

A photograph of three workers in hard hats and safety vests installing solar panels on a roof. The image is overlaid with a semi-transparent green filter. The workers are positioned around a large solar panel, with one in the foreground, one in the middle ground, and one in the background. The solar panels are arranged in rows across the roof.

# BRINGING SOLAR TO THE CITY OF LEBANON

- Work Session
- October 23, 2024

# Agenda

- Background
- Solar options
- Funding opportunities
- Decision points
- Next steps





# Annual financial impact: utility bills

Justice Center- \$78,000

Water Treatment Plant- \$165,000

Water Intake- \$86,000

Wastewater Treatment Plant- \$282,000

Travel Station- \$2,935

City Hall - \$14,450

Library - 19,435

Senior Center - 15,975

Streetlights - \$143,815

Parks- \$45,425

## GRAND TOTAL - \$853,035

John Smith  
123 John Doe St  
Medford, OR 97501



Questions: Call  
**1-888-221-7070**  
24 hours a day,  
7 days a week  
pacifcpower.net



### Your Balance With Us

|                                |                |
|--------------------------------|----------------|
| Previous Account Balance       | 87.08          |
| Payments/Credits               | -170.42        |
| New Charges                    | +160.10        |
| <b>Current Account Balance</b> | <b>\$76.76</b> |

### Payments Received

| DATE                  | DESCRIPTION                                   | AMOUNT          |
|-----------------------|---|-----------------|
| Aug 27, 2020          | Payment Received - Thank You                  | 87.08           |
| Sep 23, 2020          | 09/2020 Solar credit (853 KWH @ \$0.0977/KWH) | 83.34           |
| <b>Total Payments</b> |   | <b>\$170.42</b> |

Bill credits 2

Note: \$83.34 Participation credit is for OREGON COMMUNITY SOLAR project @ 5432 Winthrop Hwy Medford

### Detailed Account Activity

#### ITEM 1 - ELECTRIC SERVICE

123 John Doe St Medford OR  
Oregon Residential Service, Schedule 4

| METER NUMBER | SERVICE PERIOD From To    | ELAPSED DAYS | METER READINGS Previous | Current | METER MULTIPLIER | AMOUNT USED THIS MONTH |
|--------------|---------------------------|--------------|-------------------------|---------|------------------|------------------------|
| 12345678     | Aug 18, 2020 Sep 17, 2020 | 30           | 20055                   | 20830   | 1.0              | 775 kwh                |

Next scheduled read date: 10-16. Date may vary due to scheduling or weather.

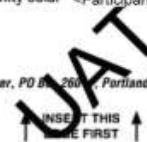
| NEW CHARGES 09/20              | UNITS   | COST PER UNIT | CHARGE       |
|--------------------------------|---------|---------------|--------------|
| Basic Charge - Single Phase    |         |               | 9.50         |
| Delivery Charge                | 775 kwh | 0.0442600     | 34.30        |
| Supply Energy Charge Block 1   | 775 kwh | 0.0555000     | 43.01        |
| Federal Tax Act Adjustment     | 775 kwh | -0.0044500    | -3.45        |
| Oregon Corp Activities Tax Adj |         | 0.0041000     | 0.34         |
| Public Purpose                 |         | 0.0300000     | 2.51         |
| Energy Conservation Charge     | 775 kwh | 0.0034600     | 2.68         |
| Low Income Assistance          |         |               | 0.69         |
| B P A Columbia River Benefits  | 775 kwh | -0.0093400    | -7.24        |
| <b>Total New Charges</b>       |         |               | <b>82.34</b> |

Note: This agreement is enrolled in community solar <Participant ID will be placed here>

Write account number on check & mail to: Pacific Power, PO Box 26000, Portland, OR 97256-0001

RETAIN THIS

RETURN THIS PORTION WITH YOUR PAYMENT.



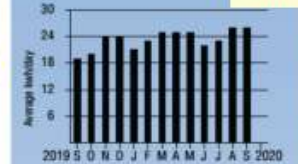
PACIFIC POWER  
PO BOX 26000  
PORTLAND OR 97256-0001



BILLING DATE: Sep 23, 2020  
ACCOUNT NUMBER: 12345678-001  
DUE DATE: Oct 9, 2020  
AMOUNT DUE: \$76.76

### Historical Data - ITEM 1

Total



### Your Average Daily kwh Usage by Month

| PERIOD ENDING    | SEP 2020 | SEP 2019 |
|------------------|----------|----------|
| Avg. Daily Temp. | 67       | 67       |
| Total kwh        | 775      | 570      |
| Avg. kwh per Day | 26       | 19       |
| Cost per Day     | \$2.74   | \$2.11   |

We continue to suspend nonpayment disconnections in response to COVID-19. If you are past due or need help with your account, we encourage you to visit our website or call us now to explore flexible payment arrangements.

