



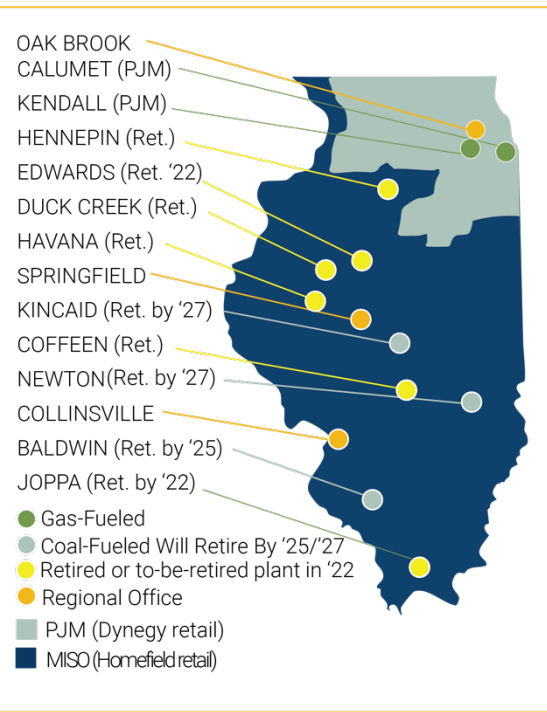
ILLINOIS COAL TO  
**SOLAR**  
& Energy Storage Initiative

*Joppa Comprehensive  
Plant Site Update  
April 2022*

**VISTRA**

# A First-in-the-Nation Fleet Transformation:

## *An Innovative Pivot From Plant Retirements to Renewables*



Since the passage of the **Energy Transition Act**, Vistra has been working to obtain all regulatory approvals and submitted development agreements or contract proposals with state agencies to implement the **Coal to Solar and Energy Storage Initiative**.

Vistra has submitted applications to support the development of:

- **Stand Alone Battery Energy Storage Facilities:** At three coal plant sites that do not have characteristics to support utility-scale solar development, we will build battery energy storage facilities.
- **Solar Generation + Energy Storage Facilities:** At six coal plant sites we will develop co-located utility-scale solar generation and battery energy storage facilities.

We anticipate that relevant state agencies will make contracting and grant awards in the coming weeks.

We expect to have the confirmed status of **Joppa's energy storage development agreement by June 1, 2022** and will file paperwork with MISO to obtain regulatory approval for the project upon the plant's retirement.

# A Renewed Purpose For Joppa Provides A Just Transition: *New Renewable Plant Provides Stable Source of Property Taxes*

## Impact of Coal to Solar & Energy Storage Act Investment at the Joppa Plant Site



Up to 101 Total Direct, Indirect &  
Induced Full-Time Jobs Created  
in the Local Community



Up to \$5.9 M in Earnings for Local  
Workers & \$10.2 M Boost for the  
Local County Economy



Up to 155% Increase  
In Property Taxes From  
Plant to Local Governments

~\$47 M

Invested at Plant



37 MW

Adapted From Economic Analysis of Dr. David Loomis of Strategic Economic Research, LLC, March 2021

Status: Pre-submission engineering and review

Acres Required For Development: 1.5

Construction Time: 12 – 18 Months

Site Work Begins: Est. Q3 2023

Estimated Delivery Window: June 2025

Estimated New Property Tax Level: \$1.7 –  
\$2.1 M

# Responsible Retirement of the Joppa Power Plant:

## *Treating Workers With Dignity & Committed To Transparency*

In April 2021, Vistra announced the Joppa Power Plant would retire no later than Sep. 1, 2022. With every retirement, we prioritize treating our dedicated energy workers with respect and dignity. Specifically in Joppa we have:

- **Honored all our previous commitments** on wages, benefits and health care outlined in our local collective bargaining agreement.
- Entered into **Effects Bargaining** with the local union employee group (IOUE Local 148) and finalized a comprehensive severance agreement.
- Offered up to **\$10,000 annually in up-front tuition reimbursement** to all active employees to take educational classes or training of their choosing.
- We will offer employees the opportunity to transfer within the company and offer a **third-party outplacement program** to employees at no cost to them.

