

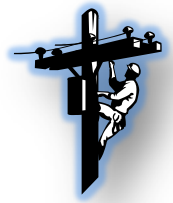


## PUBLIC WORKS DEPARTMENT PRESENTATION: HUDSON PUBLIC POWER

### Department Background

#### I. Hudson Public Power

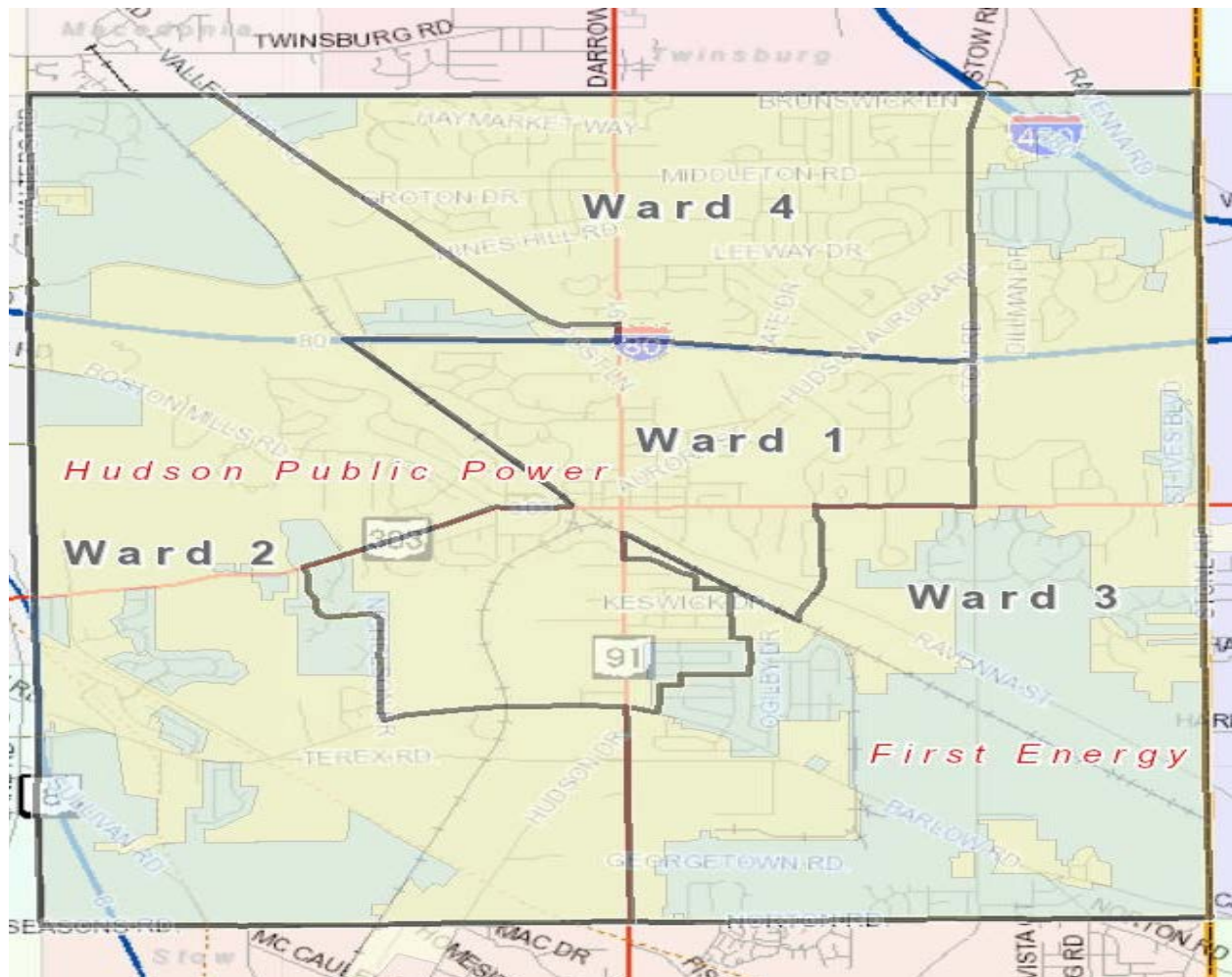
- Established in 1911 the mission and purpose of the Hudson Public Power Division is to provide residential, commercial and industrial customers with high quality, reliable electric power and associated services in an effective and efficient manner and within a fiscally responsible framework.
- Power for the City is purchased through American Municipal Power, Inc. (AMP). Long term power contracts are secured to ensure that the availability, reliability and cost effectiveness of power and services remains competitive.
- Power is delivered to the City's distribution system through two (2) points. One is a 69Kv line and one is a 138Kv line with connection points at both the south main substation and the eastside substation respectively.
- Hudson Public Power staffing is comprised of 23 fulltime positions. One (1) Superintendent (shared), One (1) Assistant Superintendent, Two (2) System Supervisors (Distribution and substation operations), And Fifteen (15) Linemen/Electric Techs./Ground Techs. , one (1) Electric Operations specialist (Inventories), two (2) Substation Electricians, and one(1) Electrical Design Tech.
- Through the AMP organization Hudson Public Power is able to offer customer services such as the Efficiency Smart Program which offers programs that will save consumers on electric consumption thereby reducing electric costs. In addition, HPP also Works directly with its highest consumption commercial and industrial customers to educate them on their consumption and analyzing ways in which power consumption can be managed through projects and best practices that can result in savings to the customer. Also offered are community education programs to educate and promote electric safety.
- The current system is comprised of five (5) Distribution Substations monitored by an integrated SCADA (supervisory control and data acquisition) system, 230 miles of conductor cable, 1200 transformers, and over 2000 overhead poles. Infrastructure also includes twenty-six (26) traffic signaled intersections. The system serves 6500 customers (5670 Residential, 830 Commercial/Industrial).
- The current systems annual peak load is approximately 46000 kW. Total annual energy required is 201,480,000 kWh (Average home kWh per month-1100-1500).
- The average customer electric outage duration is 73.00 minutes compared to the average of 91.35 minutes for our zone (zone 2). See attached map.

