





COMPLIES WITH SECTIONS 9-8.6 (G) & (K), SECTION 9-8.10 (E), AND SECTION 9-8.10 (C)(3) OF ORDINANCE

## DECOMMISSIONING PLAN (13 PAGES)

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Kimley **Whorn** Page 6 Resale/Salvage Value Estimate There is a robust secondary market for resale of solar PV panels worldwide and a network of facilities available for recycling panels. Solar PV panels are estimated to degrade less than 0.5% per year, meaning they're expected to operate at 90% of capacity after 20 years. Panel manufacturers will guarantee the performance for each individual module and replace defective modules per the terms of warranty. Panels can therefore be sold for a price higher than their scrap value. In general, the highest component value would be expected at the time of construction with declining value over the life of the Project. Over most of the Project's life, components such as the solar panels value over the life of the Project. Over most of the Project's life, components such as the solar panels could be sold in the wholesale market for reuse or refurbishment. As panel efficiency and power production decrease due to aging and/or weathering, the resale value will decline accordingly. Secondary markets for used solar components include other utility scale solar facilities with similar designs that may require replacement equipment due to damage or normal wear over time; other buyers (e.g., developers, consumers) that are willing to accept a slightly lower power output in return for a significantly lower price point when compared to new equipment. The solar facility's additional supporting components, such as inverters, transformers, racking and piles, can be dismantied and resold for scrap value. Inverters and transformers are comprised of salvageable materials such as copper, aluminum, and silver. Piles and other steel components can likewise be recovered and salvaged. Resale values at the end of Year 20 for equipment of significant value were calculated with straight-line depreciation after an instant depreciation of the original material cost. A current sampling of reused solar panels indicates a wide range of prioring depending on age and condition (\$0.10 to \$0.50 per watt). Future prioring of solar panels is difficult to predict currently, due to the relatively young age of the market, changes to solar panel technology, and the ever-increasing product demand. Using straight line depreciation, a conservative estimation of the value of solar panels in Year 20 at \$0.05 per watt would yield approximately \$3,698,544. Increased costs of removal, for resale versus salvage, would be expected to preserve the integrity of the panels; however, the net revenue would still be substantially higher than the estimated salvage value. The resale value of components such as trackers, may decline more quickly; however, the salvage value of the steel that makes up a larger portion of the tracker is expected to stay at or above the value used in this report. The price used to value the steel in this report is \$160 per ton (\$0.08 per lb). The price used to value copper in this report is \$2.70 per lb. Total probable salvage value of decommissioning is estimated to be \$4,891,800. **Responsible Party Contact Information** Pine Gate Renewables Attn: Operations and Maintenance Manager Contact: 130 Roberts Street Asheville, NC 28801 Address: Phone Number: 855-969-3380 utility@pgrenewables.com Email:

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EXHIBIT C	



## **130 ROBERTS STREET** ASHEVILLE, NC 28801

SHEET NAME:

APP-101

SHEET NUMBER:

APPENDIX -DECOMMISSIONING PLAN