

An aerial photograph of a large-scale solar farm. The solar panels are arranged in neat, parallel rows across a vast field. In the background, there are some trees, a utility pole, and a small building. The foreground shows a dirt path and some greenery.

MSD Wayne Township Energy Management Discussion



MSD Wayne Township Transportation Center Solutions

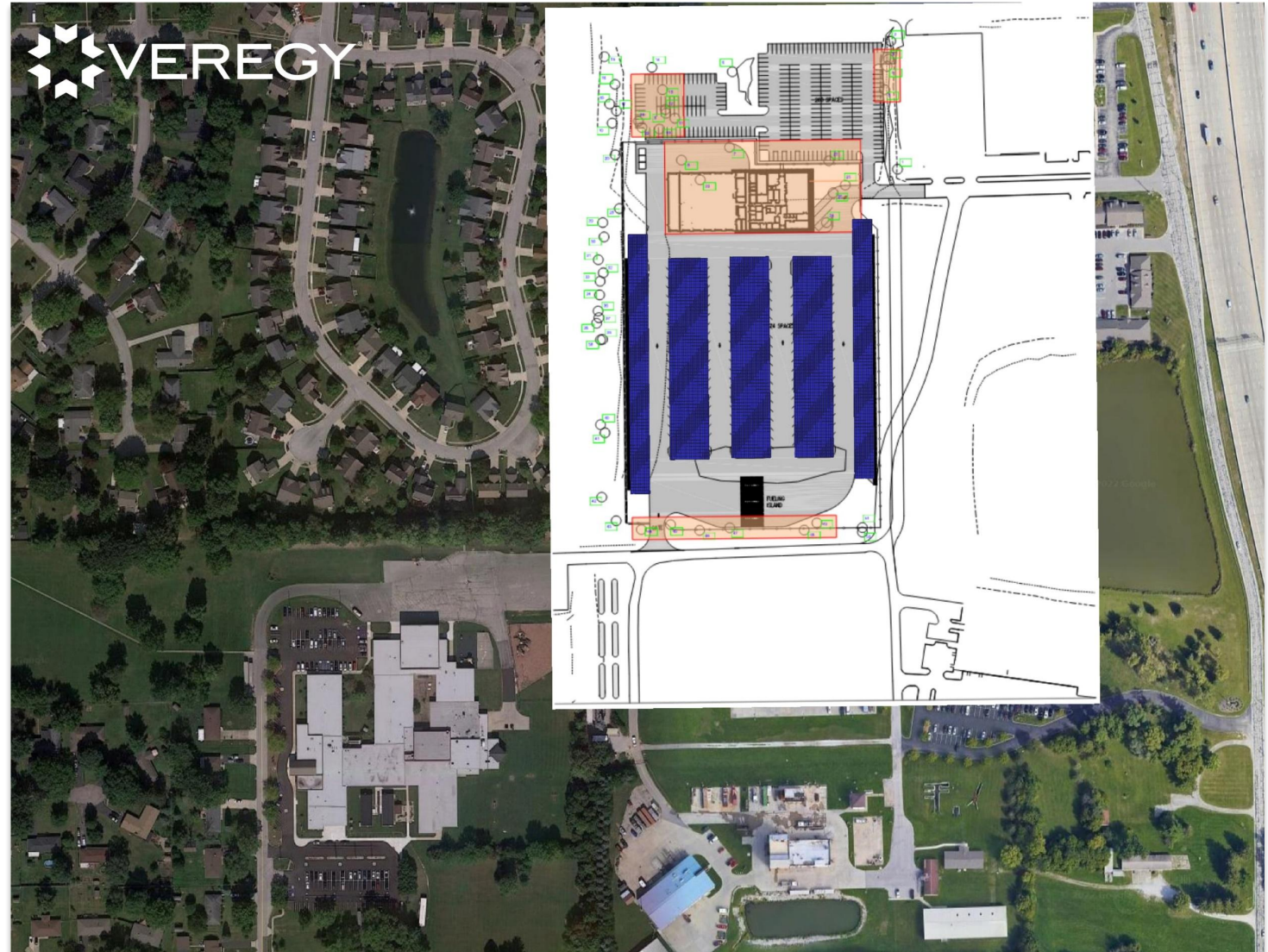
AES Utility Escalations □ above the normal 5.7% average