Vistra is committed to assisting our employees throughout the closure process.

# Responsible Retirement of the Joppa Power Plant:

## *Ensuring A Just Transition & Supporting The Community Tax Base*

### Joppa Power Plant Property Tax Payments

Annual Value:  
~\$828,000

Historical 5  
Year Avg.  
(2017-2021)

Voluntary  
4-Year Bridge  
\$1.7 M /  
Avg. Annual  
~\$425,000

Transition  
Period

Renewed  
Joppa  
Plant - 37 MW  
Energy  
Storage  
Annual  
\$1.7 - \$2.1 M

Battery Energy  
Storage Active  
(Est. 2025)

A retired power plant has minimal taxable or economic value compared to an operating plant. Vistra proposed and advocated for the Coal to Solar & Energy Storage Initiative to help spur **investment, construction activity and build a new tax base** in plant communities affected by the retirement of coal plants.

It is currently projected that the battery energy storage center to be built at the Joppa Power Plant site will generate up to **155% more in annualized property taxes** compared to the average property tax generated by the plant from 2017-2021.

A 37 MW battery energy storage center will generate **more local money** for area schools, government services and roads than the legacy coal plant.





***Joppa Environmental &  
Property Update:  
April 2022***

# Community Update:

## *April 2022*

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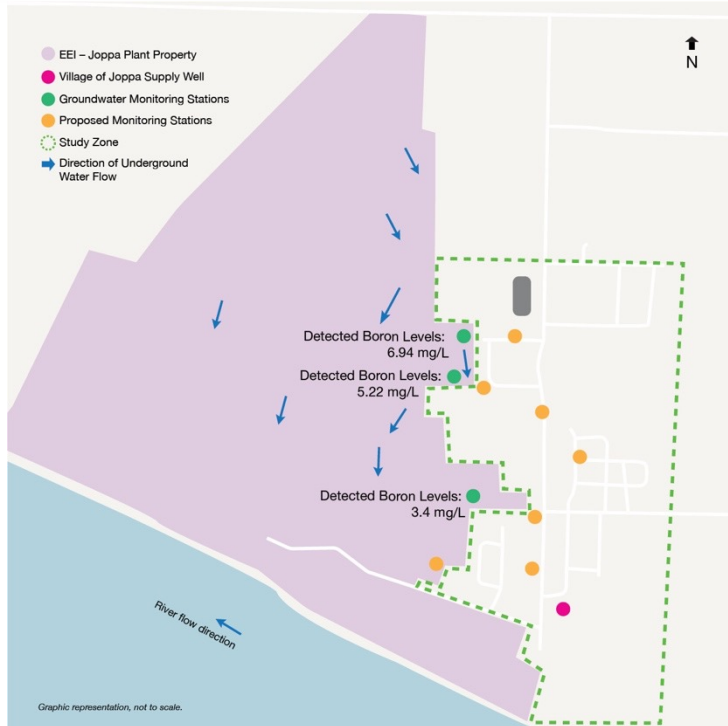


Vistra and Electric Energy Inc. (EEI), the entity that owns the Joppa Power Plant, are committed to the responsible retirement of the Joppa Power Plant and repurposing the facility into an energy storage facility. Recently, monitoring stations detected **elevated levels of boron** at the **edge of the plant's property**.

Boron is found in nature and everyday items such as fruits, vegetables, and seawater. The current detected levels of boron exceed state standards, but **there is no known health risk to the public drinking system**.

There is **no evidence the aquifer used by the Village's public water system has been impacted**.