Energy assistance resources are available now and may be able to help. Community Services Consortium (CSC) can be reached at 541-926-7163. Find out more at pacific-power.net/assistance.

1  
Normal utility bill charges

1. Payment Charge for Oregon rate payment charge of 2.0% may be applied on any balance not paid in full each month.

Change of Mailing Address or Phone? Check here & provide information on back.

Account Number: 12345678-001  
Date Due: Oct 9, 2020

AMOUNT DUE: \$76.76

Please enter the amount enclosed.

# Which solar installation option to choose?

**Commercial Solar**  
On-site installation,  
reduced energy costs.



**Utility-Scale Solar**  
Large-scale generation  
intended for revenue  
generation



**Community Solar**  
Shared access,  
community benefit,  
revenue opportunity.

# Utility-Scale Solar

- Requires 10-200 acres
- WWTP only option
- Math doesn't Math







# Commercial Solar (cost-offset approach)

- Roof vs. Ground Mounted
- Site Opportunities
- Net Metering
  - Size limits
  - One project vs. phased approach



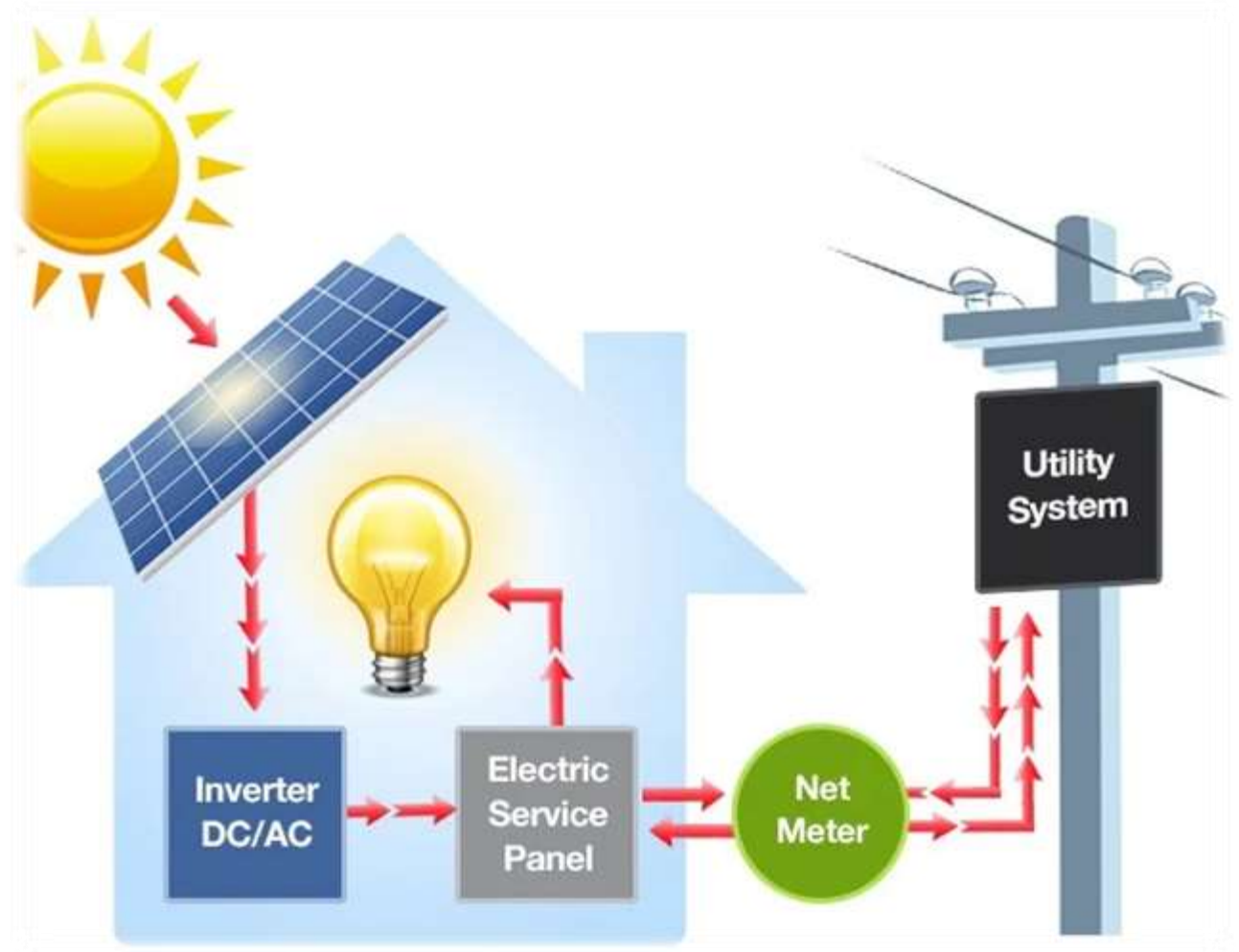
# Commercial Solar (cost-offset approach)



