

# Renewable Energy Program



## Project Overview

- Requesting \$3,535,00 to:
  - Increase Use/Production of Renewable Energy
  - Make Necessary Facility Improvements
- Up to \$270,000/Year in Operational Savings
- Up to \$95,000/Year in Capital Budget Offsets
- No Staff Requested

# Project Vision



Healthier  
Communities



Decreased Energy  
Expenses



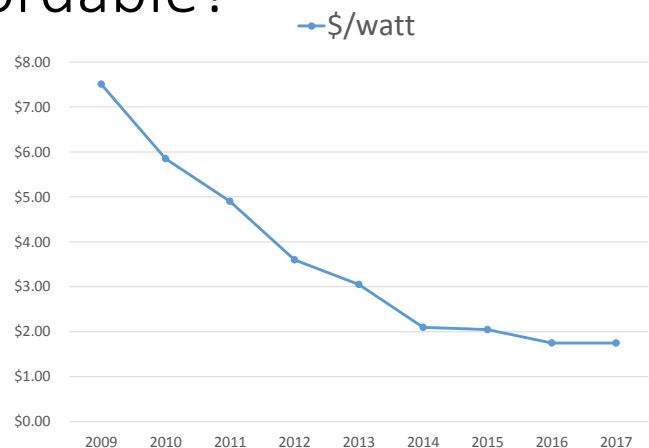
Quality  
Facilities

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## Is Solar Even Affordable?

- Solar Prices Decreased by 70% Since 2010
- Utility Prices Are Increasing
- Systems Have a Positive ROI



Source: Solar Energy Industry Association

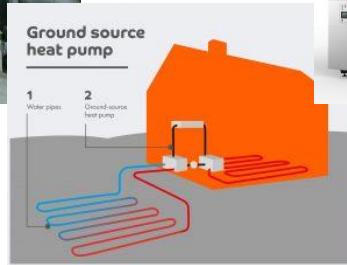
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# Are We Only Talking Solar?



**Biogas**



**Geothermal**



**Food Scrap  
Digester**

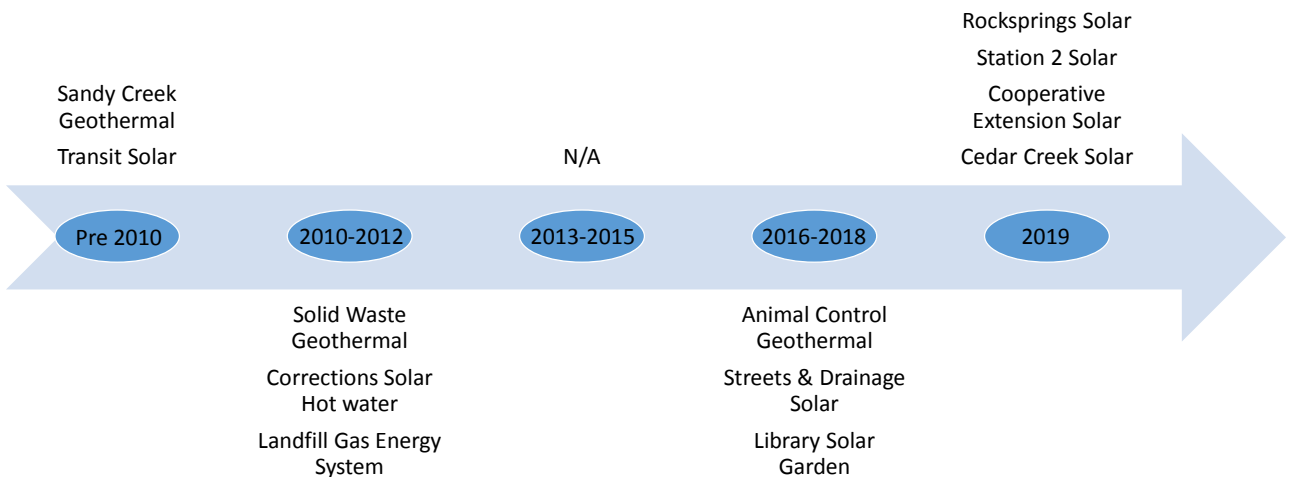


**Energy Storage**

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## What's Happened So Far?

