Oregon Solutions - Lloyd Green District

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Creating Glean Water In A Beautiful Setting

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Redevelopment Catalyst



Intermodal Transit and Social Connections



A Mix of 24/7 Uses



A Green District



Storm Water Flow



Green Street Flow-Through Planters



Vegetated Roofs and Walls



Open Space and Habitat Corridors



Purple Pipe Non-Potable Reuse System



District Thermal Energy



Smart Grid



Headquarter Hotel - Receptacle for and Leader of EcoDistrict



Buildings Receive and Contribute to District





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Next Steps

Establish District Boundary and Scope of Involvement

Stormwater Collection and Reuse:

Calculate runoff volumes from public and private property within the district at current versus projected buildout

Establish projected non-potable demand for sanitary and irrigation – current and projected Work with BES and Water to establish appropriate fee and incentive structure

Wastewater Treatment for Reuse and Thermal Capture:

Current wastewater volumes from district – distinct from stormwater Estimate system size needed to address available volumes Work with BES to calculate thermal profile of sewer at point of contact with district

Anaerobic Digestion:

Establish Food Waste volumes for district at various phases of redevelopment Calculate hauling costs and Greenhouse Gas impacts of food waste composting Life Cycle Cost Analysis of system inputs and outputs

District Thermal – thermal synergies:

Determine thermal profile of various occupancies – correlate with planned/potential mix of uses in future development

Smart Grid:

Determine electric load profile of various occupancies – correlate with planned/potential mix of uses in future development

Identify parking quantities in district – hours of use correlated with peak electrical demands Massing volumes anticipated for eventual build-out – perform solar potential analysis