# Next Steps: Gather Data, Communicate & Take Corrective Action



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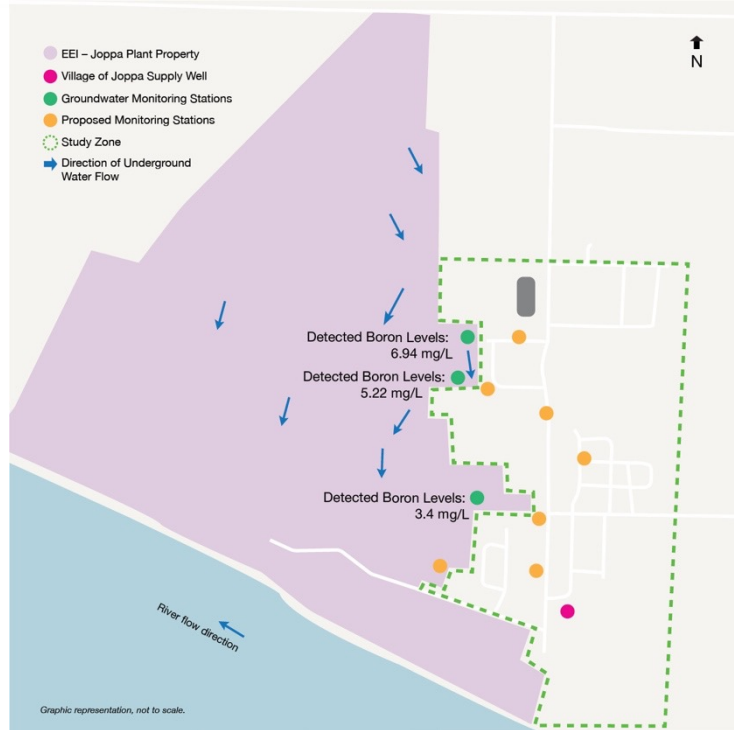
We have briefed local, regional, and state officials and are working in partnership to **install additional monitoring stations** to gather more data.

Property owners with **private drinking wells or irrigation wells are encouraged to contact the company to have their well tested.** EEI will cover the cost and share the results of the testing.

The company is evaluating interim corrective measures that can be implemented.



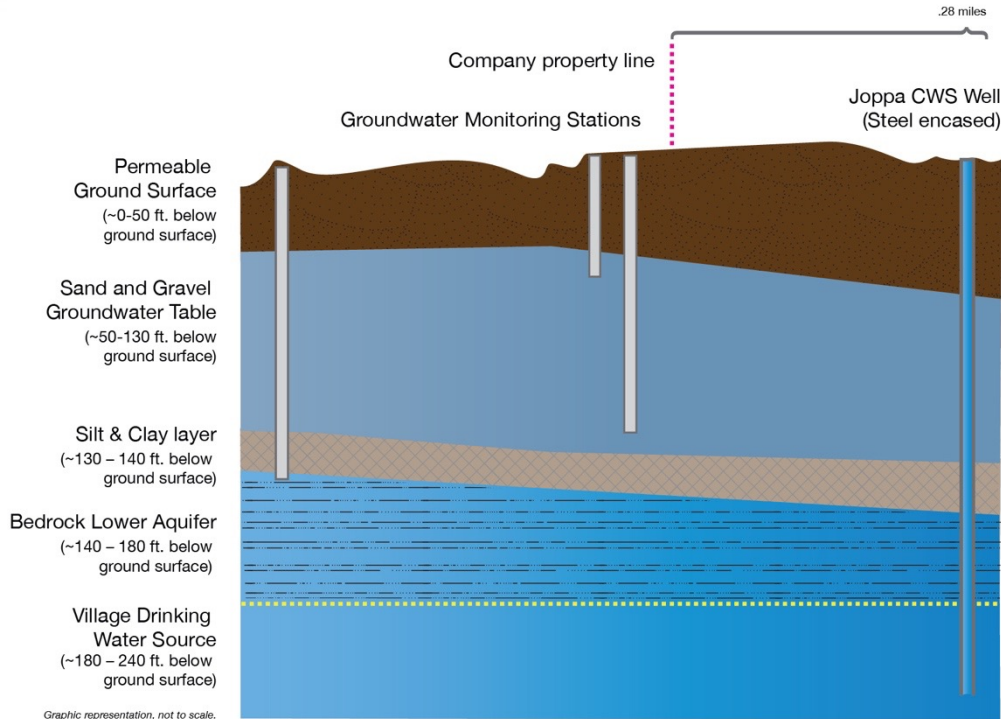
# What We Know Now: Potential That The Constituent Has Moved Off EEI's Property



The detected levels of boron at these groundwater monitoring stations exceeding the applicable state groundwater standard of 2.0 milligrams per liter (mg/L) range from 3.4 mg/L to 6.94 mg/L.

