



Office of Sustainability

Report: Roadmap to Solar for
Affordable Housing

Multnomah County
Office of Sustainability
John Wasiutynski, Director

- Partnership & Report Background
- Report Findings
- Work Underway
- Looking Ahead



Drivers

- Climate Action Plan
 - 80% Reduction of GHG by 2050
 - 10% of Energy from Local Renewables by 2030
- 100% Renewable by 2050
 - 100% Renewable Electricity Supply by 2035
 - 2% of Energy from Community Based Sources
- Environmental Justice

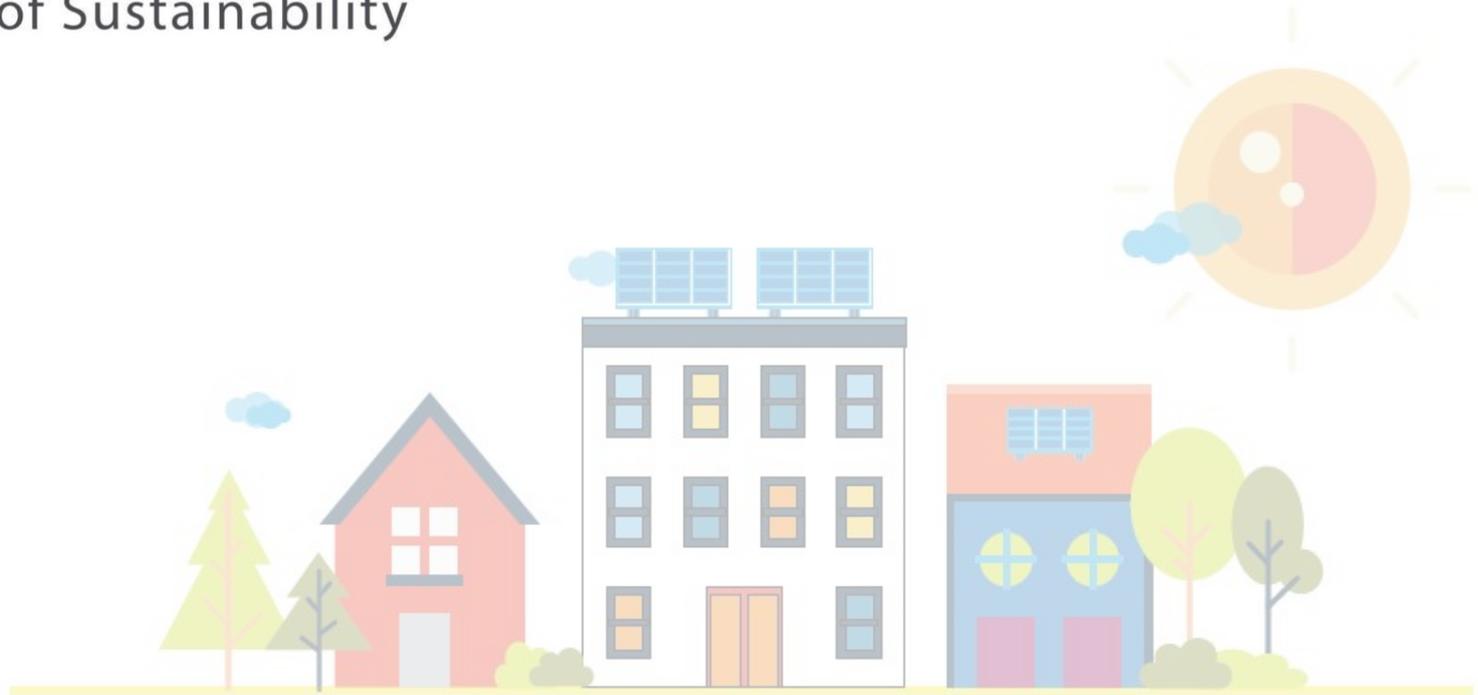
Roadmap to Solar for Affordable Housing // Partnership