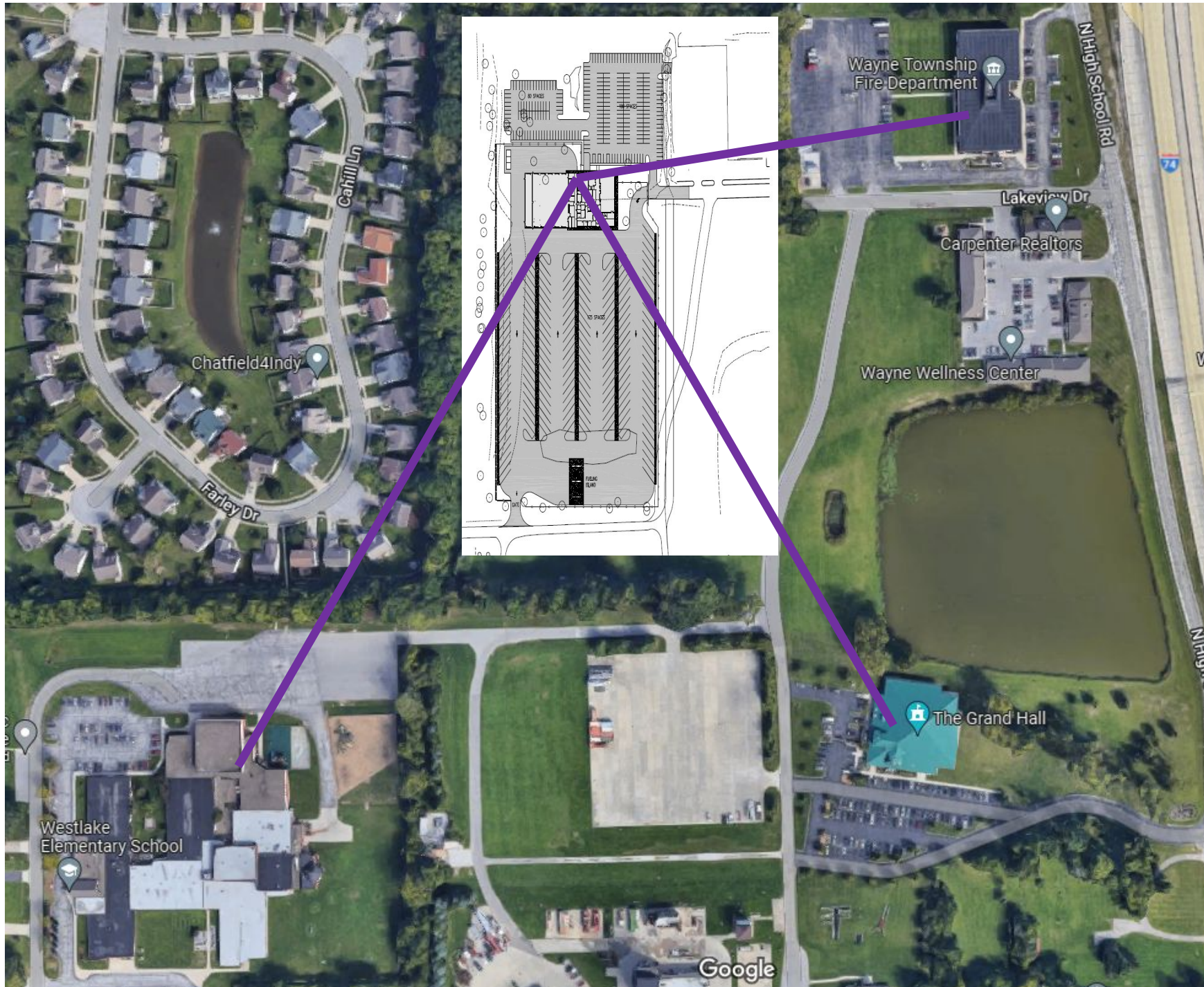
- **AES Indiana customers could see nearly 19% rate increase this fall**
- INDIANAPOLIS – At a time when budgets are already tight, things could get worse for AES Indiana customers to the tune of a nearly **19%** rate increase this fall.
- The utility company [has asked the Indiana Utility Regulatory Commission](#) (IURC) to approve its request for a rate hike. The request came to light Friday when AES filed its Fuel Adjustment Clause tracker. The clause allows utilities to adjust customer prices based on fluctuations in fuel costs.