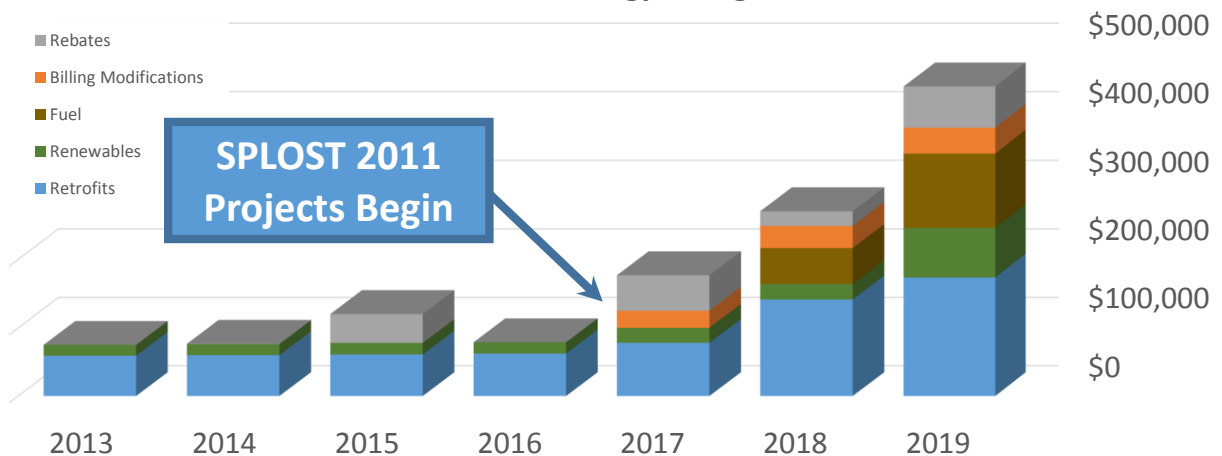


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# Impact of SPLOST 2011

Annual Energy Savings



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## Leveraging SPLOST

- SPLOST 2011 (so far)
  - \$100,000 in Solar Grants
  - \$20,000 in Utility Rebates
- Private Sector Investment
  - Happening in Atlanta & Macon
  - Possible in Athens.... But Requires Sound Facilities



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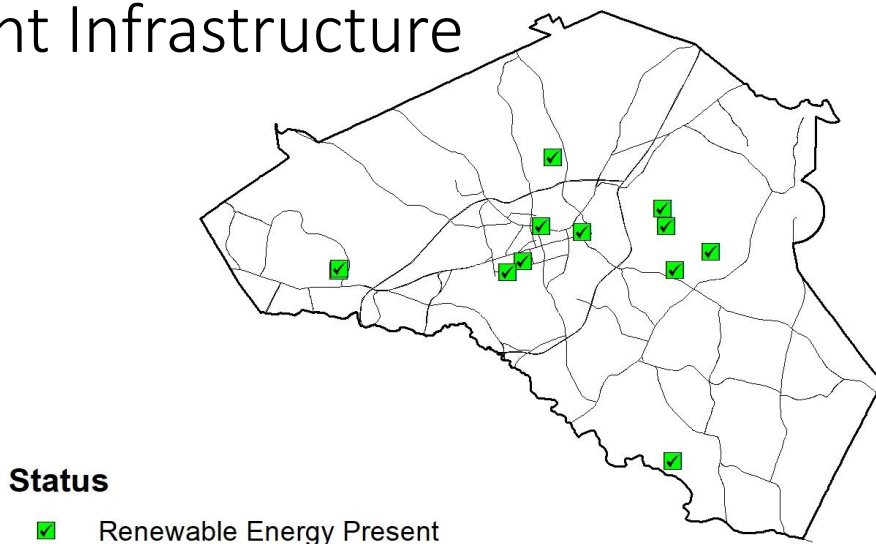
# Factors for Deployment

- Solar Deployment Index
  - 66 Sites
  - 12 Scoring Criteria – Energy Efficiency, Cost, Building Conditions, Hours of Use, Etc.
  - Building Integrity SINGLE BIGGEST Factor
    - 80% Deferred for Roof Conditions

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## Current Infrastructure



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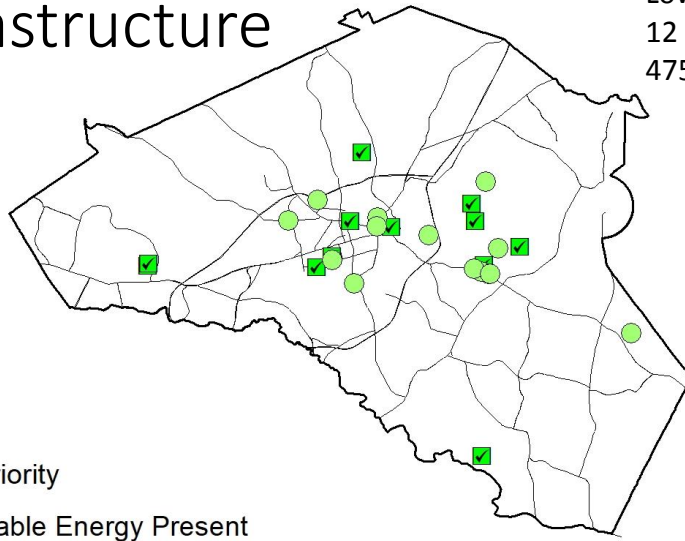
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# Current Infrastructure