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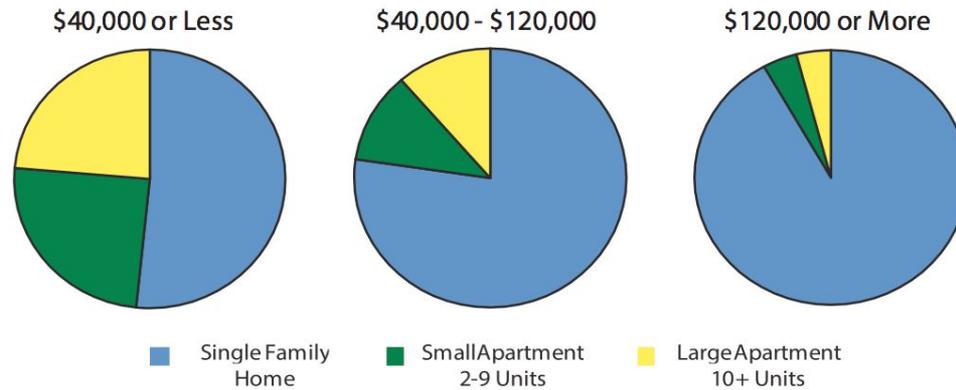


Portland State
UNIVERSITY

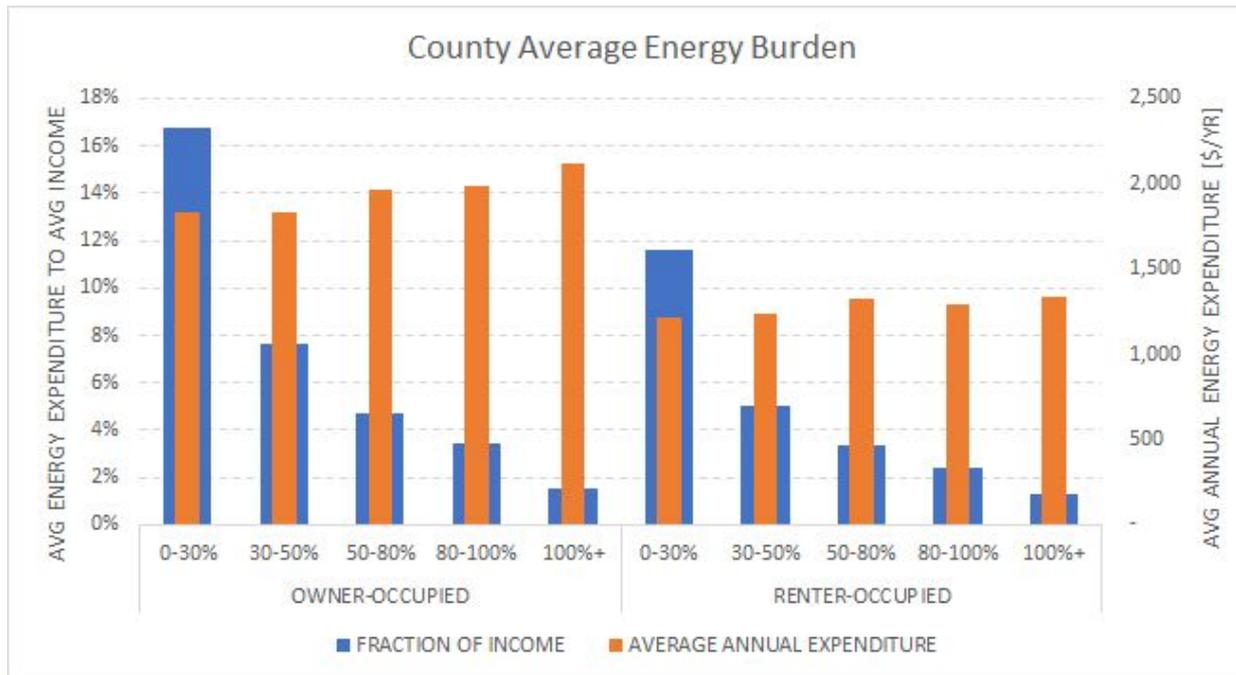


Roadmap to Solar for Affordable Housing // Background

Dwelling Type by Household Income



County Average Energy Burden



