

# Energy Trends in Wisconsin - Transportation

Wisconsin Clean Cities Annual Meeting  
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# Wisconsin Office of Energy Innovation

## Vision

Securing Wisconsin's energy future and improving its economy and environment.

## Mission

The Wisconsin Office of Energy Innovation promotes innovative and effective energy policies and programs that benefit Wisconsin's citizens and businesses.

## Values

OEI is committed to:

- Open Communication and Transparency;
- Collaboration and Teamwork;
- Being Forward Looking and Solutions Oriented;
- Building and Maintaining Expert-Level Knowledge; and,
- Economic Viability.

# Basic Structure of Work

- Strategic Assessment and Policy Development
- Energy Assurance and Data Transparency
- Sector Support and Market Development



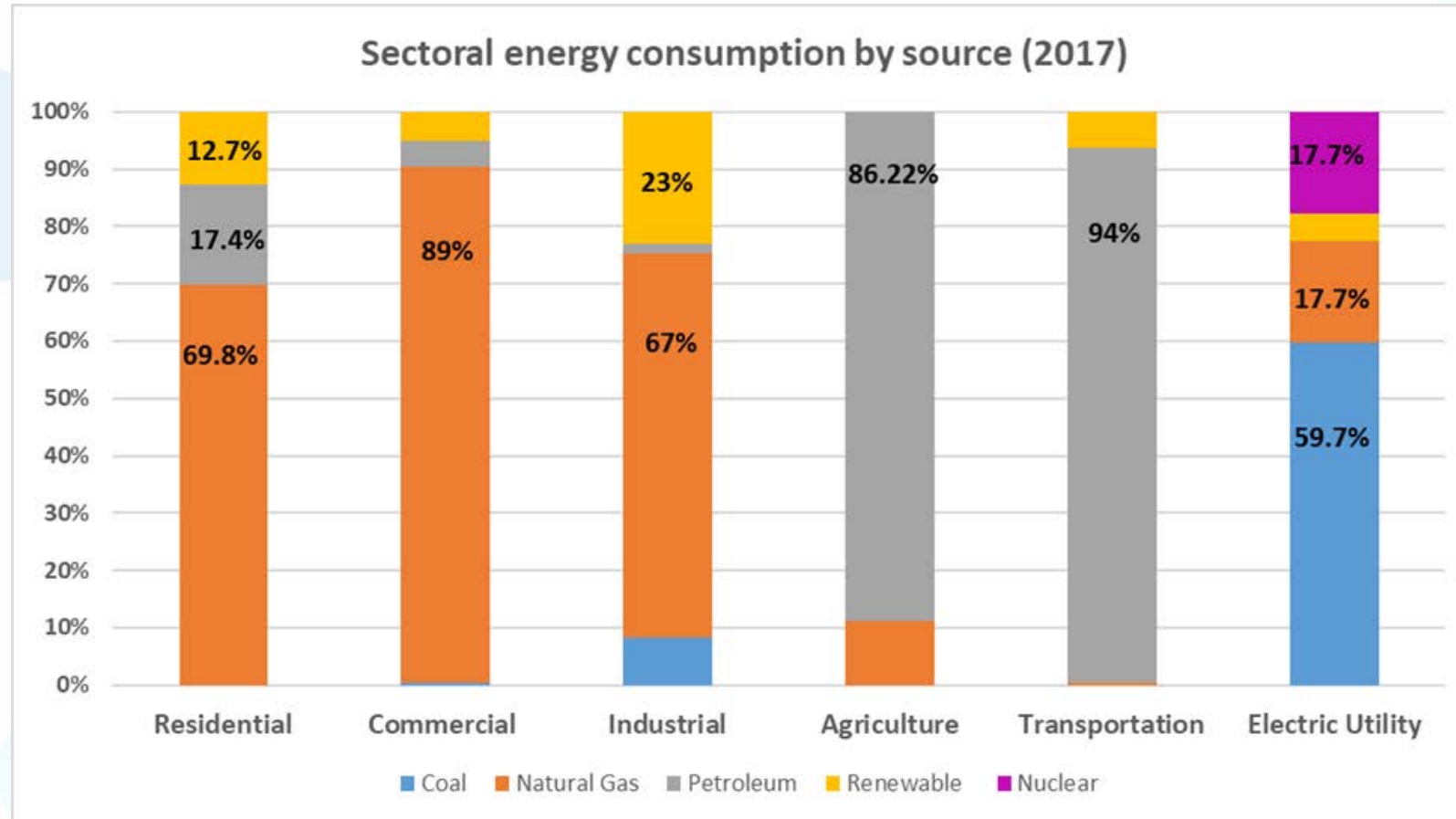


# Wisconsin Energy Statistics



Wisconsin Office of Energy Innovation

# Energy Use by Source and Sector (2017)



# Wisconsin Vehicle Fuel Consumption

## On-Road Transportation Consumption (Gallons)

	CY2010	CY2014	CY2018
<b>Ethanol</b>	255,361,559	282,549,370	319,136,291
<b>LPG</b>	2,262,215	2,302,541	3,470,579
<b>LNG</b>	0	270,653	325,385
<b>CNG</b>	302,008	8,350,362	15,623,897
<b>Diesel</b>	748,082,657	779,579,193	849,215,646
<b>Gasoline</b>	2,332,388,284	2,617,177,389	2,774,793,011

Source: WI Department of Revenue

# WI Motor Vehicle Registrations(2005 - 2019)

Year	Unleaded	Diesel	Ethanol (E85) Flex Fuel	Hybrid-Electric	Propane	Compressed Natural Gas (CNG)	Electric	Methanol	Liquefied Natural Gas (LNG)	Other*	Total
2009	4455171	173831	190198	21938	81	4664	32	0	0	693190	5539105
2010	4365757	166473	223564	25758	60	4526	33	0	0	696347	5482518
2011	4316926	172191	271732	29871	53	4348	51	1	0	731625	5526798
2012	4263037	203773	372660	40143	47	4156	234	2	0	685045	5569097
2013	5274566	350580	277096	22306	177	4915	203	0	0	254268	6184111
2014	5883765	419550	378210	31401	184	5770	269	0	2	300536	7019687
2015	5997946	431255	400018	32832	174	5835	316	0	2	311144	7179522
2016	5534264	438332	383660	32262	325	5722	375	0	2	303752	6698694
2017	5719696	468862	425770	38280	403	5806	771	2	2	316619	6976211
2018	5944016	500789	460698	44279	518	5711	1279	4	2	331628	7,288,924
2019**	6084153	502220	483173	48087	556	5682	1583	4	2	342583	7,468,043

