MUNICIPAL POWER NEWS

City of Huntingburg - Electric Utility

IMPA
INDIANA MUNICIPAL POWER AGENCY

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Representatives from the Indiana Municipal Power Agency and the Huntingburg Electric Utility, along with local students and elected officials welcomed a two megawatt solar generating facility into the community on October 3, 2016.

IMPA Huntingburg Solar Park Now Generating Power

Representatives from the Indiana Municipal Power Agency (IMPA) and the Huntingburg Electric Utility, along with Huntingburg town officials and students from Southridge Middle School welcomed a new solar electric generating facility to the community on October 3, 2016. Elected officials, including State Senator Luke Messer and State Representative Lloyd Arnold were also in attendance. The IMPA Huntingburg Solar Park is a two megawatt solar facility, which consists of 7,884 solar panels located on 11.02 acres of land on West Phoenix Drive.

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Anatomy of an Electric Utility Pole

Utility poles are a common sight throughout the United States, as they are located adjacent to many roadways that are visible while driving. While you see these poles every day, have you ever thought about the function of the poles and the lines and attachments that hang onto them?

Utility poles play an important role in electrical distribution, which is a fancy term for how electricity travels to your home or business. All of the lines and attachments that sit on the utility pole play an essential role in this process. Read on to learn more about the different parts that make up your everyday electric power pole.

1. Insulator: The insulator prevents wires from coming into contact with each other on the utility pole, which could cause fires, outages and other dangerous conditions.

2. Guy wire: The guy wire is a tensioned wire that helps to stabilize the utility pole to the ground.

3. Transformer: An electrical device, typically in a metallic enclosure, that converts high voltage electricity to a lower voltage for use in homes and businesses.

4. Fuse cutout: A combination of a fuse and a switch, the fuse cutout is used to protect power lines and other equipment from surges or overloads by disconnecting the power line from a transformer.

5. Crossarm: This horizontal piece of the utility pole is typically made of high-quality wood and holds power lines and other equipment, such as transformers, onto the pole.

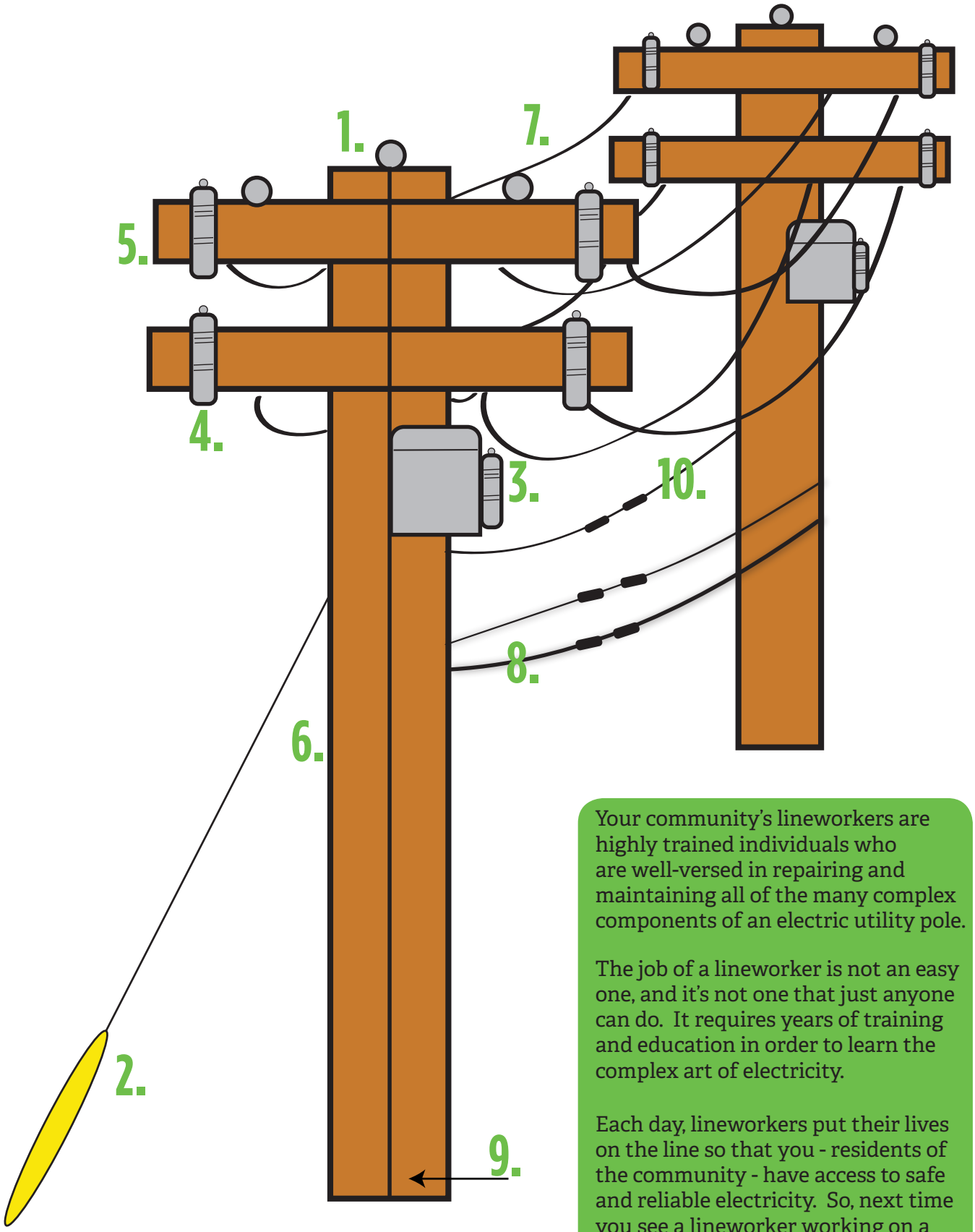
6. Utility pole: The utility pole is typically made of wood or steel, and can range in height from 30 feet to more than 100 feet. The pole serves as the backbone for the electric line and holds all of the components and equipment.

