

Counties included in Zone 5 – Southeast Wisconsin

- Kenosha
- Milwaukee
- Ozaukee
- Racine
- Washington
- Waukesha

Transmission system characteristics in Zone 5

ATC delivers power in Zone 5 with various transmission facilities including:

- The southern portion of 345-kV lines from Point Beach and Edgewater,
- The Saukville, Arcadian, Granville, Oak Creek, and Racine 345/138-kV substations,
- The transmission lines emanating from the Pleasant Prairie and Oak Creek power plants,
- 230-kV facilities near Milwaukee and
- A significant 138-kV network in the Milwaukee area, a portion of which is underground.

Transmission system limitations in Zone 5

Transmission system performance issues in Zone 5 are generally related to heavy market flows to and from the south, resulting in high 345-kV and 138-kV line loadings and the need to monitor potential multiple contingency conditions.

ELECTRIC SYSTEM OVERVIEW

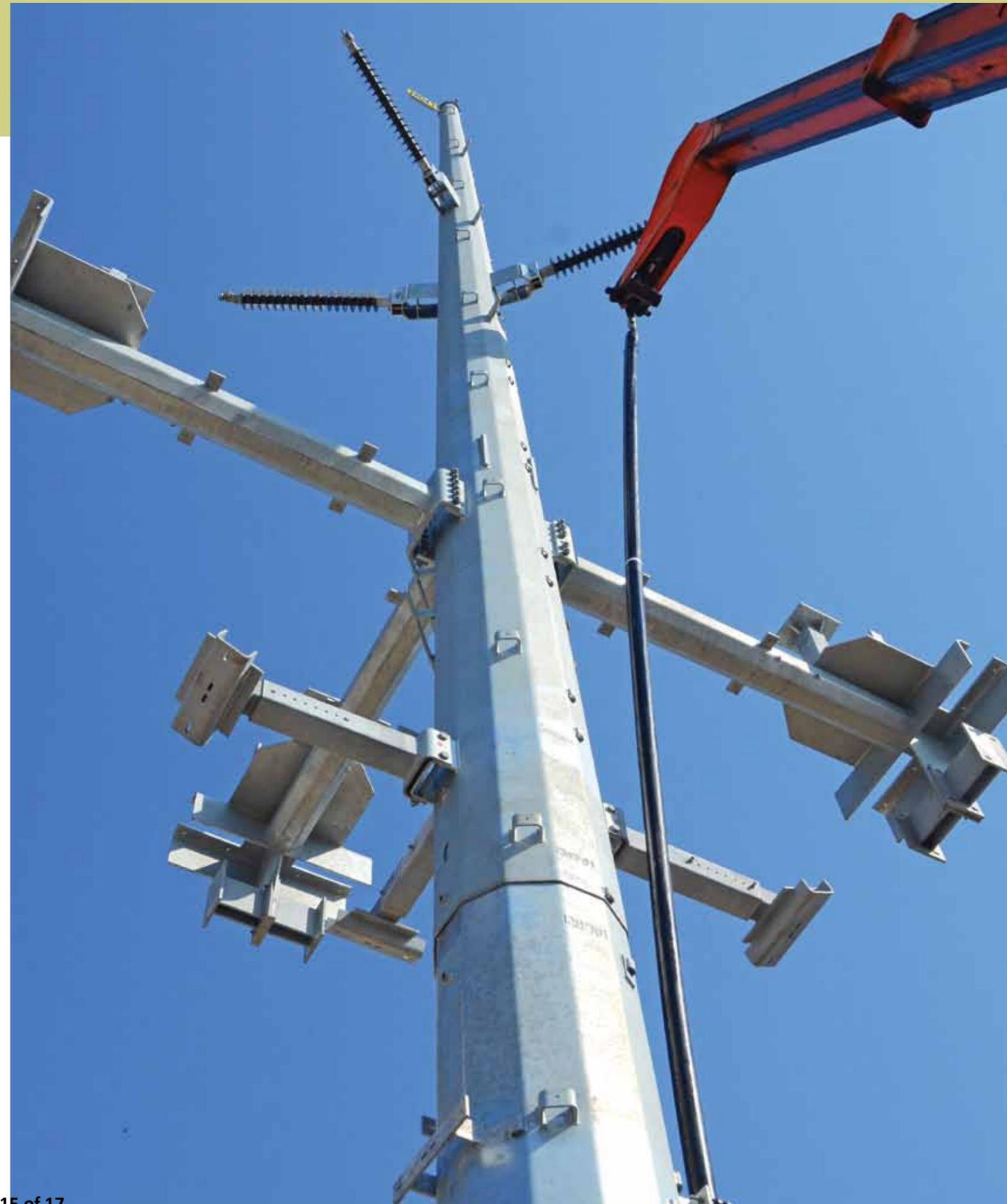
Increases expected in population, employment

Population in Zone 5 is projected to grow 0.5 percent annually between now and 2024, and employment is projected to grow 1.1 percent in the same time period. Waukesha County is projected to realize the largest increase in both population and employment.