Solar Projects by Income for Portland, OR

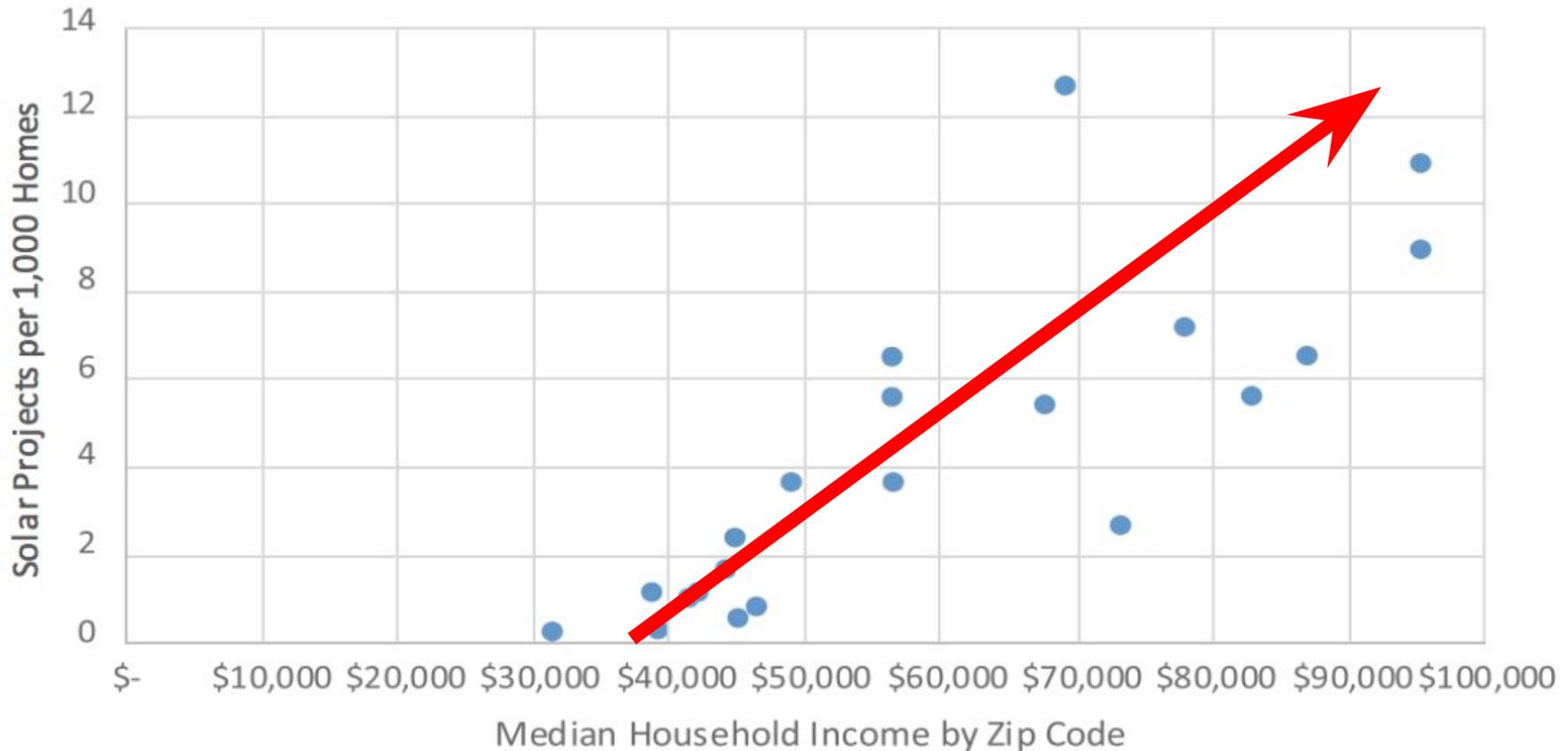


Figure 1: Zip code density of solar installations by median household income



Buildings with solar potential	346
Households	3,010
Total kW potential	13,683
Average monthly savings	55%