# Net Metering:

**Net metering** is an electricity billing mechanism that allows consumers who generate some or all of their own electricity to use that electricity anytime, instead of when it is generated.

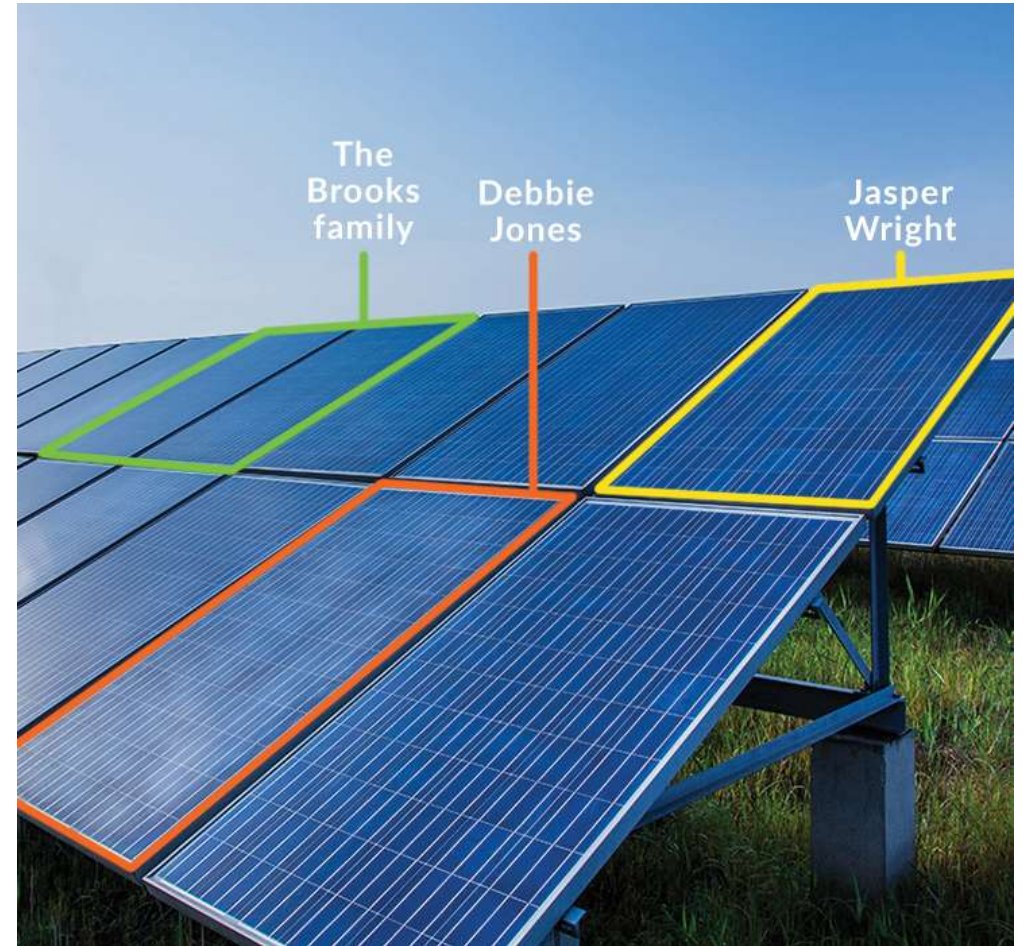
Monthly net metering allows consumers to use solar power generated during the day at night. Annual net metering rolls over a net kilowatt-hour (kWh) credit to the following month, allowing solar power that was generated in July to be used in December.