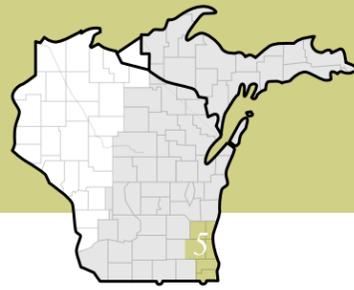
Electricity usage

Peak electric demand typically occurs during the summer months. Large industrial loads in the Milwaukee metropolitan area, including Charter Steel and Miller Brewing, are among the largest electricity users in the zone.

Electric load is forecasted to grow approximately 0.7 percent annually through 2025.



SOUTHEAST WISCONSIN Zone 5

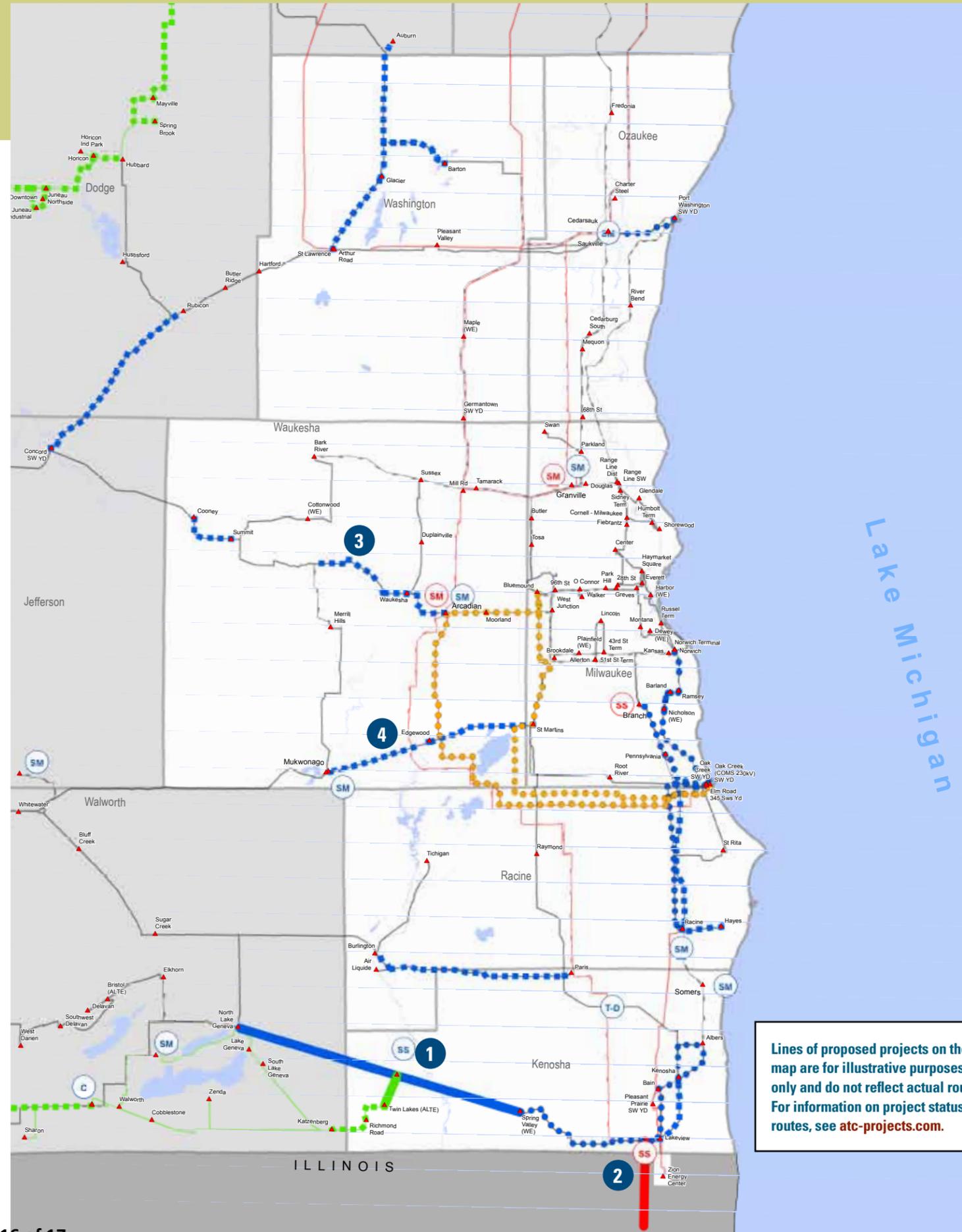


TRANSMISSION PROJECTS IN ZONE 5

The most notable planned, proposed and provisional network projects and asset renewal projects in Zone 5, along with their projected year of completion and the factors driving the need for the projects, are listed below.