Roadmap to Solar for Affordable Housing // Report Findings

Multifamily Housing Stock



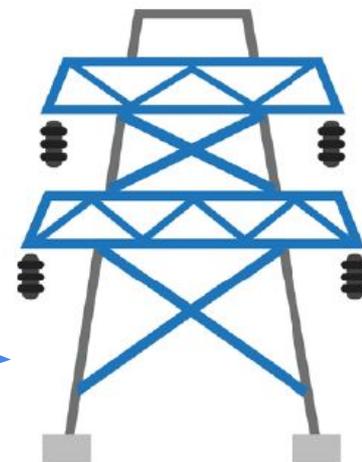
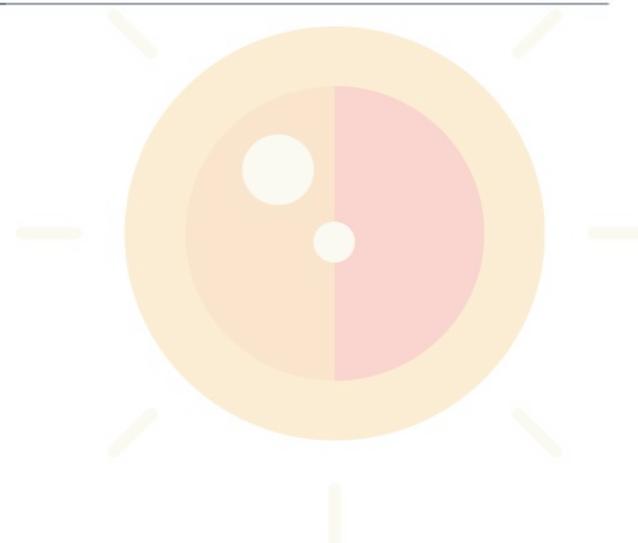
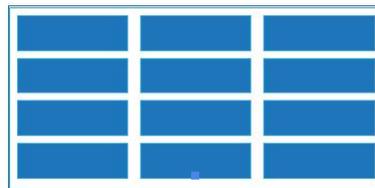
Buildings with solar potential	150
Households	2,797
Total kW potential	11,914
Average monthly savings	47%

Single Family Housing Stock (includes duplexes)

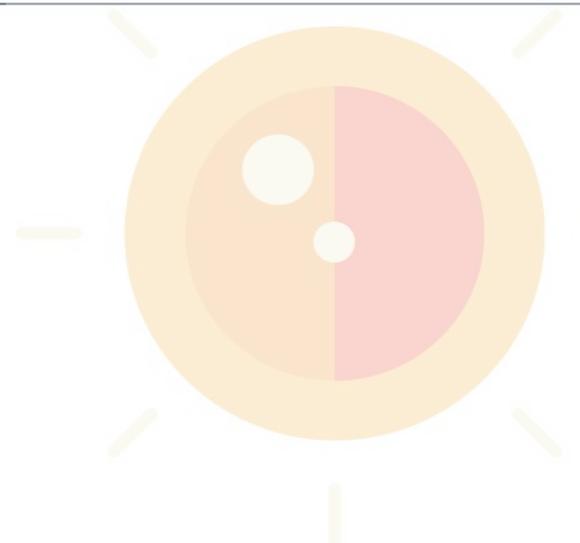
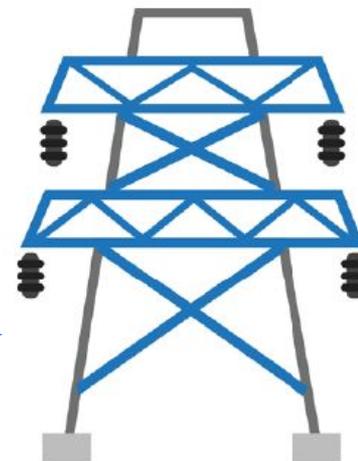
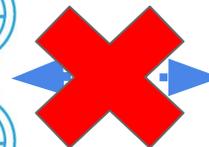
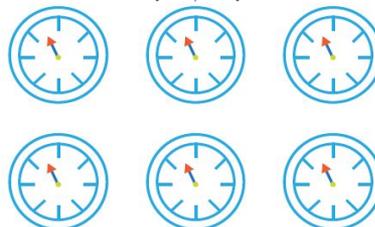
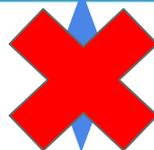
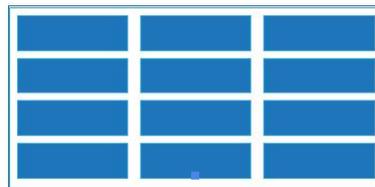


Buildings with solar potential	196
Households	213
Total kW potential	1,768
Average monthly savings	58%