\*Fuel type left blank, coded as exempt or as a miscellaneous fuel type.

\*\*As of June 30, 2019

# Considerations

- Transportation Energy Spending ~\$9 billion annually
- No substantial in-state fossil fuel resources, coupled with a strong reliance on fossil fuel
- Electrification
- One size does not fit all
- Where to start (sector or fuel)?
- Conservation, Efficiency, Sustainability, Equity, Social and Environmental Justice
- Lead By Example (state and local government lead the change)
- Is the Technology Available?



# Current Policy Drivers



**EXECUTIVE ORDER #38**

**Relating to Clean Energy in Wisconsin**

**WHEREAS**, climate change poses a serious threat to Wisconsin's natural resources, public health, communities, tourism, and economy;



**EXECUTIVE ORDER #52**

**Relating to the Creation of the Governor's Task Force on Climate Change**

**WHEREAS**, climate change is a grave threat to the health, safety, and economic well-being of people and communities throughout the State of Wisconsin;



# Moving Forward

- Investigation of Electric Vehicle Policy and Regulation (5-EI-156) – Workshop December 5, 2019
- Energy Assurance and Resiliency
  - Concerted effort to identify opportunities for Alternative Fuels Vehicles as a resiliency and mitigation opportunity in emergency situations
  - Statewide Assistance for Energy Resilience and Recovery (SAFER2)
- Funding
  - Energy Innovation Grant Program (PSCW)
  - State Energy Program (PSCW)
  - VW Settlement (DOA)
  - Diesel Idle Reduction Grant (DOA)
  - Diesel Emission Grant Program (DNR)
  - Congestion Mitigation Air Quality Program (WisDOT)



# Increased Sector Support

- Stakeholder Engagement & Interagency Collaboration
- Technology and Innovation:
  - Advanced Grid Efforts
  - Energy Storage
  - Increased Biofuel Blends and Renewable Fuels (Ethanol, Biodiesel, RNG)
  - Electrification of Transportation
- Workforce Development
- Affordability and Equity
- Resilience and Recovery

# Contact Us!

The Wisconsin Office of Energy Innovation is here to answer questions, meet with your customers, connected with a vast networks of contacts and resources in the state and nation.

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**Visit:** <https://psc.wi.gov/Pages/Programs/OEI.aspx>

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