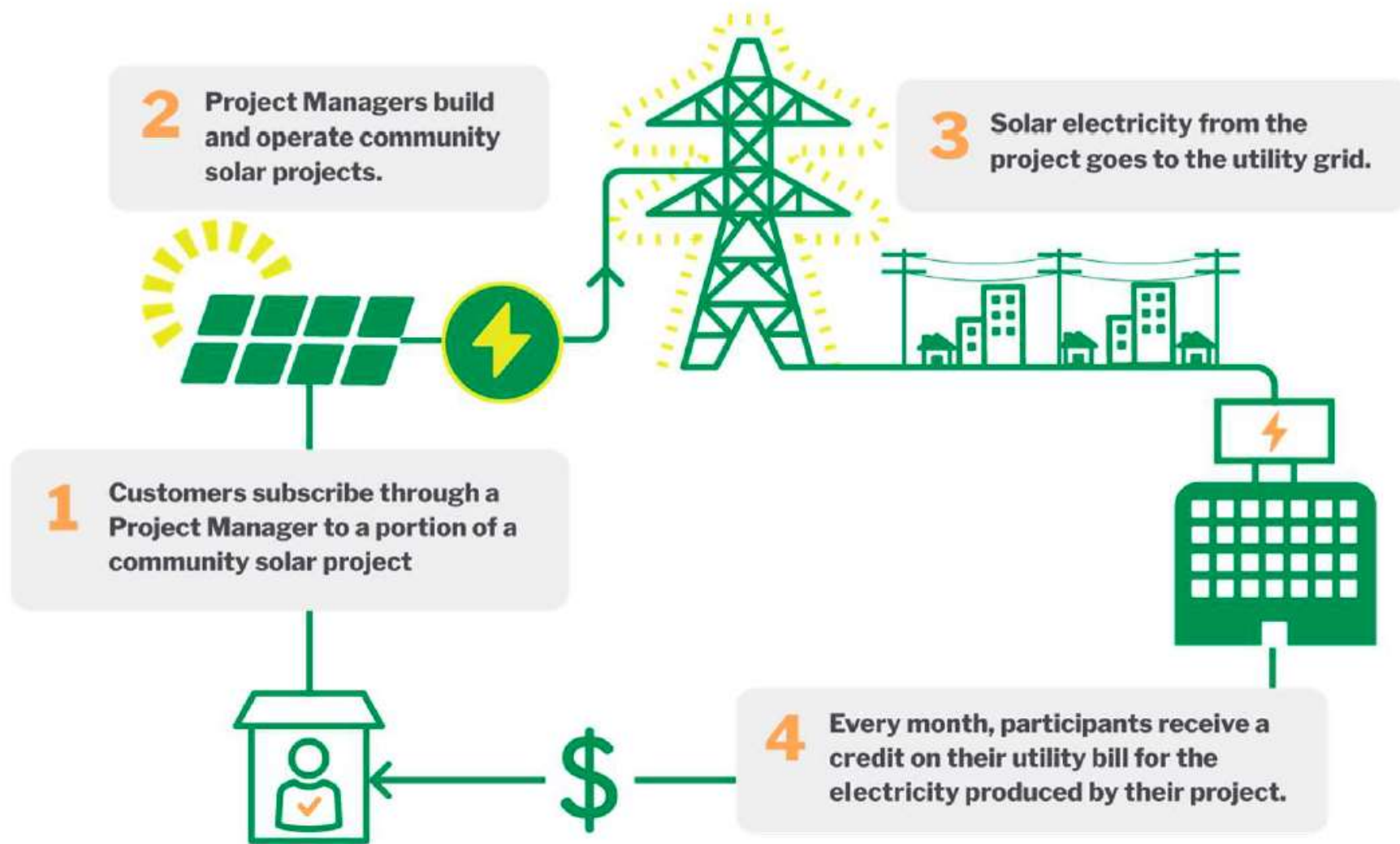




# Community Solar revenue approach)

- Siting requirements
- Site Opportunity
- Operations
  - Customers
  - Low-income support
  - Residential requirement
  - Pacific Power v. CPI