The **elevated levels of boron have been detected** near the Plant's property boundary in the groundwater in the upper aquifer **at depths of 55 to 130 feet below the ground's surface**. There is a possibility that the constituent has moved off of EEI's property and that elevated levels of boron may or may not be found in the groundwater to the east and southeast of the Plant.

# What We Know Now: No Evidence Public Water Aquifer Impacted



There is no evidence that groundwater in the lower aquifer, which supplies the Village's public water supply well, has been impacted.

The lower aquifer is separated from the upper aquifer by a confining layer of silt and clay. The top of the lower aquifer begins at a depth of 140 feet below the ground's surface, and the **Village's public supply well collects water from between 180 to 240 feet below the surface.**

# What Is Boron

Boron is an element found in fruits, vegetables, and even seawater. Many everyday items such as cosmetics, dietary supplements, and cleaning products contain boron.

The **National Institutes of Health Office of Dietary Supplements** details select concentrations of boron that occur naturally.

Selected Foods	Milligrams of Boron per serving
Prune juice, 1 cup	1.43
Avocado, raw, cubed, ½ cup	1.07
Raisins, 1.5 ounces	0.95
Peaches, medium-sized	0.80

Boron is found in dietary supplements containing only boron and also containing boron in combination with a few other nutrients, often other minerals. Common amounts of elemental boron in nutritional supplements range from 0.15 to 6 milligrams per serving.

# Known Health Impacts of Boron

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While boron is naturally occurring, studies have been conducted to determine if ingestion in high concentrations poses health impacts. Excess consumption of boron can potentially cause health impacts in humans. **The current detected levels of boron in the upper aquifer at the property boundary are significantly less than the concentrations which can be associated with health impacts.**

The following links are independent government resources regarding the health impacts of boron consumption:

The Centers for Disease Control:

<https://wwwn.cdc.gov/TSP/substances/ToxSubstance.aspx?toxid=80>

US EPA – Health Effects Support Document for Boron:

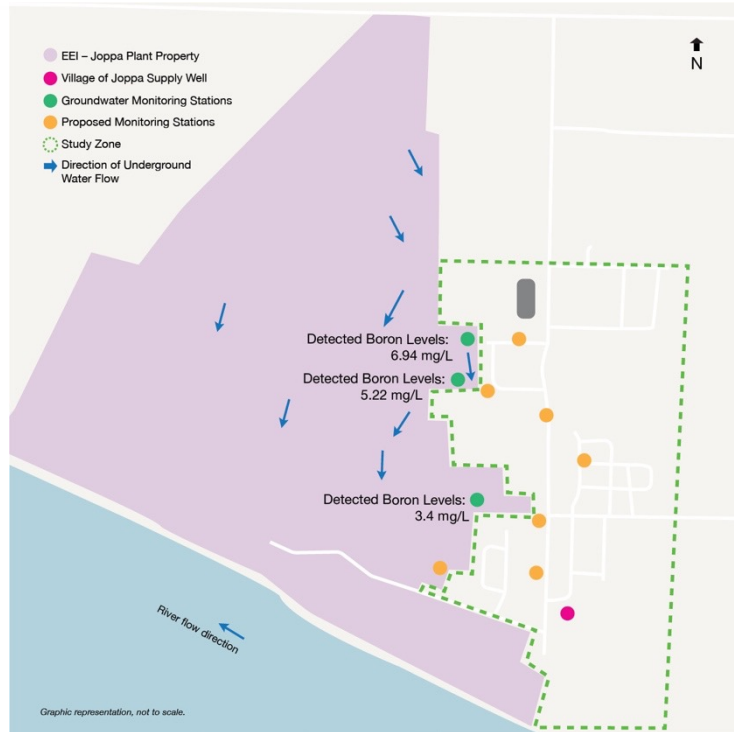
[https://www.epa.gov/sites/default/files/2014-09/documents/health\\_effects\\_support\\_document\\_for\\_boron.pdf](https://www.epa.gov/sites/default/files/2014-09/documents/health_effects_support_document_for_boron.pdf)

