

ACCS I-CARE Initiative: Outputs, Outcomes, and Performance Measures

GHG Reduction Measure	No.	Outputs	Related Outcomes
Transportation	A1	200 Electric Vehicles Purchased and Implemented at ACCS Colleges	B1i, B2i, B3-B9, B12,
	A2	17 Hybrid Vehicles Purchased and Implemented at the ACCS System Office (Leased Facility; Not Permitted to Install Chargers)	B1i, B2i, B3-B9, B13, B16
	A3	96 Electric Vehicle Charging Stations Added to College Campuses	B1i, B2i, B3-B9, B15
	A4	200 Gasoline- and Diesel-Powered Vehicles Decommissioned	B1i, B2i, B3-B6, B14,
Buildings	A5	15 College Buildings Renovated for Energy Efficiency	B1ii, B2ii, B3-B9, B17,
	A6	6 College Campuses Equipped with Individual Building Utility Meters	B1ii, B2ii, B3-B9, B19
Electric Power	A7	1 Solar Microgrid Installed at the Alabama Energy Training Center at Beville State Community College	B1iii, B2iii, B3-B9,
	A8	Training Curriculum Developed for Microgrid and EV Charger Operations and Maintenance	B21
	A9	10 Classes Taught in Renewable Energy (Microgrid) Operations and Maintenance	B21
All 3 Measures	A10	4 New High-Quality Jobs Created to Administer the Project and Advance Energy-Efficiency Policies and Practices Across ACCS (Buildings and Electric Power: 3; Transportation: 1)	B7-B9
	A11	1 Statewide I-CARE Awareness Campaign Implemented	B11
	A12	20 Community Workshops Conducted on Electric Vehicles, Home Energy- Efficiency and Community Energy Resilience (Transportation and Buildings: 18; Transportation and Electric Power: 2)	B10-B11

GHG Reduction Measure	No.	Outcomes	Related Performance Metrics
All 3 Measures	B1	8,784 Metric Tons Reduction in GHG (CO ₂ e) Emissions - 2025 through 2030 (TOTAL)	C6, C10, C12
	i	4,248 Metric Tons Reduction in GHG (CO ₂ e) Emissions - 2025 through 2030 (Transportation)	C6
	ii	3,668 Metric Tons Reduction in GHG (CO ₂ e) Emissions - 2025 through 2030 (Buildings)	C10
	iii	868 Metric Tons Reduction in GHG (CO ₂ e) Emissions - 2025 through 2030 (Electric Power)	C12
	B2	53,450 Metric Tons Reduction in GHG (CO ₂ e) Emissions - 2025 through 2050 (TOTAL)	C6, C10, C12
	i	23,871 Metric Tons Reduction in GHG (CO ₂ e) Emissions - 2025 through 2050 (Transportation)	C6
	ii	21,765 Metric Tons Reduction in GHG (CO ₂ e) Emissions - 2025 through 2050 (Buildings)	C10
	iii	7,814 Metric Tons Reduction in GHG (CO ₂ e) Emissions - 2025 through 2050 (Electric Power)	C12
	B3	Reduction in Co-Pollutant Emissions in General (CAPs - Quantification Not Required in Application)	C6, C10, C12
	B4	Reduction in Co-Pollutant Emissions in LIDACs (CAPs - Quantification Not Required in Application)	C6, C10, C12
	B5	Improvement in Air Quality Across State of Alabama ¹	C19
	B6	Improvement in Incidence and Mortality Asthma Rates Across State of Alabama ¹	C20, C21
	B7	4 High-Quality Jobs Created (New Grant-Funded Project Management Jobs; Buildings and Electric Power: 3, Transportation: 1)	C15
	B8	4 High-Quality Jobs Created in LIDACs (Same As Above; Location: Census Tract 01101000200)	C15
Transportation	B9	28-Person Increase in ACCS Staff Trained to Implement, Monitor, and Assess GHG Reduction Measures (4 at System Office, 24 at Colleges)	C22
	B10	Increased Levels of Community Engagement in All College Service Areas (35 Counties Face-to-Face, 32 Counties Digital) ²	C16, C18
	B11	Increased Levels of Community Awareness of Energy-Efficiency Strategies and/or Benefits of Clean and Renewable Energy Statewide (Statewide) ³	C17
	B12	200-Unit Expansion of EVs in ACCS Fleet (XX% of Fleet)	C1
	B13	17-Unit Expansion of Hybrid Vehicles in ACCS System Office Fleet	C1
Buildings	B14	200-Unit Reduction of Gas/Diesel-Powered Vehicles in ACCS Fleet	C2
	B15	96-Unit Expanded EV Charging Station Infrastructure Across State of Alabama	C3
	B16	20% Reduction in Annual Gasoline/Diesel Fuel Consumption and Costs Across ACCS	C4, C5
Electric Power	B17	1,295,293 kWh Reduction in Campus Energy Consumption Annually by 2030	C10
	B18	Increased Safety, Comfort, and Healthier Environment in 15 Renovated Buildings	C7, C9
	B19	New Access to Building-Level Data on Energy Usage on 6 College Campuses	C8
	B20	50% Increase in Microgrid Installations in Alabama	C11
	B21	100-Worker Increase in State's Skilled Renewable Energy Workforce	C14
	B22	Increased Energy Resilience at Bevill State Community College	C11, C12
	B23	2 Complete Training Curriculums Developed for Microgrid and EV Charger O&M	C13

