricity Usage	This Month	Last Year
Total KWH	2	1,453
Days	29	31
AVG KWH per Day		47
AVG Cost per Day	\$0.41	\$4.65

A late payment charge of 1.0% will be added to any past due utility balance not paid within 25 days of the bill date.

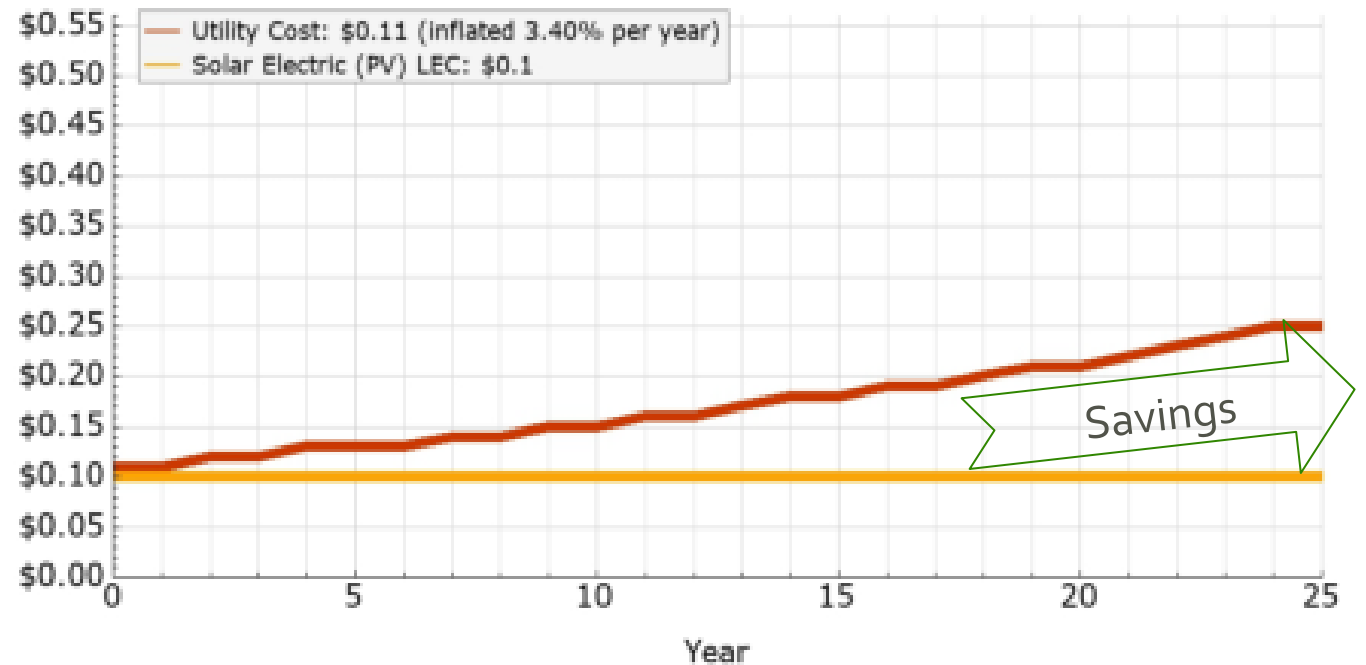
Monitoring



Hedge Against Rising Rates

Electric: Levelized Energy Cost (LEC)

\$/kWh: Utility vs. System Levelized Energy Cost (LEC)



Getting Started



- Understand your quote
 - Cost per watt
 - Accurate bill assessment (actual usage)
 - Technology Comparison
 - Production analysis
 - Understand your Azimuth, Tilt, Shading, and the impact they have on production
 - Understand how your utility rates
 - Financing versus cash purchase



Trust Your Contractor

- Buy local
- Get references
- NABCEP Certification
- Electrical and General Contractor Licensure
- Technical Expertise, Proven Experience, Reputation
 - Will they stand by you and their work?

Resources: Resources: PVwatts (NREL), NCSEA, BBB, Attorney General, Board of Contractors

Typical installation

Residential

- ✓ Grid-tied
- ✓ Roof-mounted
- ✓ Consider tilt, azimuth, shading
- ✓ Panels, inverters, monitoring



Incentives

- ✓ Duke rebate ????
- ✓ Federal tax credit (26%)
- ✓ Referral program (\$500)
- ✓ Clean Air Carolina (10%)

Reward

- ✓ 8-10 year payback
- ✓ 8-12% IRR
- ✓ Home Value Increase

8kW PV

☐ \$24,000 cost

☐ (\$7,200 tax credit)

\$16,800 Investment



Turnkey Service

- ☐ Consultation
- ☐ Design
- ☐ Permits
- ☐ Installation
- ☐ Commissioning
- ☐ Education



www.redgroupnc.com

Thank you for your interest in solar

Jeff Redwine

jeff@REDgroupnc.com

336-671-1068



RENEWABLE
ENERGY
DESIGN GROUP



TOWN OF HARRISBURG

Agenda Item Details

Title:

April Meeting Minutes: These will be submitted along with the May meeting minutes to both be reviewed/approved in our June meeting.

Presenting Personnel:

Suggested Motion or Action:

None Necessary

Description/Background:

April meeting minutes will be provided soon for review and approval along with the May meeting minutes.

Recommendation:

Fiscal Impact:

Attachments:

None



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Title:

Sustainability Series: Brief recap April 17 events

Presenting Personnel:

Suggested Motion or Action:

Description/Background:

Recommendation:

Fiscal Impact:

Attachments:

None



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Suggested Motion or Action:

Description/Background:

Recommendation:

Fiscal Impact:

Attachments:

None



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Title:

Harrisburg UDO update

Presenting Personnel:

Suggested Motion or Action:

Description/Background:

Recommendation:

Fiscal Impact:

Attachments:

None



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Attachments:

None



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Recommendation:

Fiscal Impact:

Attachments:

None



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Suggested Motion or Action:

Description/Background:

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Fiscal Impact:

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Fiscal Impact:

Attachments:

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