

South Shore Clean Cities

Natural Gas for Transportation
Roundtable

November 6, 2019

South Shore Clean Cities, Inc.



About South Shore Clean Cities

SSCC -- headquartered in Crown Point, Indiana -- is a 501(c)(3) nonprofit organization managed by Legacy Environmental Services, Inc., an Indiana Certified Women's Business Enterprise.

Designated as the 71st Clean Cities coalition on June 15, 1999, SSCC is one of the U.S. DOE's nearly 100 Clean Cities coalitions across the country.



Our Mission



“South Shore Clean Cities is a member-based coalition dedicated to promoting fuel- & technology-neutral sustainable transportation and clean energy options in Indiana. We guide our diverse membership base in the public, private and nonprofit sectors to increase the use and implementation of sustainable transportation methods and infrastructure. Our programs improve air quality, promote domestic fuels, strengthen the nation’s energy security, reduce dependence on imported oil and support local jobs and the local economy.”

By The Numbers

In the last decade alone, South Shore Clean Cities members have reduced greenhouse gas emissions **by 607,000 tons** and reduced the number of gasoline gallon equivalents by **93 million gallons**.

That is the equivalent of removing **175,500 passenger vehicles** from the road for one year and eliminating the use of nearly **2 million barrels of oil**.





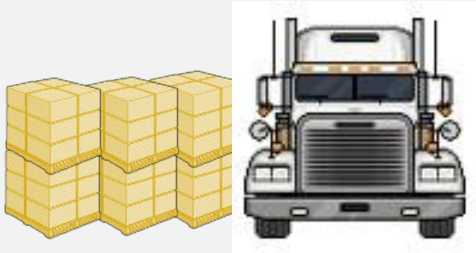
How do we do it?



PARTNERSHIPS!

Transportation is a large part of our Energy Economy

Annually



11 billion
Tons goods



Over **3** Trillion
Miles



Transportation is
the **2nd** largest
expense for U.S.
households



70% of total
U.S. petroleum
usage is for
transportation

On-road vehicles
account for
85% of
transportation
petroleum usage

Other sustainable transportation benefits

- Increased national energy security
- Less dependence on imported oil
- Increased energy resiliency in times of natural disaster or crisis
- Increased support for American farmers
- Investment in domestic fuels
- Increased support for American jobs

Better overall quality of life!





How did SSCC begin? Early support from NIPSCO

The seeds of SSCC were planted in the late 1990s by leadership at NIPSCO.

The public utility provided support for SSCC to successfully achieve nonprofit status and to be formally recognized by the U.S. Department of Energy as a Clean Cities coalition.





Ongoing Projects





MACOG & NIRPC Green Fleet Program

- SSCC manages the MACOG Green Fleet Program & the NIRPC Green Fleet Program
- Goal: To improve the environmental performance of public, private and nonprofit vehicle fleets in the MACOG & NIRPC seven-county territory.
- SSCC guides the **58 municipal, county school & university member fleets** to help mitigate barriers to preventing the adoption of sustainable transportation options while creating policies supporting vehicle emission & petroleum use reductions.





How does the Green Fleet program work?

- Educational opportunities including fuel & technology workshops, trainings & seminars
- Recognition & certification for fleet leaders taking steps to improve environmental performance & efficiency
- Branding & promotional tools to help fleets leverage earned certification status
- Informational resources including current technology options, market conditions, laws & incentives
- Connections with vendors offering sustainable transportation options
- Funding assistance with grant opportunities and other state and federal incentive programs
- **Professional consultation including a Green Fleet audit and emissions quantification.**

What is a Green Fleet audit?

South Shore Clean Cities staff conducts a complete fleet analysis, including:

