

Municipal Power News



Greenfield Power & Light

Volume 29, Issue 1 | Spring 2024

Greenfield's Solar Park Powers On

With over six years of continuous operation, the Greenfield Solar Park continues playing its part in helping your community's utility supply low-cost, reliable, and environmentally-responsible power. The Indiana Municipal Power Agency (IMPA), Greenfield's not-for-profit, wholesale power provider, constructed the facility in 2017 at no direct cost to the community, and the Agency has since included the facility's capacity in its power supply portfolio. At a rating of 2.8 megawatts (MW), the park has the capacity to produce an annual amount of energy that is enough to power approximately 420 homes. In the time since the facility's construction, the solar power industry has grown nationwide, showing that Greenfield has been on the cutting edge of new technologies in the energy sector.

"The entire utility industry has been moving toward renewables as a viable piece of power generation resources, and IMPA has been an innovative leader of solar construction in the Midwest since 2014," said Jack Alvey, IMPA President and CEO. "Communities like Greenfield have helped us to solidify our place in the forefront of the energy sector by collaborating with us in establishing renewables. This directly benefits all IMPA members, as it ensures our collective stability as a joint-action agency."

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Look through reader responses from the last edition of *Municipal Power News*.

IMPA Celebrates 10 Years of its Solar Program

With the goal to expand the diversity of its power supply portfolio with economically feasible renewable generation sites, the Indiana Municipal Power Agency (IMPA) launched its solar program to construct solar parks within its member communities in 2014. At the time, solar power was just emerging as a cost-effective fuel resource for utilities, but IMPA embraced the challenge of incorporating this resource into its power supply portfolio to further diversify its resources and prepare for the future. Now, 10 years and 50 solar parks later, IMPA is proud of the numerous accomplishments made through its solar program and the nearly 200 megawatts of power that it contributes to all 61 member communities served by the Agency.



IMPA began its program cautiously, only constructing three demonstration solar parks in Frankton, Rensselaer, and Richmond, Indiana in its first year. Each site was housed on about eight acres of land and with 4,000 solar panels, and by the end of the year, the three sites generated 1.5 million kilowatt hours.

Through this process, IMPA expanded its knowledge of solar power and the steps needed to successfully develop parks of this scale in the most cost-effective way possible. Besides relying on in-house expertise, IMPA worked with local contractors in each of the three member communities to keep costs down and support local businesses. When construction of the three solar parks came in under budget while reliably providing environmentally-responsible electricity, IMPA and its Board of Commissioners started to envision the vast possibilities of building solar in several member communities. A spark was lit, and by 2015, six more solar parks were constructed in member communities, adding over 9 megawatts (MW) of solar capacity to the Agency's power supply portfolio.

In the ensuing years, IMPA increased its renewable footprint by building solar in collaboration with its member communities. As time progressed, so did the Agency's proficiency in constructing solar parks. By 2017, IMPA was constructing each of its solar parks with a single-axis



tracking system, allowing solar panels at each site to effectively track the movement of the sun throughout the day and generate more electricity as a result. The program continued to expand with new solar parks being constructed in member communities throughout the state, as well as additional parks being added to some communities whose infrastructure were able to handle more than one solar park . With the help of this program, IMPA achieved at least 30% low or no carbon resources by 2020 while still offering some of the lowest wholesale electric rates in the state of Indiana.

The success of IMPA’s solar program continues to thrive in recent years. In 2023, IMPA had its most prolific year yet for its solar park program as the Agency brought seven solar parks online in member communities. The agency’s largest park – at 9.9 MW – was completed, and IMPA celebrated a milestone as the Agency’s 50th solar park came online late in the year. From a small, idealistic program that started with three, 1-MW parks in 2014,

the Agency’s solar park program has grown exponentially in under 10 years. The Agency now has over 196 MW of solar power in member communities. Plans are already underway for four additional parks, and the Agency expects to surpass 209 MW of solar capacity by the end of 2025. The solar park program plays a key role in IMPA’s diverse power supply portfolio, and with its proven success rate, the Agency continues to provide a diverse fuel mix that benefits both consumers and the environment. •



IMPA’s 50th Solar Park Ribbon Cutting

Reader Feedback

The **Indiana Municipal Power Agency** (IMPA) is a not-for-profit organization that provides a low-cost, reliable, and environmentally-responsible power supply to its members. IMPA provides this wholesale power to 61 communities in Indiana and Ohio, who collectively make up the Agency's membership.

What does having reliable electricity mean to you and your family?



Send your answer to newsletter@impa.com, along with your name, e-mail address, and address for a chance to win an energy efficiency prize pack!

Topic Survey

Is there more about your community that you would like to know? Do you have questions about how public power or your municipally-owned utility works? Would you like to learn more tips and tricks as to how you can improve your home's energy efficiency?

Reach out to newsletter@impa.com to suggest topics for future *Municipal Power News* newsletters and let us know what articles you enjoy most, and what you'd like to see next!



Solar Park

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Although IMPA has received 100% of the power output from the park since it came online, the Agency originally partnered with an investor to lower the construction costs of the solar park through a power purchase agreement arrangement. In 2023, IMPA procured 100% ownership of the solar park from the investor, resulting in lower costs from the solar park for the rest of its life.

Since its construction, all the energy generated by the Greenfield solar facility has been and continues to be consumed within the community, benefiting the local electric system and supporting renewable energy in Indiana. Another advantage of having a solar park in the community is through annual property tax revenue that comes with the construction of the site. The Greenfield Solar Park is expected to contribute hundreds of thousands of dollars in property taxes to the community in the



**Ribbon Cutting Ceremony
of Greenfield Solar Park**

decades to come.