7. Primary wire: These wires are on the very top of the utility pole, and usually carry high voltage electricity from a substation.

8. Lowest wires: Utility poles don't just hold electric wires; other wires, such as telephone or cable wires, are also attached to these poles. Typically, these wires are found closest to the ground and are the lowest wire on the utility pole.

9. Ground wire: This wire runs the entire length of the utility pole, directing any electricity on the pole safely into the ground.

10. Secondary wire: Once the high voltage electricity has been converted to a lower voltage, the secondary wire carries that electricity to homes and businesses.



Your community's lineworkers are highly trained individuals who are well-versed in repairing and maintaining all of the many complex components of an electric utility pole.

The job of a lineworker is not an easy one, and it's not one that just anyone can do. It requires years of training and education in order to learn the complex art of electricity.

Each day, lineworkers put their lives on the line so that you - residents of the community - have access to safe and reliable electricity. So, next time you see a lineworker working on a utility pole, stop and thank them for their service to the community.

Local Apprentice Lineworker Graduates from Dubois County Leadership Academy

Colin Leinenbach is an apprentice lineman for the Huntingburg Electric Utility, but he is also one of the most recent graduates of the 2016 Dubois County Leadership Academy. The Academy, which is in its sixth year of operations, aims to bring together young professionals within Dubois County and provide them with skills and real-world projects that will better equip them to lead in their workplaces, now and in the future. Leinenbach was nominated by Huntingburg Mayor Denny Spinner to participate in this program.

The Leadership Academy consists of six sessions, which are all focused on different components of leadership, including communication, business, entrepreneurship, government service and more. Outside of these sessions, academy participants are also assigned into groups to complete a capstone project, which provides a real-world application to the skills learned within the sessions.

Leinenbach and his other five group participants within the capstone project developed their idea to build bike racks for the communities of Ferdinand, Huntingburg and Jasper. In order to implement this idea, he and his group members had to design a model of the bike rack, meet with various park boards in order to receive permission for bike rack locations and also raise money to

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Colin Leinenbach recently graduated from the 2016 Dubois County Leadership Academy. Leinenbach is an apprentice lineman for the Huntingburg Electric Utility.

help fund the project.

"After attending the leadership sessions and working with my group to develop our bike racks, I definitely feel like I've gained a lot of leadership skills and look at things a lot differently," stated Leinenbach. "I never realized how many decisions a leader has to make each day. I have a much better understanding of what it truly takes to be an effective leader."

