

A decorative graphic on the left side of the slide. It features a large, light green circle at the top left, a smaller solid green circle at the top center, and three teardrop-shaped leaves arranged in a fan-like pattern. The leaves contain aerial photographs of green agricultural fields with distinct rows of crops. The background is white.

High Personal Transportation Use in Sauk City, Wisconsin

A Look at Sauk City

Small commuter town

Limited shopping and entertainment

Center point/cross through between Madison, WI and WI Dells

Leans conservatively

Central Draws



The Situation/Issue at Hand



Commuters

Low Fuel
Efficiency

High Traffic
Through Town

1

3

5

2


4

6

Lack of Public
Transportation

Slow Transition
and Accessibility
Barriers to EV's,

Concentrated, consistently
high gasoline and diesel
emissions mean high PM2.5
concentration



Health Risk and Environmental Impact

PM2.5 contains *multiple major health pollutants*

Air pollution takes #4 (2021 Ranking of Global Disease and Mortality Risk Factors)

"...health effects of air pollution are serious and can affect nearly all organ systems of the human body...with no observable thresholds below which exposure can be considered safe" (Hoffmann et al.).

Environmental Deterioration. Much at the source of the pollution.





“No offense...but I’ve never been big on the arts, or the environment.”

*-Sauk Prairie Area Chamber of Commerce Executive Director,
Tywana German*

Key Players

- Politics and Community Leaders
- Organizations
- Donors
- Individuals who purchase vehicles
- Local economy and pricing (inflation)
- Governor of WI
- Car manufacturers and dealerships
- Individuals
- All people are impacted

—Environmental and health effects—



Sauk Prairie Area Chamber of Commerce



Action: Policy and Progress

- EV Adoption ...
- Potential of local donors and stronger organizations
- Efforts of State and Federal Government and Corporations to make EV's accessible and mainstream.

Works Cited

“California Air Resources Board.” *Inhalable Particulate Matter and Health (PM_{2.5} and PM₁₀)* | California Air Resources Board,

ww2.arb.ca.gov/resources/inhalable-particulate-matter-and-health#:~:text=5%3F-,PM10%20and%20PM2.,a%20significant%20proportion%20of%20PM10. Accessed 29 Sept. 2023.

“Clean Energy Plan.” *Wisconsin Office of Sustainability & Clean Energy Clean Energy Plan*, osce.wi.gov/pages/cleanenergyplan.aspx. Accessed 29 Sept. 2023.

Cost of an Electric Car - Car and Driver, www.caranddriver.com/research/a31544842/how-much-is-an-electric-car/. Accessed 29 Sept. 2023.

Driving to Clean Air about This Report - American Lung Association, www.lung.org/getmedia/9e9947ea-d4a6-476c-9c78-ccc7d49ffe2/ala-driving-to-clean-air-report.pdf. Accessed 29 Sept. 2023.

Health and Environmental Effects of Particulate Matter (PM), www.epa.gov/pm-pollution/health-and-environmental-effects-particulate-matter-pm. Accessed 29 Sept. 2023.

Hoffmann, Barbara, et al. “Who Air Quality Guidelines 2021-Aiming for Healthier Air for All: A Joint Statement by Medical, Public Health, Scientific Societies and Patient Representative Organisations.” *International Journal of Public Health*, U.S. National Library of Medicine, 23 Sept. 2021, www.ncbi.nlm.nih.gov/pmc/articles/PMC8494774/#:~:text=The%20new%20air%20quality%20guidelines,%2Fm3%20%5B1%5D.

“Sauk City, WI.” *Data USA*, datausa.io/profile/geo/sauk-city-wi. Accessed 29 Sept. 2023.

Sauk City Wi Home Prices & Home Values | Zillow, www.zillow.com/home-values/13724/sauk-city-wi/. Accessed 29 Sept. 2023.

Zelasky, Sarah E, and Jonathan J Buonocore. “The social costs of health- and climate-related on-road vehicle emissions in the Continental United States from 2008 to 2017.” *Environmental Research Letters*, vol. 16, no. 6, 2021, p. 065009, <https://doi.org/10.1088/1748-9326/ac00e3>.

Ramaker. “The State of Electric Vehicle Charging in Wisconsin.” *Ramaker and Associates*, Ramaker and Associates, 15 Sept. 2022, www.ramaker.com/insights/the-state-of-electric-vehicle-charging-in-wisconsin/.

“The Role of Government in Encouraging the Adoption of Electric Cars.” *Energy5*, energy5.com/the-role-of-government-in-encouraging-the-adoption-of-electric-cars#:~:text=By%20offering%20tax%20credits%2C%20rebates,emissions%20and%20improve%20energy%20security. Accessed 5 Oct. 2023.