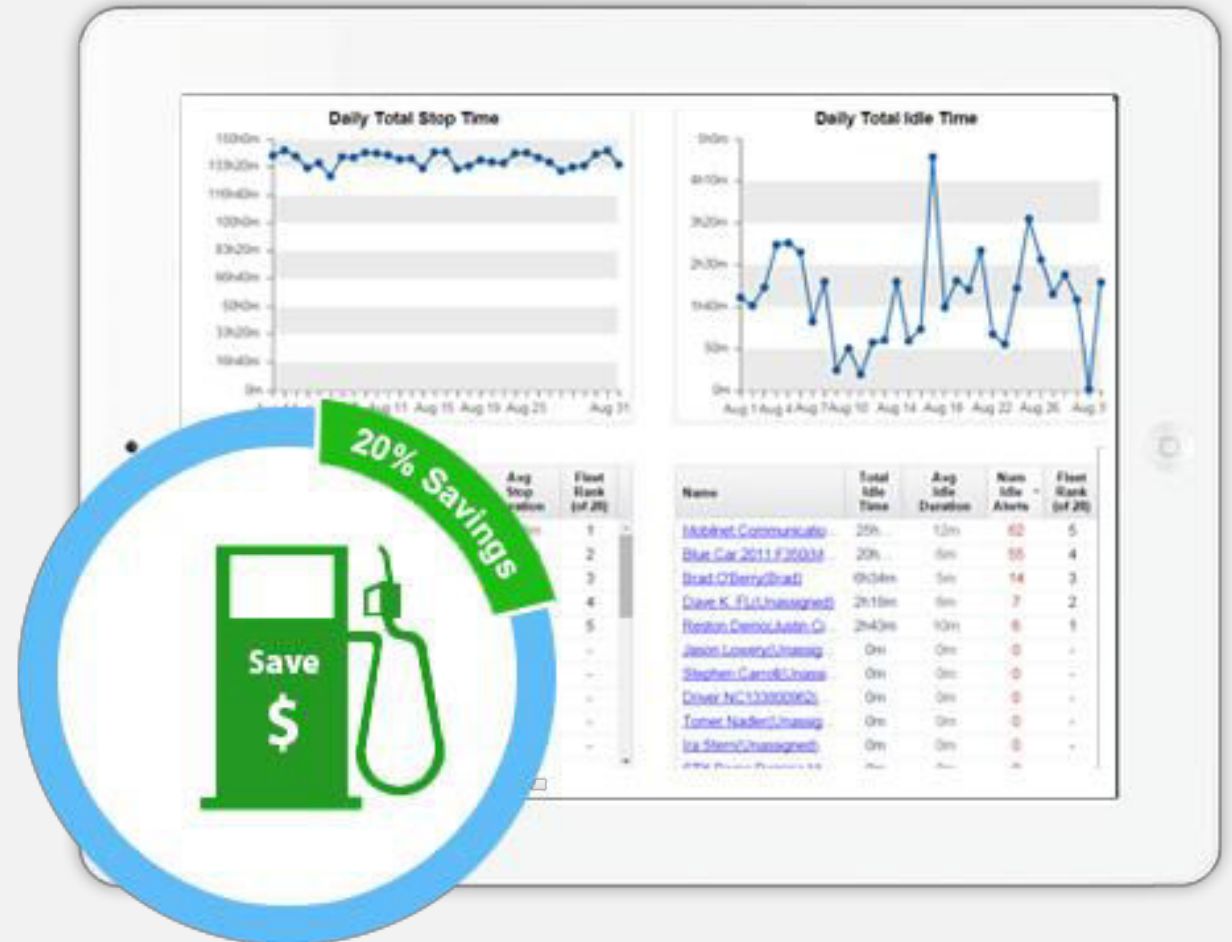
- Annual fuel usage
- Annual miles traveled & hours used
- Total number of vehicles & equipment
- Vehicle & equipment type, make & model
- Fuel type
- Average vehicle and equipment life
- Down time for fueling and maintenance



Green Fleet Audit

South Shore Clean Cities staff then provides a complete fleet analysis in a written Green Fleet audit report, including:

- Cost comparisons for various sustainable fuel and vehicle types
- Availability and location of fueling options
- Personalized recommendations for short- and long-term fleet purchase plans
- Provide total cost of ownership and return on investment analysis
- Suggestions for implementing cost-saving programs & training such as idle reduction
- Information on potential funding opportunities to best leverage sustainable transportation investments



Green Fleet Audits = \$\$\$

The Green Fleet Audit provides critical information needed for grant funding applications & allows South Shore Clean Cities to best understand our members needs, goals, plans & challenges