PROJECT DESCRIPTION	IN-SERVICE YEAR	NEED DRIVER
Planned Projects		
1 Spring Valley-North Lake Geneva line 138-kV construction	2019	Overloads and low voltages, provide network service
Proposed Projects		
2 Southeast Wisconsin-Northeastern Illinois Interface Project	2020	Overloads
Provisional Projects		
None		
Asset Renewal Projects		
3 Waukesha-Merrill Hills 138-kV line partial rebuild (portion of Quad County Electric Reliability Project)	2015	Condition and performance
4 Mukwonago-Edgewood-St. Martins 138-kV line rebuild	2018	Condition and performance

Additional projects may be found in the full 10-Year Assessment at atc10yearplan.com.



Lines of proposed projects on the map are for illustrative purposes only and do not reflect actual routes. For information on project status and routes, see atc-projects.com.

System Solutions Key

<p>SUBSTATION KEY</p> <ul style="list-style-type: none"> SS New substation Supports transmission system expansion SM Substation modifications Upgrades equipment ratings to avert facility overloads T Transformer Supports local growth and improves voltage levels C Capacitor bank or reactor Relieves low voltages or high voltages T-D T-D interconnection Supports local growth 	<p>TRANSMISSION LINE KEY</p> <ul style="list-style-type: none"> — 345-kV transmission line — 115-, 138- or 161-kV transmission line — 69-kV transmission line ▬▬▬ Rebuilt 115- or 138-kV transmission line ▬▬▬ Rebuilt 69-kV transmission line ●●● 115- or 138-kV transmission line rating upgrade ●●● 69-kV transmission line rating upgrade ●●● 230-kV transmission line rating upgrade 	<p>EXISTING TRANSMISSION LINES KEY</p> <ul style="list-style-type: none"> — 69 kV — 161 kV — 115 kV — 230 kV — 138 kV — 345 kV
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Helping to **keep the lights on**, businesses running and communities strong®

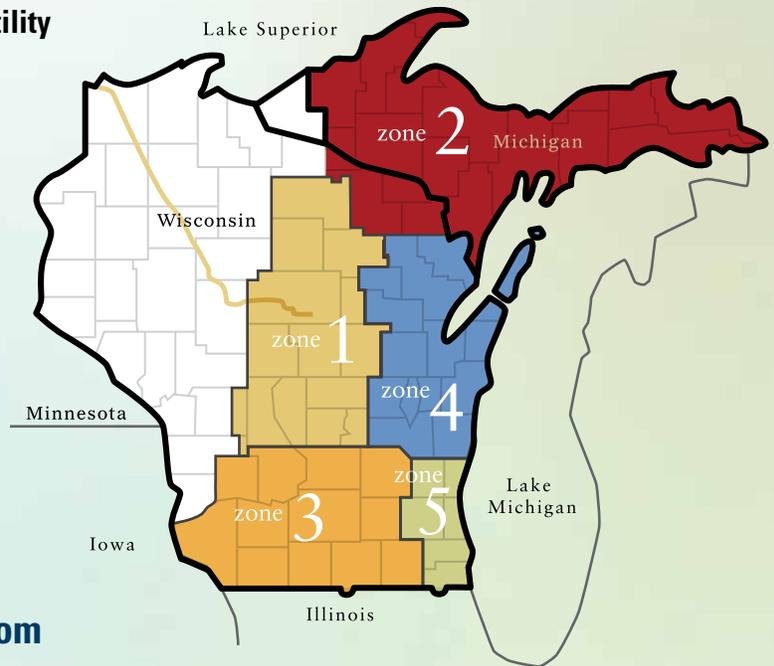
ATC AT A GLANCE

- Formed in 2001 as the first multi-state, **transmission-only utility**
- Owner and operator of **more than 9,530 miles of transmission lines and 530 substations**
- Meeting electric needs of more than **five million people** in 72 counties in four states: Wisconsin, Michigan, Minnesota and Illinois
- **\$3.8 billion** in total assets

CONTACT

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