Complete Campus-Wide Energy Master Plan:

Westlake ES/Convention Center/FS HQ/ Transportation Center/future Elec Buses – First phase is 3 middle canopies.





Existing Electric Footprint



Westlake Elementary School 519,600 kWh



Westlake Elementary – Chillers 211,680 kWh



Bus Garage 569,520 kWh



Electric Bus Chargers** 100,000 Kwh



Fire Main Office 425,000 kWh



Grand Hall 201,800 kWh



Total kWh Usage 2,027,600 kWh

- MSD Wayne's Transportation Solar Array would provide a net zero carbon offset program for all 4 existing campus buildings. We will then add additional Solar power for the new Transportation Center and first stage Bus chargers.
- School buses would be fueled by the sun and reducing emissions.
- Will generate 7.5 million dollars of Energy kwh reduction over 20 years.



Propane Fuel Tank

1,990 Gallon Tanks (6-8 needed)

- Provided by Co-Alliance at no cost
- Would require weekly deliveries to support fleet
- Would require additional land due to setback requirements
- Could potentially utilize the two current tanks

18,000 Gallon Tank (1 needed)

- \$200,000 Upfront cost for MSD Wayne Township
- Would only need two deliveries per month
- Would require less land with setback requirements
- Saves the district \$0.25 per gallon on the cost of propane

Propane Fuel Tank

School Year	Total Propane Buses	Gallons per Bus
16/17	24	3,586
17/18	33	3,887
18/19	33	4,021
19/20	41	3,747
20/21	55	2,644
21/22	68	3,505
22/23	82	3,666
23/24	96	
24/25	110	