Low Hanging Fruit  
12 Locations  
475 KW of Demand

## Status

- High Priority
- ✓ Renewable Energy Present



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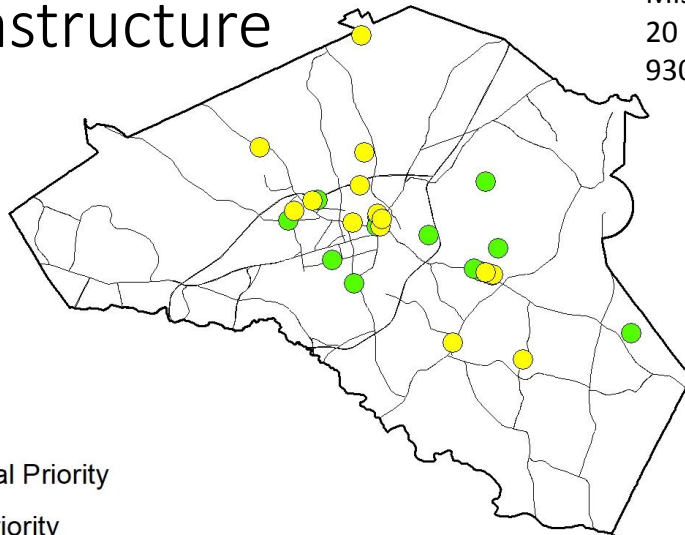
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# Current Infrastructure

Missed Opportunity  
20 Sites  
930 KW of Demand

## Status

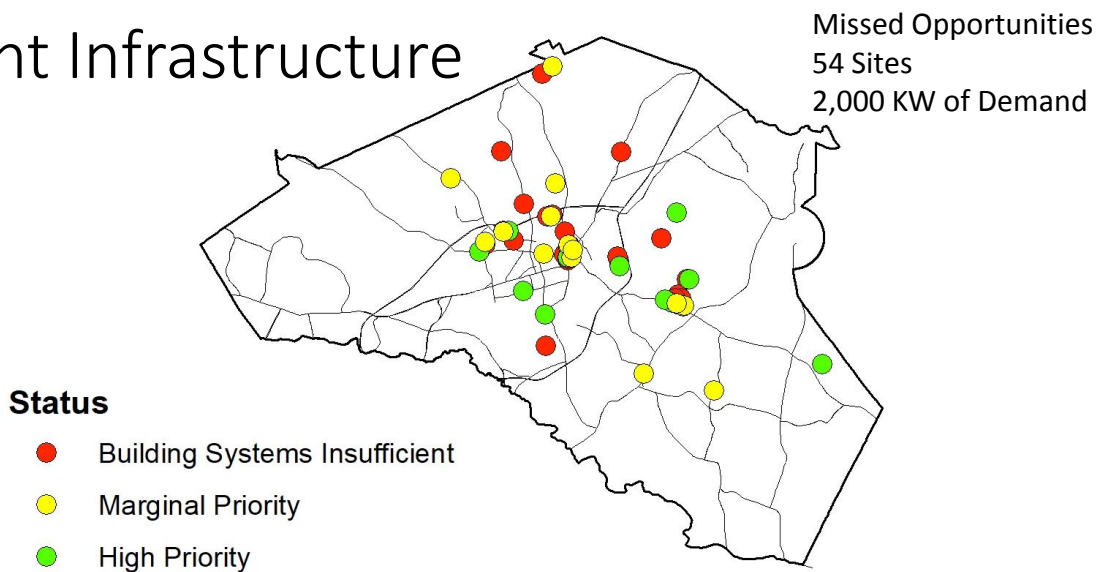
- Marginal Priority
- High Priority



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# Current Infrastructure



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## Project Implementation

- Phase I – Site Selection
  - Select Ideal Energy Type
  - Target Long-Term Buildings & Big Consumers
- Phase I – Building Preparation
  - Complete Conservation Measures
  - Make Necessary Repairs and Upgrades



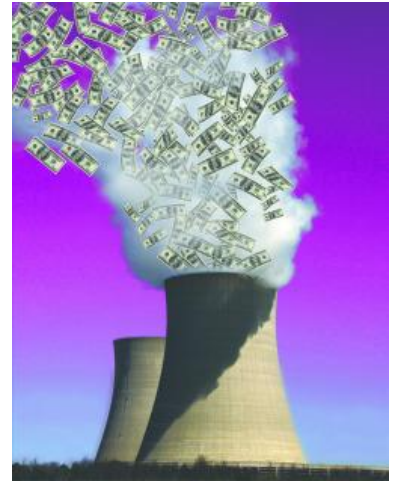
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# Project Implementation

- Phase III – Deployment
  - Leverage SPLOST Funding
  - Deploy Renewable Systems
- Phase IV – Reap the Rewards
  - Avoid Utility Increases
  - Mobilize Savings for Better Government



# Why Use SPLOST Funding?

- ACCGOV Energy Spending Impacts Everyone
  - Property Tax Payers
  - Water Customers
  - Sales Tax Payers
- Significant Capital Funding is Necessary
- Federal Credits Do Not Apply
- SPLOST Investment Grows Over Time





# Summary

- This Project Stewards Existing Resources
- This Project DECREASES Operating Expenses
- This Project Benefits the Whole Community
- This Project Protects the Environment
- The Time to Act is Now