Footnotes:

1) Qualitative outcome that cannot completely be attributed to the project activities alone.

2) Qualitative outcome to be assessed by outreach activity participation. See goals in corresponding performance metric(s).

3) Qualitative outcome to be assessed by surveys and other assessments. See goals in corresponding performance metric(s).

GHG Reduction Measure	No.	Performance Metrics			
		Description	Goal	Tracking Method	Assessment Methods
Transportation	C1	Electric Vehicles and Hybrid Vehicles Purchased and Placed In Service	217	Subgrants to colleges tracked using grant-management software at ACCS System Office; Purchase orders and vehicle inventory additions recorded in Capital Assets file records of Banner ERP System	Review of grant-management software reports and physical count of vehicle additions to Capital Assets in Banner ERP system
	C2	Gasoline/Diesel Vehicles Removed from Service	200	Vehicle decommissionings entered in Capital Assets records of Banner ERP System	Physical count of vehicle decommissionings in Capital Assets in Banner ERP System
	C3	EV Charging Stations Purchased and Installed on College Campuses	96	Subgrants to colleges tracked using grant-management software at ACCS System Office and charging station inventory tracked using financial management module of the Systemwide ERP system (Banner)	Purchases and charging station inventory reports pulled from grants management software and Banner and compared to project workplan and timeline
	C4	Gallons of Gas/Diesel Fuel Purchased Annually	20% Reduction	Vehicle fuel purchases recorded by Colleges and System Office in Banner.	Vehicle fuel purchase reports pulled from Banner bi-annually and annually, reviewed and analyzed against historical reports to calculate % reduction
	C5	Dollars Spent on Gas/Diesel Fuel Annually	20% Reduction	Vehicle fuel purchases recorded by Colleges and System Office in Banner. <i>Goal represents \$1,316,350 Yearly by 2028</i>	Vehicle fuel purchase reports pulled from Banner bi-annually and annually, reviewed and analyzed against historical reports to calculate % reduction
	C6	Miles Driven in Electric and Hybrid Vehicles	2,495,500	Vehicle odometer readings entered by colleges in online reporting tool. <i>Goal is based on an average of 11,500 miles driven per year as given by EPA for typical passenger vehicles.</i>	Reports prepared bi-annually and annually using online reporting tool data
	C7	Energy-Efficiency Building Renovations Completed	15	Subgrants to colleges tracked using grant-management software at ACCS System office. Project management tools utilized to plan and track progress.	Completion of final inspection walk-throughs
	C8	Campuses Equipped with Individual Building Meters	6	Subgrants to colleges tracked using grant-management software at ACCS System office. Project management tools utilized to plan and track progress.	Physical inspection on each campus