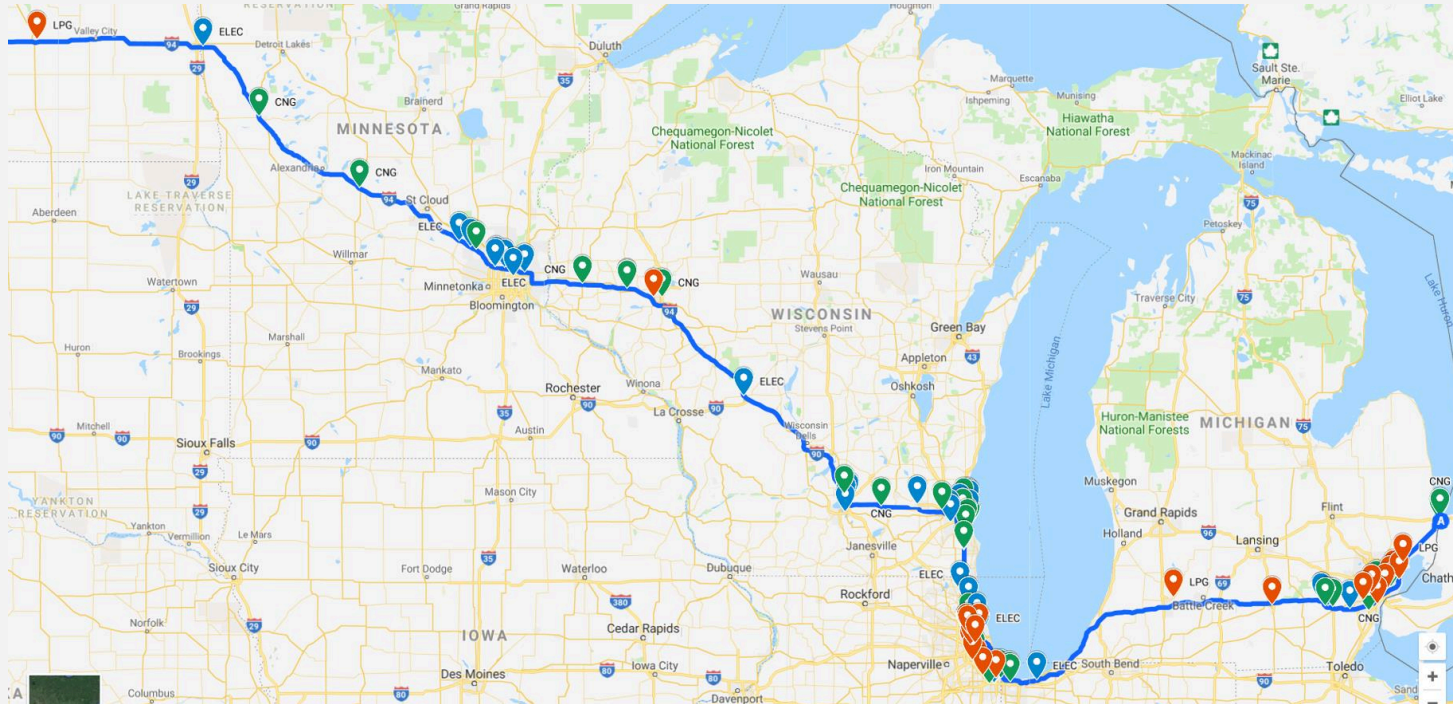
Michigan to Montana I-94 Clean Fuel Corridor

The Michigan to Montana I-94 Clean Fuel Corridor project seeks to ensure a 1,500-mile span of I-94 from Port Huron, Mich. to Billings, Mont. will have adequate fueling sites to serve sustainable transportation driver needs.



Michigan to Montana I-94 Clean Fuel Corridor

- The M2M project, led by Gas Technology Institute through a \$4.9 million U.S. Department of Energy grant awarded in December 2016, is being facilitated in partnership with Clean Cities Coalitions along the M2M route, including South Shore Clean Cities.
- The coalitions are working to give public & private fleets & individual drivers more options to fuel with cleaner alternatives.



M2M Signage Installed Along I-94 in Indiana

As of June 2019, INDOT installed signs along I-94 in Indiana designating the route as an Alternative Fuels Corridor as a result of the M2M project.

SSCC continues to work with members & partners to help fill fueling and charging gaps along I-94.



Partnerships & Grant Acquisition



Indiana Volkswagen Environmental Mitigation Trust Fund

In 2018, SSCC partnered with IDEM & a host of MPOs across the state to present a series of seven educational events aimed at increasing education on the status of the Indiana VW Mitigation Trust program.

SSCC also partnered with IDEM for several Webinars on the subject throughout the year.





IDEM VW Grant Writing

- In 2019, SSCC **wrote more than 40 grant applications** for members & partners for the first round of Indiana VW grants.
- The IDEM VW Environmental Mitigation Trust Fund Committee on July 23, 2019 approved first round grant awards.
- SSCC members & partners were **awarded more than 62% of the total awards** approved by the committee – **more than \$6.1 million** – for projects involving **101 vehicles**, more than **56% of all vehicles funded**.

City of Hobart

SSCC assisted the City of Hobart in multiple sustainable transportation efforts, including:

- The purchase of an all-electric Nissan LEAF
- Grant funding for the purchase of 3 CNG refuse trucks
- Grant funding for the construction of a CNG fueling station
- Grant funding for the construction of a new Public Works garage to serve its CNG fleet
- The writing & direction of a video highlighting the city's sustainable transportation accomplishments.



DieselWise Indiana

SSCC successfully assisted members & partners with DieselWise Indiana grant funding for diesel engine & vehicle replacement projects aimed at reducing diesel emissions across the state.

Since 2017, SSCC wrote grant applications & conducted fleet analyses for members that led to successful DieselWise grant applications for the following **totaling \$1.2 million** for **15 vehicles** & **two CNG stations**:

- South Bend Transpo
- School City of East Chicago
- LaPorte County Highway Department
- Ozinga
- Jack Gray Transport
- Elkhart County Highway Department
- Total Disposal





U.S. EPA Diesel Emissions Reduction Act Grants

SSCC successfully assisted members with multiple DERA grant applications throughout the years, most recently with **\$1.1 million in awards** for **clean diesel semis, clean diesel ready mix trucks, CNG refuse trucks, marine repowers & clean diesel loader projects** with the 2019 DERA awards.

