

# **Cost-Benefit Analysis for MAC Solar, LLC/i.on renewables, LLC**

Prepared by Town of Brookhaven using InformAnalytics

# Executive Summary

**INVESTOR**  
**MAC Solar, LLC/i.on renewables, LLC**

**TOTAL INVESTED**  
**\$2.4 Million**

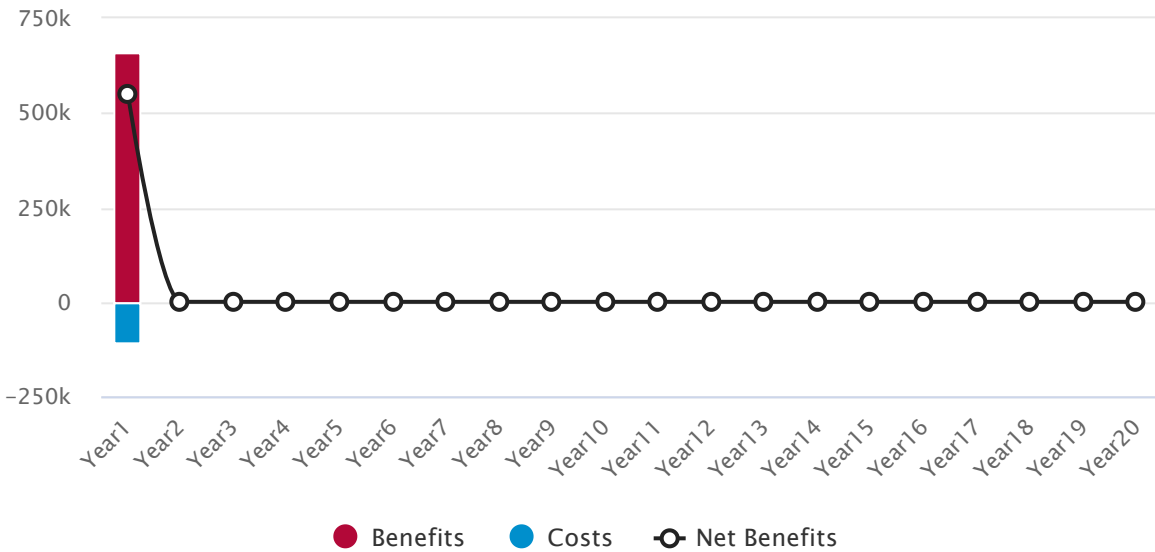
**LOCATION**  
**161 Moriches Middle County Road Moriches, NY**

**TIMELINE**  
**20 Years**

F1 FIGURE 1

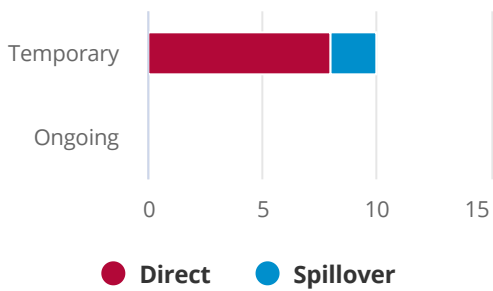
Discounted\* Net Benefits for MAC Solar, LLC/i.on renewables, LLC by Year

Total Net Benefits: **\$550,000**



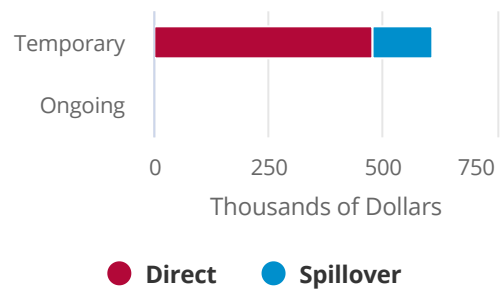
F2 FIGURE 2

**Total Jobs**



F3 FIGURE 3

**Total Payroll**



# Proposed Investment

MAC Solar, LLC/i.on renewables, LLC proposes to invest \$2.4 million at 161 Moriches Middle County Road Moriches, NY over 20 years. Town of Brookhaven staff summarize the proposed with the following: Proposed 1,170 kw DC solar car port array to be located at the parking lot of the Town of Brookhaven's Moriches Athletic Complex in Moriches. We expect that this project will be completed in a timely fashion. As per our Uniform Project Evaluation Criteria Policy, the criteria met for this project include, but are not limited to, advances renewable energy production goals and capital investment by the applicant.

T1 TABLE 1

## Proposed Investments

Description	Amount
<b>CONSTRUCTION SPENDING</b>	
Construction of a 1,170 kw DC solar array	\$1,153,000
<b>OTHER SPENDING</b>	
machinery and equipment	\$1,250,000
<b>Total Investments</b>	<b>\$2,403,000</b>
Discounted Total (2%)	\$2,403,000

May not sum to total due to rounding.

F4 FIGURE 4

## Location of Investment



# Cost-Benefit Analysis

A cost-benefit analysis of this proposed investment was conducted using InformAnalytics, an economic impact model developed by CGR. The report estimates the impact that a potential project will have on the local economy based on information provided by Town of Brookhaven. The report calculates the costs and benefits for specified local taxing districts over the first 20 years, with future returns discounted at a 2% rate.

T2 TABLE 2

## Estimated Costs or Incentives

Town of Brookhaven is considering the following incentive package for MAC Solar, LLC/i.on renewables, LLC.

Description	Nominal Value	Discounted Value*
Sales Tax Exemption	\$108,000	\$108,000
<b>Total Costs</b>	<b>\$108,000</b>	<b>\$108,000</b>

**May not sum to total due to rounding.**

\* Discounted at 2%

### State & Regional Impact (Life of Project)

The following table estimates the total benefits from the project over its lifetime.

Description	Direct	Spillover	Total
<b>REGIONAL BENEFITS</b>	<b>\$484,000</b>	<b>\$136,000</b>	<b>\$620,000</b>
<b>To Private Individuals</b>	<b>\$477,000</b>	<b>\$134,000</b>	<b>\$611,000</b>
Temporary Payroll	\$477,000	\$134,000	\$611,000
<b>To the Public</b>	<b>\$6,000</b>	<b>\$2,000</b>	<b>\$8,000</b>
Temporary Sales Tax Revenue	\$6,000	\$2,000	\$8,000
<b>STATE BENEFITS</b>	<b>\$30,000</b>	<b>\$8,000</b>	<b>\$39,000</b>
<b>To the Public</b>	<b>\$30,000</b>	<b>\$8,000</b>	<b>\$39,000</b>
Temporary Income Tax Revenue	\$25,000	\$7,000	\$31,000
Temporary Sales Tax Revenue	\$6,000	\$2,000	\$7,000
<b>Total Benefits to State &amp; Region</b>	<b>\$514,000</b>	<b>\$144,000</b>	<b>\$658,000</b>
<b>Discounted Total Benefits (2%)</b>	<b>\$514,000</b>	<b>\$144,000</b>	<b>\$658,000</b>

May not sum to total due to rounding.

**Benefit to Cost Ratio**

The following benefit to cost ratios were calculated using the discounted totals.

Description	Benefit*	Cost*	Ratio
Region	\$620,000	\$58,000	11:1
State	\$39,000	\$50,000	1:1
<b>Grand Total</b>	<b>\$658,000</b>	<b>\$108,000</b>	<b>6:1</b>

**May not sum to total due to rounding.**

\* Discounted at 2%

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