Single Family



Multifamily

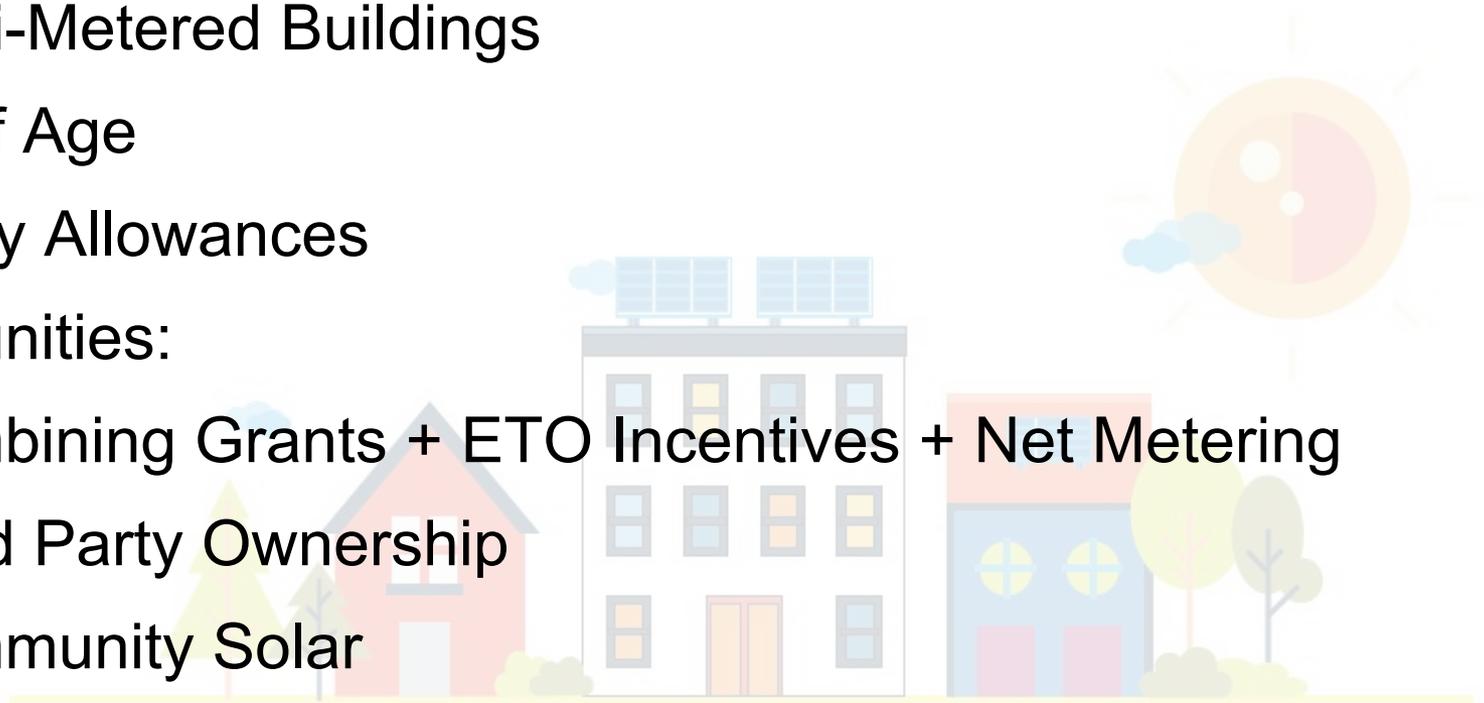


Challenges:

- Split Incentive
- Financing Availability & Access to Tax Equity Partner
- Multi-Metered Buildings
- Roof Age
- Utility Allowances

Opportunities:

- Combining Grants + ETO Incentives + Net Metering
- Third Party Ownership
- Community Solar





“ Expand public energy subsidies to include solar energy measures ”



Case Study: Jim and Salles Apartments

- 48kW Rooftop solar array
- Pioneering use of DOE WAP funds
- Leverage of other philanthropic funding
- \$130k in reduced housing costs



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Case Study: Stark Street Apartments

- 52kW Rooftop solar array
- Pioneering use of OHCS public purpose charge funds
- Leverage of other philanthropic funding
- \$150k in reduced housing costs



Case Study: Saginaw Park (Eugene, OR)

- 103W Ground mount solar array
- Emerald PUD will credit residents with energy
- Value of solar where efficiency options are limited
- SVdP also looking at trailer replacements



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FOUNDATION**

- **Broad and deep stakeholder engagement**
 - Statewide listening sessions
 - 1:1 discussions with over 40 community-based organizations
 - Low- to Moderate-Income (LMI) Solar Work Group
- **Strategy:** *Increasing Solar Deployment in Oregon's LMI Communities*
- **Intersections:** resiliency & preparedness, community solar, environmental justice, de-carbonization, community energy/RE planning, anti-displacement, energy efficiency, water/air/health



Policy Changes

- Implementation of 2% Community Based RE Goal
- Community Solar
- Energy Resilience
- SB 978: Utility Regulation of the Future
- CAP & Invest

Programmatic Opportunities

- Solarize Campaign for Affordable Housing
- Explore Other Innovative Funding Sources



Questions?