110 Buses x 3,600 Gallons
= 396,000 Gal/Year

396,000 x \$0.25= \$99,000/Year

Propane Tank ROI \approx 2 Years

MSD Wayne Township EV Solutions



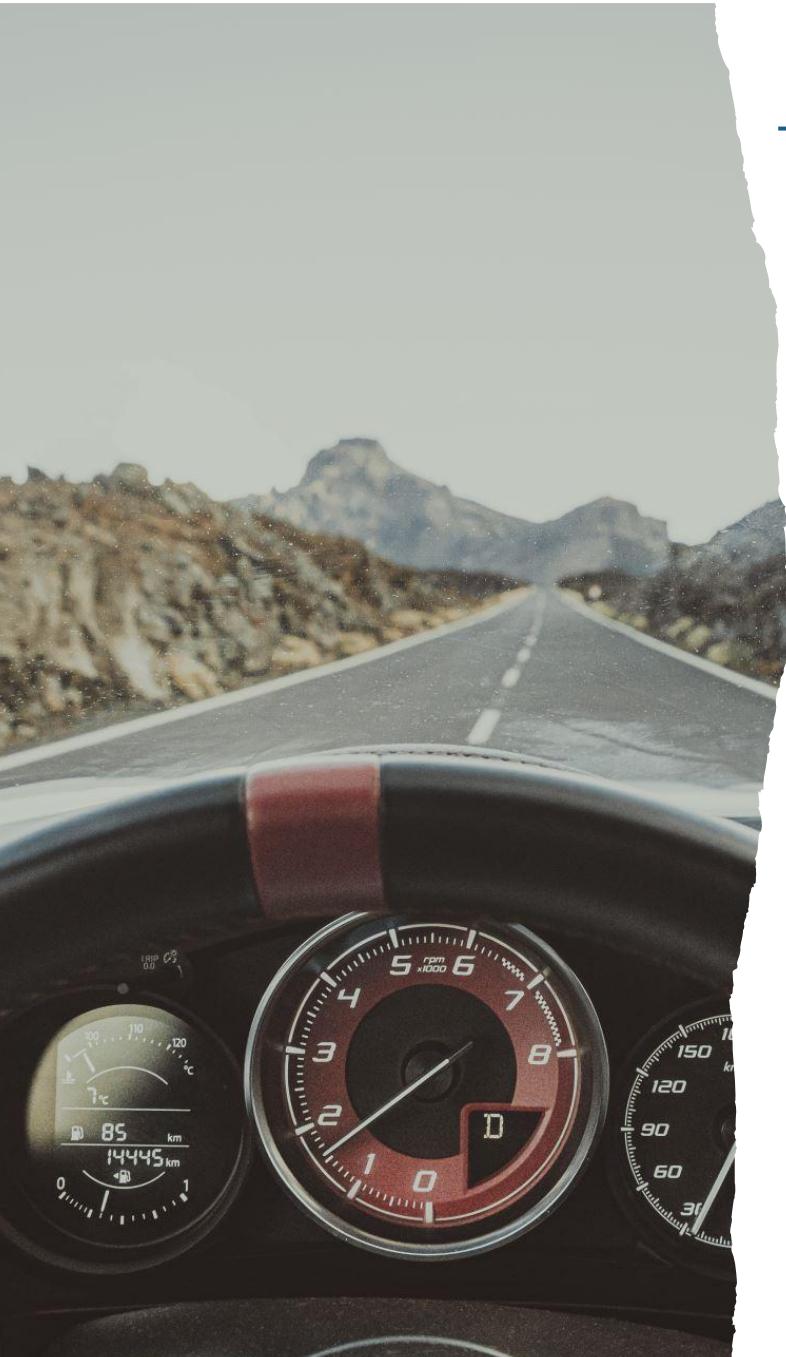


EV Capacity & Locations

Good News:

All locations currently have capacity for EV chargers.

Location	Service Voltage	Service Size (Amps)	Service Size (kVA)	Max Demand (kW)	Capacity (kVA)
Education Center (Bldg)	480	1200	996	44	927
Bridgeport ES	480	2500	2,076	577	1,250
Chapel Glen ES	480	1200	797	427	262
Chapel Hill 7th & 8th Grade Center	480	3000	1,993	853	921
Chapelwood ES	208	2500	900	466	278
Conference Center	208	1200	345	106	184
Garden City ES	480	1600	1,063	487	315
Maplewood ES	480	1600	1,063	508	279
McClelland ES (Bldg)	208	2000	576	174	347
North Wayne ES	480	2500	2,076	357	1,611
Operations Center	480	2500	1,661	73	1,537
Rhoades ES (Bldg)	208	2000	576	174	342
Robey ES (Bldg)	208	3000	864	181	623
Sanders School	208	1600	576	114	411
Lynhurst 7th & 8th Grade Center	480	3000	1,993	1,033	573
Stout Field ES	480	800	664	330	226
University HS	480	3000	1,993	840	842
Wayne Enrichment Center	208	800	230	52	163
Westlake ES (Bldg)	208	2000	720	165	500
Ben Davis	480	4000	3,322	2,159	527
Ben Davis 9th Grade Center	480	2000	1,661	326	1,239



Cost for Driving 100 Miles

Car- 25 mpg equivalent (\$ 5.00 gal)
\$ 20

Tesla Super Charging Station
\$ 9

Wayne Township Schools Charging cost
\$ 2

(Wayne Township can generate
Revenue Profits off Charging to Vehicles)

EV Solutions

Veregy has included the proper electrical infrastructure and the budget for 2 dual-port charging stations (4 car charging spaces) at each location, with the potential to easily add 3 (6 car charging spaces) more dual-port chargers in the future.

Estimated Cost (per site):

\$72,000 208V Buildings

\$78,000 480V Buildings

Each cost includes 5 years of maintenance and cloud-based credit card services.

Estimated Cost Budget (all sites): \$1,590,000

