

Carolina Blue Skies & Green Jobs Initiative

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Overview

Timeline

- Start Date: May 1, 2010
- End Date: April 30, 2014
- Percent Complete
 - 21% Funds Spent
 - 65% NEPA Submitted and/or Approved
- Budget: \$31,536,659
 - \$12,004,174 Federal(15% operating/marketing)
 - \$19,532,485 Contractor

Barriers & Risks

- Economic Downturn
- NEPA & Contract Delays
- Availability of EPA-Verified Technology

Partners

- Five investigative leads
- Thirty-four partners to date (divided by clean cities region)













Objective & Impact

The Carolina Blue Skies & Green Jobs Initiative is a bistate effort to create and retain green collar jobs & reduce dependence on foreign oil by increasing availability and use of alternative fuels in North and South Carolina.

Impact May 2010 - March 2011

- 6.7 FTE retained; .6 FTE created
 - (based on FederalReporting.gov allowable calculations—does not account for downstream job creation)
- 59,000 gallons petroleum displaced
- Allowed local governments and businesses to invest in green, money-saving technologies that they would not otherwise be able to do due to the economic downturn.

Results: increased economic activity and long-term economic growth



Technical Approach

- Three-phased program (phases may be concurrent)
 - Phase I: Execute sub-awards, obtain NEPA approval, deploy vehicles and infrastructure, train end users
 - Phase II: Conduct outreach and education to end-users, other stakeholders, and general public about the benefits of alternative fuels; promote program successes through media outreach
 - Phase III: Data gathering and monitoring of projects

Overcoming Barriers

- Found like replacements for 10 of the 13 original partners that have withdrawn
- As some projects come in under-budget, extra funding is available to expand scope of work and potential petroleum displacement
- Innovation Drive consulting firm helped overcome start-up barriers



Milestones

Project Management	Projected Date
Milestone 1.1: All subcontract agreements with project partners are finalized.	May 2011
Milestone 1.2: Revised PMP finalized.	June 2010
Milestone 1.3: All NEPA submitted and approved.	July 2011
Vehicles (Task 2) & Infrastructure	
Milestone 2.1 & 3.1: 50% of vehicles & infrastructure deployed	August 2011
Milestone 2.2 & 3.2: 100% of vehicles & infrastructure deployed	April 2012
Training	
Milestone 4.1: 50% of training to applicable audiences completed	October 2011
Milestone 4.2: 100% of training to applicable audiences completed	October 2012
Marketing & Outreach	
Milestone 5.1: Conduct first 2 workshops, complete all templates for brochures, fact sheets, and other marketing materials	April 2013
Milestone 5.2: Conduct remaining workshops, complete Drive Clean & Green Tour	April 2014

Technical Accomplishments and Progress

In ten months of program startup, Carolina Blue Skies has:

- Executed 33 sub-awards
 - 28 individual projects
 - 5 administrative leads
- Negotiated change/expansion of scope with 8 project partners
- Identified 10 new partners (pending sub-award execution)
- Obtained NEPA approval for part or all of 28 projects



Electric Vehicle Charging Stations
Deployed in South Carolina

Technical Accomplishments and Progress

In the past ten months, Carolina Blue Skies has:

- Deployed 28 vehicles and 21 alt fuel stations
- Displaced over 59,000 gallons of petroleum
- Created or retained 7.3 jobs





Piedmont Biofuels
Grand Opening

Technical Accomplishments and Progress

Fayetteville Neighborhood Electric Vehicle







God Bless The USA, Inc. Hydraulic Hybrid Waste Collector (above)

Guilford County Hybrid Electric Vehicle Fleet (left)



Collaborations/Partnerships

- Investigative Leads
 - Provide technical and administrative support to primary lead
 - Organize & participate in training activities
 - Serve as liaison to project partners in respective regions
 - Serve on Program Committee









Triangle

Clean Cities Coalition



Collaborations/Partnerships

- Piedmont Biofuels
- Forest Foundation
- Chatham County
- Orange County
- NC Propane Gas Association
- Mainor Legacy
- City of Fayetteville
- Town of Knightdale
- Advanced Energy
- City of Raleigh
- Durham County
- Robeson County
- Greenwood County
- City of Rock Hill
- Midlands Biofuels
- OM Biofuels LLC
- North Carolina State University

- City of Hendersonville
- Mission Hospital System
- City of Asheville
- City of Winston-Salem
- City of Greensboro
- City of Rocky Mount
- Guilford County
- City of Charlotte
- Duke Energy
- Time Warner Cable/Roush
- Monroe Oil
- God Bless America
- Palmetto Gas
- Plug In Carolina
- Spinx Company
- University of South Carolina
- Innovation Drive (consultant)

Future Work: FY 2010-2011

- Complete execution of subawards with new project partners
- Submit remaining NEPA for approval
- Continue to organize ribbon-cuttings and media outreach for completed projects
- Complete development of training and outreach materials
- Execute training for partners
- Consult on vehicle purchases and infrastructure projects as needed
- Organize regular calls with investigative leads



Program Summary

The Carolina Blue Skies & Green Jobs Initiative is *projected* to:

- Create/retain over 120 jobs from ARRA funds using current ARRA methodology
- Displace over 3.7 million gallons per year of gasoline gallon equivalents at project completion.

Progress as of March 2011:

- Multiple vehicles and alternative fuel stations operational
- Thousands reached via media, education, and online exposure
- Jobs created and retained with Federal funding