



**REENERGY HOLDINGS**  
**ENERGY SOLUTION BY REWIRE**



# INVESTIGATION OF SOLAR OPTIONS AND ECONOMICS FOR RENEWABLE ENERGY DIVERSIFICATION

## PROJECT OVERVIEW

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ReEnergy is a large owner and operator of facilities that use forest-derived woody biomass and other wood waste residues to produce homegrown, renewable energy. It also owns facilities that recycle construction and demolition material. ReWire was hired to determine the viability of 5MW to 20 MW solar system options at one of its generating facilities in Upstate NY. The research and analysis included review of possible off-takers, financial feasibility, current proposals from solar installers and inverter manufacturers as well as development of ReEnergy internal financial models.

## CUSTOMER GOALS

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Our client needed to quickly investigate the impact of the integration of solar generation with its current biomass generation. Their goals were to determine if there was an economically viable solar development project opportunity for ReEnergy; identify and assess various inputs (state incentive programs, federal tax incentives, off-taker agreements) needed to produce the recommended result; provide a strategic process that would allow ReEnergy to develop a successful solar integration.

## SOLUTION

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We created the analytical tools the company needed to make operational decisions. We collaborated with the ReEnergy team to capture the required information and strategic input; mapped strategic process regarding the project based on ReWire's knowledge base, compiled research, conversations with potential off-takers and various communication with NY-Sun/NYSERDA.

ReWire documented various considerations on the economic viability, inputs (revenue, cost and incentives) examined the viability of the proposed system; matched the state, local and federal incentives; delivered the appropriate implementation structure to maximize both near term and long-term financial goals; investigated various financing sources and structures and their effect on returns.

## RESULTS

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With the client's goal being to grow its revenues by adding flexible renewable energy sources – specifically resilient solar power, ReWire presented a business case for ReEnergy to have biomass providing renewable base load generation while adding solar power with dispatchable battery storage capacity.