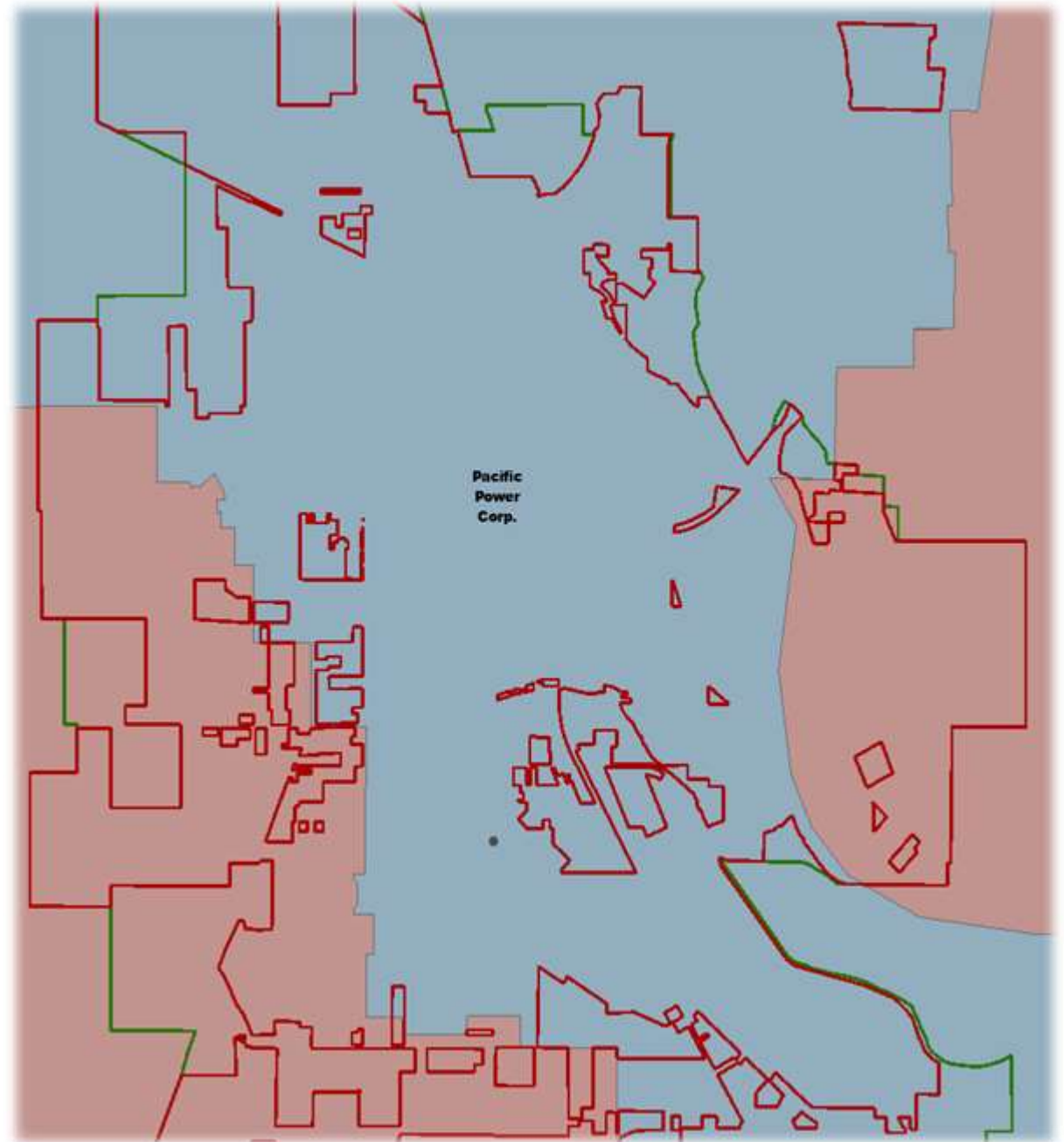






# Pacific Power coverage area:

- Although CPI also services portions of Lebanon, most City-owned facilities receive electricity from Pacific Power.
- CPI does not currently have any community solar projects.





# Cost/Grants/Funding

Rule of thumb - \$1 million/1MW

Grant Opportunities

Tax Credits

Interfund loan - payback





# Misc. Considerations

- Maintenance Requirements
- Security
- Replacement Schedules and cost
  - Panel warranty – 25 years
  - Battery replacement – 10 years

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**Utility-Scale Solar**  
Large-scale generation  
intended for revenue  
generation  
...well....not this one...



**Community Solar**  
Shared access,  
community benefit,  
revenue opportunity.



**TO BE**

**CONTINUED** 