Leinenbach also said that many of the skills that he learned in the Academy will be transferrable to his daily duties as an apprentice lineworker. Communication and decision making are extremely important skills to have as a lineworker, as these individuals are working with potentially life-threatening high voltage electricity every day. "It's our responsibility as lineworkers to keep each other safe. We keep each other alive every day, and that's because of solid decision making and communication," continued Leinenbach.

Leinenbach has worked for the Huntingburg Electric Utility for roughly six years, first serving as a meter technician and then transitioning into the role of apprentice lineworker four years ago. Leinenbach is in his final year as an apprentice, and in March he will graduate from his program and become a certified journeyman lineman. "I really do love the learning aspect of being a lineworker. In this line of work, you never stop learning. We have great leadership and a great group as a whole."

Tidbits & Trivia

Question: Which type of wire on a utility pole carries the high voltage electricity from a substation?

a) Secondary wire
b) Primary wire
c) Ground wire
d) None of the above

Send your answer to the question to IMPA, and we will randomly select winners from all of the correct entries to receive an energy efficiency prize pack. Please send your name, e-mail address and address with your answer to:

newsletter@impa.com

OR

MPN Energy Efficiency Quiz
11610 North College Avenue
Carmel, IN 46032

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 member utilities purchase their power through IMPA and deliver that power to the residents and companies within the community.

Substation

noun.

A facility used for switching and/or changing or regulating the voltage of electric energy. A substation may tie generating stations to transmission systems or transmission systems to distribution systems.

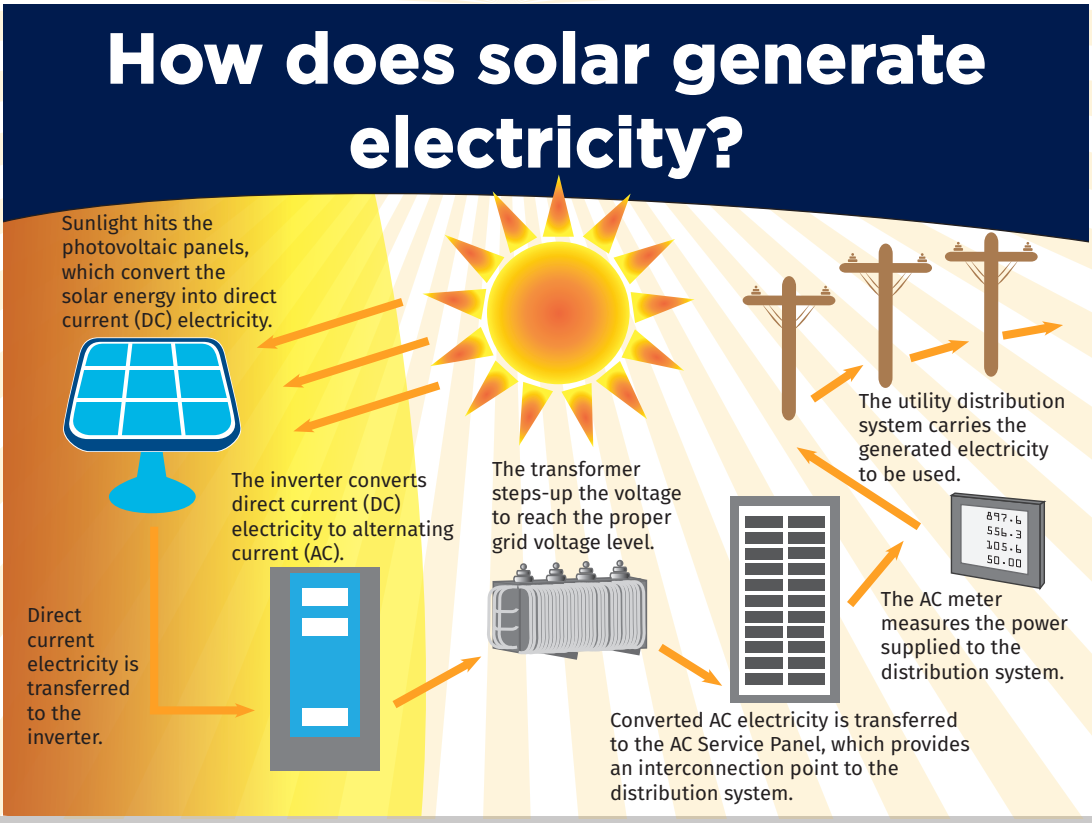
IMPA Continues Building Solar Parks in Local Communities

Throughout the last two years, the Indiana Municipal Power Agency (IMPA) has constructed nine solar parks in large and small IMPA communities throughout Indiana. This year, the Agency is in the midst of constructing four additional solar parks in the communities of Anderson, Huntingburg, Waynetown and Washington. These solar parks are all aimed at adding more renewable and economical energy resources to IMPA's power portfolio.