Buildings	C9	Building Occupant's Comfort, Safety, and Health	>=1 point increase in ratings on each measure	Pre- and post-renovation survey of students, faculty and staff that rates, on a scale of 1 to 5, the respondents perceptions of comfort, safety, and healthy environment of the building.	Analysis of average ratings for each measure on pre-renovation versus post-renovation surveys.
	C10	Annual Energy Consumption Reduction of Renovated Buildings	1,295,293 kWh by 2030	Monthly readings of individual building meters entered by colleges into online reporting tool and submitted to ACCS monthly. <i>Detailed projections include gradually increasing energy consumption reduction goals by year.</i>	Reports prepared bi-annually and annually using online reporting tool data
Electric Power	C11	Microgrids Built, Installed, Tested, and Commissioned	1	Subgrant issued to college and project progress tracked through grant-management software and project management tools	Final inspection and testing performed on-site
	C12	Annual Energy Consumption Reduction due to Microgrid Installation	497,139 kWh by 2030	Microgrid energy system management data. <i>Detailed projections include gradually increasing energy consumption reduction goals by year.</i>	Review and compilation of monthly data for semi-annual and annual reporting.
	C13	Renewable Energy (Microgrid) Curriculum Developed	2	Electronic copies of course outlines, lesson plans, and assessments for Solar Microgrid and EV Chargers curriculum.	Review of electronic documents
	C14	Students Trained in Clean and Renewable Energy Operations and Maintenance	100	Student tracked through course registration and completion records.	Review and compilation of student enrollments and completions data
All 3 Measures	C15	Staff Hired to Manage Project	4	HR records of employment	Supervisor ensures positions have been filled
	C16	Number of: Community Workshops Conducted / Counties Reached / LIDACs Reached / Total Attendees	20 / 35 / 425 / 3,500	Copies of presentation materials and sign-in sheets with names and addresses of attendees	Summary report created from manual review and analysis of workshop documentation
	C17	Change in Workshop Attendees' Awareness of Energy Efficiency Strategies and Benefits of Clean and Renewable Energy	Awareness Increased in 100% of Survey Respondents	Workshop attendees' completion of electronic surveys gauging pre- and post-workshop knowledge of (a) energy-efficiency strategies for buildings, (b) benefits electric vehicles, and (c) benefits of microgrids	Analysis of change in respondent's answers to specific questions pre-workshop versus post-workshop
	C18	Awareness Campaign Updates Delivered	250 (2 times per year for 5 years by 24 colleges and ACCS)	Electronic copies of updates submitted to project manager at ACCS bi-annually	Electronic copies of updates reviewed by project manager and check-off sheet completed to ensure full participation
	C19	Annual Air Quality Index Median Rate for Each Alabama County	>= 1 Point Reduction Achieved by 2030	Annual EPA Air Quality Index Report (https://www.epa.gov/outdoor-air-quality-data/air-quality-index-report)	EPA report reviewed annually and results for each county downloaded in CSV file for project records. Year 5 results entered in final report for the grant.

	C20	Alabama's Asthma Incidence Rate	<=10.0% (0.1 percentage point reduction) by 2030	Centers for Disease Control (CDC) Most Recent Asthma State or Territory Data - Adult Prevalence Report (https://www.cdc.gov/asthma/most_recent_data_states.htm)	CDC report reviewed annually and results for states downloaded in CSV file for project records. Year 5 result for Alabama entered in final report for the grant.
	C21	Alabama's Annual Asthma Mortality Rate (Adjusted Death Rate Per Million)	<=11.5 (0.1 point reduction) by 2030	Centers for Disease Control (CDC) Most Recent Asthma State or Territory Data - Mortality Report (https://www.cdc.gov/asthma/most_recent_data_states.htm)	CDC report reviewed annually and results for states downloaded in CSV file for project records. Year 5 result for Alabama entered in final report for the grant.
	C22	I-CARE implementing team members' knowledge and skill in implementing, managing, and assessing GHG reduction measures	Knowledge and skill increased in 100% of team members by Year 5	Team members' knowledge and skills assessed at project orientation meeting and project conclusion meeting with electronic survey tool.	Pre- and post-survey results analyzed to determine gains in knowledge and skill for each team member.