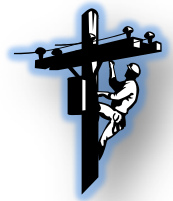


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- Current HPP Objectives:
  - Development of the systems ten (10) year maintenance and upgrades plan including utilizing smart grid technologies
  - Final selection and Installation of an Outage Management system
  - Completion of the south Rt. 91 corridor street lighting project
  - Completion of current cost of service/ rate study and recommendations
  - Analyze potential electrical needs based on City build out scenarios
  - Develop a direct-connect policy/customer program for renewable systems

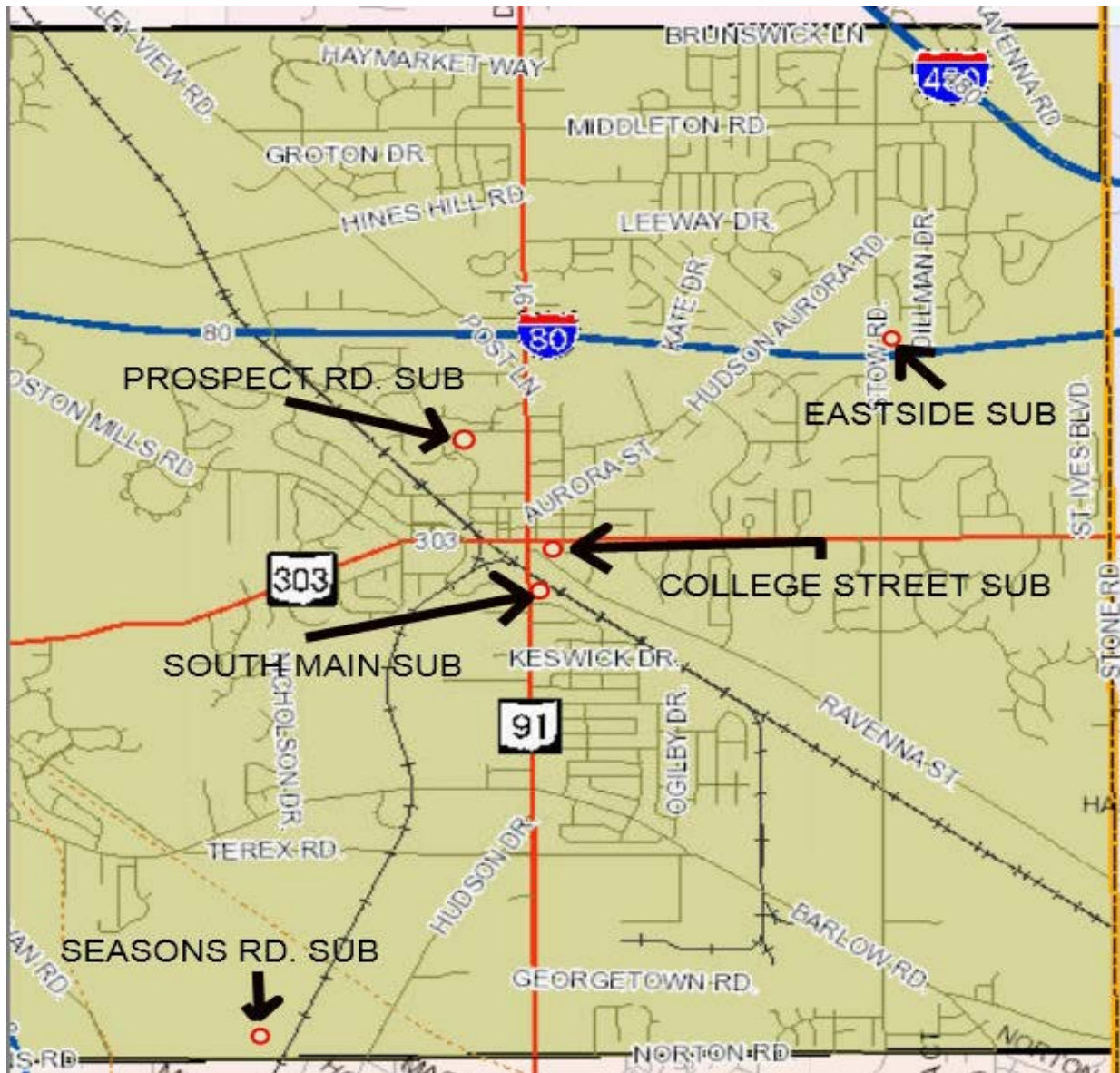
Electric Providers Map 1

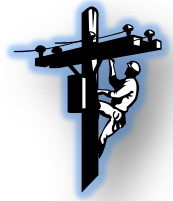