When energy is created by the solar parks, it is then placed onto the local distribution system in whichever town or city the solar park is located in. As the solar power is produced, it becomes a part of all of the electric generation that is supplying the system, which is typically a mixture of power produced via coal, natural gas, solar, wind and nuclear.

The process of generating electricity from the sun may seem to be a complex one, but in reality, is really quite simple. When sunlight hits the solar panels, the panels convert that energy into direct current electricity. That electricity is transferred to an inverter, located within the solar park. The inverter then takes the direct current electricity and converts it into alternating current (AC) electricity. Once converted to AC, the transformer steps-up the voltage to the proper level, and is then transferred to the interconnection point on the distribution system. The AC meter measures the energy from the solar park prior to its connection to the distribution system and ultimately the customer.

IMPA plans to add approximately 10 megawatts of solar capacity into its overall power portfolio each year, meaning more and more IMPA member communities will have solar parks within the coming years. For more information on IMPA's solar parks, visit www.impa.com.



Cooking Corner

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

Chicken and Dumpling Casserole

Recipe submitted by Vicky Hicks-Spear of Tell City, Indiana.

-1 pound chicken breasts
-2 cups chicken broth
-1/4 cup butter
-2 cups Bisquick
-2 cups whole milk
-1 can cream of chicken soup
- 3 tsp. chicken bouillon
-1/2 tsp. sage
-1 tsp. black pepper
-1/2 stick butter

Preheat oven to 350 degrees. In a 9x13 baking pan, melt 1/2 stick butter. Shred chicken and spread over butter. Sprinkle black pepper and sage over the chicken. Do not stir. In a small bowl, mix milk and Bisquick. Slowly pour over chicken. In another medium bowl, whisk together 2 cups of chicken broth, chicken bouillon and soup. Once blended, slowly pour over the Bisquick layer. Bake casserole for 30 to 40 minutes, or until golden brown.

Strawberry Delight

Recipe submitted by Burdett Parsons of Washington, Indiana.

-1 pre-made angel food cake
-8 oz. cream cheese
-16 oz. strawberry glaze
-16 oz. tub whipped cream
-1 1/3 cup sugar
-1 qt. fresh strawberries

Tear angel food cake into pieces and mix with 1/3 of the tub of whipped cream. Put whipped cream mixture into the bottom of a serving dish. Mix the rest of the whipped cream with the cream cheese and the sugar and place on top of the cake. Slice strawberries into quarters and mix with the strawberry glaze. Then, spread the strawberry mixture over the top of the cake.

The **MUNICIPAL POWER NEWS** is a periodic publication of the Indiana Municipal Power Agency and the 60 communities that it serves with wholesale power.

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IMPA Commissioner: John Reutepohler

Solar Park

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"This has been a great partnership between IMPA and Huntingburg," said John Reutepohler, Electric Superintendent and Huntingburg IMPA Commissioner. "IMPA has really invested in our community by constructing this solar park. It comes at no additional cost to tax payers and really provides a great benefit to our town. "

IMPA began constructing solar parks in 2014 as an effort to incorporate more renewable sources of energy within its power supply diversification plan. Three solar parks were built in 2014, and an additional six were constructed in 2015. Four solar parks will come online in 2016, including Huntingburg, Anderson, Washington and Waynetown, Indiana. By the end of the year, IMPA will have a total of 24 megawatts of solar energy in its power portfolio.

"IMPA continues to expand our diverse portfolio through the addition of solar energy in our member communities," said Raj Rao, IMPA President and CEO. "Our ongoing commitment to providing a low cost, reliable and environmentally responsible power supply to our 60 member communities is a top priority for the Agency. We are strengthened by our relationships with our members, and were pleased to partner with Huntingburg in the development of this solar park."

IMPA provides real-time data on each of its solar parks on its website, allowing website visitors to see how much power the solar parks are generating at any given time. To find out how much power the IMPA Huntingburg Solar Park is generating, visit www.impa.com, click on the "Spotlight IMPA Solar Parks" on the homepage, and choose IMPA Huntingburg.