The generation facility also bolsters economic development, as renewable power is highly marketable to prospective businesses and industries. As a result, the solar park plays an important role in attracting potential opportunities and jobs to the city.

Not only is the solar park great for Greenfield's local utility and economy, but it promotes the health of other municipalities

throughout the Midwest by contributing to the diversity of IMPA's power supply portfolio. Diversity is one of the prime factors as to why so many communities across the country are constructing solar parks. IMPA supplies electricity to its members through a diverse array of generation resources, including coal, wind, solar, natural gas, and nuclear energy. Since the Agency's power portfolio is not only varied in fuel-source, but also varied in geographic location, IMPA avoids the problem of "putting all its eggs in one basket." If complications arise with one resource or generating location, IMPA is prepared to continue supplying power with supplemental power from other resources. In this way, IMPA-constructed solar parks play a role in ensuring stable electric rates, and when backed up by dispatchable resources, they provide a reliable power resource for years to come. Together, IMPA and Greenfield are proud to continue ushering in this new era of energy in the state of Indiana through operations at the solar park.

When the Greenfield Solar Park was commissioned in 2017, it was one of 16 solar parks that IMPA had constructed in member communities. Now, IMPA has constructed 50 solar parks around Indiana, and the Agency plans to complete construction on two more parks by the end of 2025. The Agency plans to have constructed over 200 MW of solar generation as a part of its power portfolio by that time as well. •

What's the Word?

Investigating Power Terminology

Watt

A watt is a unit of measurement used to show the rate of energy transfer over one second of time. Consequently, a kilowatt is equal to 1,000 watts, a megawatt is 1 million watts, and a gigawatt equals 1 billion watts.

You may have heard of a kilowatt hour (kWh), which is a common billing unit used by most utilities in the electric industry. Essentially, a kWh simply shows the energy use per hour of an appliance, device, or entire home measured in kilowatts. For example, a space heater rated at 1.5 kWh consumes 1,500 watts of power in one hour of continuous use!

Watts are named after James Watt, an inventor and engineer born in 1736 who also created the concept of horsepower.

Cooking Corner

Meatloaf

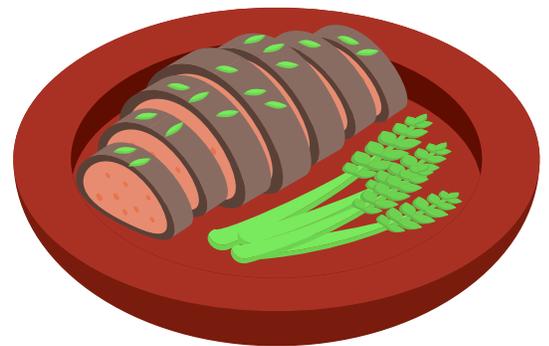
Recipe submitted by Marcie of Richmond, Indiana

- 2 lbs hamburger
- 2 eggs
- 10 to 12 crackers (crumbled)
- 1 onion diced
- 1 tsp baking soda
- 1/2 cup milk
- 2 pkgs instant oatmeal
- 2 to 3 squirts of ketchup

Mix all ingredients well. Form into a loaf and put into a greased loaf pan. Cover with ketchup. Refrigerate for 20 to 30 minutes covered to help the loaf firm up. Preheat oven to 350 degrees. Remove loaf from refrigerator and bake in preheated oven for 1 to 1 1/2 hours.

Once meatloaf is baked, remove from oven. Let rest on top of the stove for 30 minutes before cutting into so that it won't fall apart.

This recipe serves about 4 to 6 people. Invite your friends and family over to enjoy!



For a chance to be featured in the newsletter and win a prize, send your recipe to:

MPN Recipes
11610 N. College Ave.
Carmel, IN 46032
or
newsletter@impa.com

The MUNICIPAL POWER NEWS is a periodic publication of the Indiana Municipal Power Agency and the 61 communities that it serves with wholesale power.

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What are the Benefits of Public Power?

In the last issue of the *Municipal Power News*, we asked you what some of the benefits of public power are. As a reader of this newsletter, you live in a public power community, which means the electric utility that serves your power needs is a not-for-profit utility, owned and operated by your municipality.

The benefits of public power are numerous. Here is what some of our readers had to say about the advantages of living in a public power community.

“By being a part of the community, public power utilities can boost investment in the community, support local education, and be involved with charitable programs. They also care about the overall well-being of the communities they serve.”

– Fred

“Since public utilities are nonprofit organizations, their main focus is on providing affordable services rather than maximizing profit. This often leads to lower rates for customers, as any surplus revenue is reinvested into the improvement and expansion of services. Public power

also eliminates the need for shareholders and dividends, further reducing costs. Consequently, individuals and businesses can save money on essential utilities, allowing them to allocate their resources more efficiently.”

– Chris

“There are many benefits to public power, such as being able to be provided with economic advantages. IMPA makes sure all electric needs of the community are met, as well. It boosts community investments, supports local education, and gets involved with beautification.”

– Bridgette

These are all great answers that highlight how public power improves your community to help it thrive. Additionally, public power is affordable. According to a 2021 American Public Power Association (APPA) comparison, public power customers of Indiana and Ohio typically saved an average of more than 40% when compared to other types of electric utilities. APPA also reports that nearly 80% of projects currently under construction by public power utilities are solar and wind generating sources. This shows that public power utilities also recognize the importance of environmental stewardship and continue to invest in sustainable power sources.

Public power communities, including yours, consistently work to provide low-cost, reliable, and environmentally-responsible power to their consumers.

To learn more about public power, visit www.impa.com/publicpower!

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The Municipal Power News is published
by the Indiana Municipal Power
Agency and Greenfield Power & Light.

IMPA Commissioner: Jane Webb

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