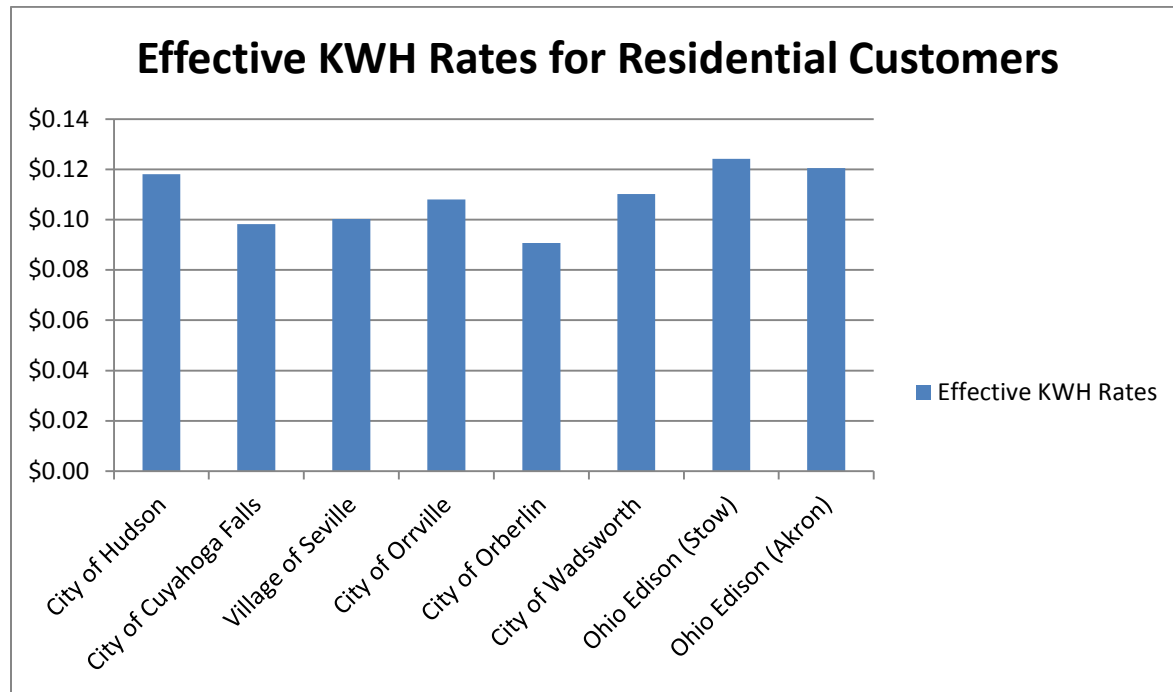
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Substation Locations Map 2





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City / Town	Population
Hudson	22,323
Cuyahoga falls	49,245
Seville	2,298
Orville	8,395
Oberlin	8,300
Wadsworth	21,729
Stow (OE)	34,674
Akron (OE)	198,549

City / Town	# Customers
Hudson	6,500
Cuyahoga falls	25,000
Seville	1,776
Orville	7,103
Oberlin	3,126
Wadsworth	12,500
Stow (OE)	
Akron (OE)	

City/Town	Eff. kWh \$ Rate
City of Hudson	0.11805
City of Cuyahoga Falls	0.0982
Village of Seville	0.10025
City of Orrville	0.10801
City of Oberlin	0.09075
City of Wadsworth	0.1102
Ohio Edison (Stow)	0.12416
Ohio Edison (Akron)	0.12046