SSCC also successfully helped members acquire **\$160,000 through the DERA program's School Bus Rebate Program** in 2018 for the **School City of East Chicago** and the **Penn-Harris-Madison School Corporation**.





Green Fleet Radio

SSCC Executive Director Carl Lisek hosts “Green Fleet Radio,” a weekly radio show airing three times each Wednesday on Lakeshore Public Radio. The show began airing in January 2018 & hit the airwaves again Sept. 4, 2019 after a nine-month hiatus.

The show features Carl interviewing guests on topics pertaining to SSCC’s mission to broaden awareness of sustainable transportation projects & options.

The show is made possible by funding from NIRPC & includes one NIRPC staff member as a guest each month.



Green Fleet Workshops

SSCC hosts multiple NIRPC & MACOG Green Fleet workshops throughout the year aimed at educating fleet managers, drivers & operators on a variety of topics pertaining to sustainable transportation & energy options & issues.

SSCC averages 130 attendees at Green Fleet workshops annually.



SSCC Annual Meeting & Awards

SSCC hosts our Annual Meeting & Awards luncheon each February, which draws **more than 300 leaders** in the public, private & nonprofit sectors with more than 40 display booths & vehicle displays.

The event features award presentations to members who made the greatest GGE reductions over the past year.



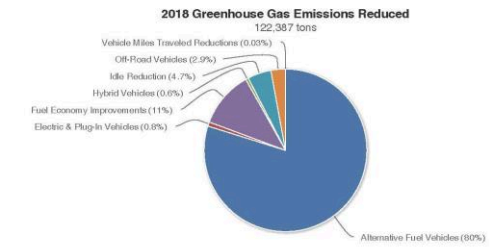
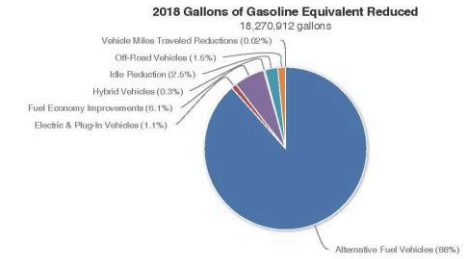


Annual Surveys & Reports

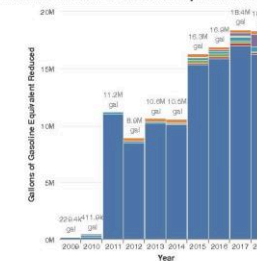
SSCC measures its success through that of its members, partners & stakeholders, who file reports annually detailing their petroleum & greenhouse gas emission reduction efforts.

The data is submitted to the U.S. DOE.

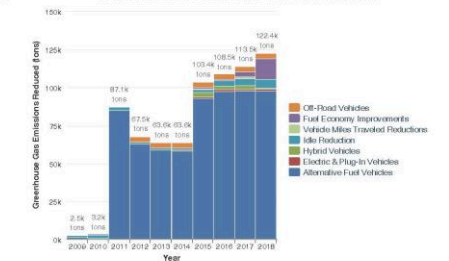
SSCC members' in 2018 reduced petroleum usage by more than **18 million gasoline gallon equivalents**, which is equal to removing more than **34,000 vehicles from the road for one year.**



Historical Gallons of Gasoline Equivalent Reduced



Historical Greenhouse Gas Emissions Reduced





Upcoming Events

November 8, 2019 – MACOG/SSCC Winter Preparedness Training for Fleets

8 a.m. – 11 a.m. Eastern | Elkhart County Highway Department Truck Barn, Goshen, IN

November 19, 2019 – WEBINAR: 2019 DieselWise Indiana with Volkswagen DERA Option RFP

1 p.m. – 2 p.m. Central

November 22, 2019 – NIRPC/SSCC Winter Preparedness Training for Fleets

8 a.m. – 11 a.m. Central | Lake Station Riverview Park Cabin, Lake Station, IN

December 20, 2019 – 2019 DieselWise Indiana with Volkswagen DERA Option Applications Due

All proposals due by 5 p.m. Eastern Time!

February 10-12, 2020 – Energy Independence Summit

Westin Georgetown Hotel, Washington, DC

February 25, 2020 – SSCC Annual Meeting & Awards (Reception held evening before same location)

Blue Chip Event Center, Michigan City, IN



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Connect With Us!



Clean Cities Website: www.cleancities.energy.gov

Alternative Fuels and Advanced Vehicles Data Center: www.afdc.energy.gov

Fuel Economy: www.fueleconomy.gov