US EPA – Drinking Water Health Advisory for Boron:

[https://www.epa.gov/sites/default/files/2014-09/documents/drinking\\_water\\_health\\_advisory\\_for\\_boron.pdf](https://www.epa.gov/sites/default/files/2014-09/documents/drinking_water_health_advisory_for_boron.pdf)



# What EEI Is Going To Do: Take Corrective Measures



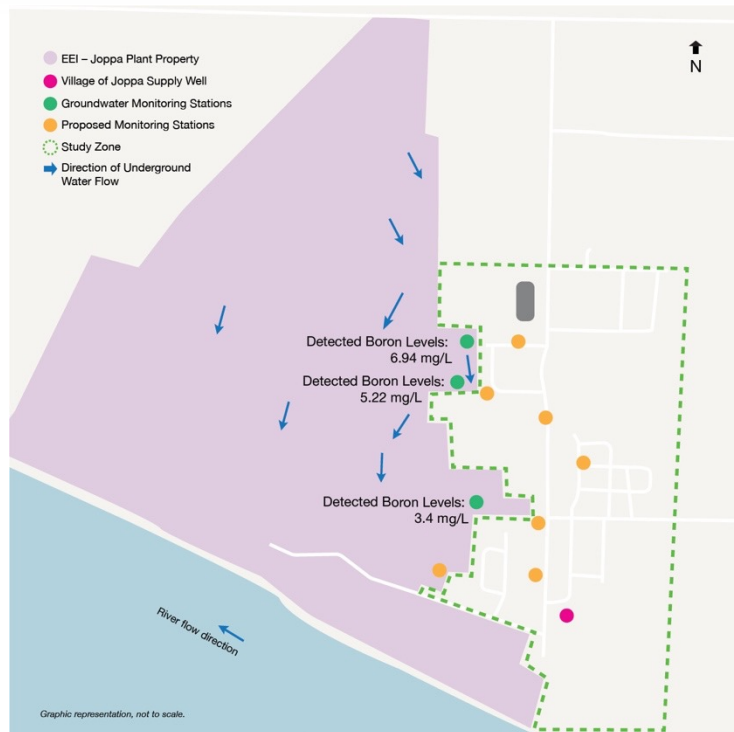
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EEI is taking swift action to **collect additional data** and has already begun work to **implement interim corrective measures** ahead of a permanent closure plan for the East Ash Pond.

EEI is also in the process of implementing a pilot study to evaluate the extraction of groundwater to help redirect it before it potentially moves off the plant's property. This system would collect the extracted water and then manage it appropriately.

Making the extraction system operational requires further data collection, testing, and permitting, but **EEI is moving promptly to have the groundwater extraction system permit-ready by fall 2022.**

# What EEI Is Going To Do: Test Any Private Irrigation or Drinking Wells In Study Area



Out of an abundance of caution and to assist with data collection, **EEI requests that any property owner within the Village with a private irrigation or drinking water well contact EEI to have your well tested.**

EEI will cover the cost of the testing and share the results with the well owner.

Request a test of a private well by contacting EEI:

[www.renewillinoispower.com/joppa](http://www.renewillinoispower.com/joppa)

214-812-5777

[joppa@renewillinoispower.com](mailto:joppa@renewillinoispower.com)

# Our Commitment to Joppa

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EEI is committed to a responsible retirement of the Joppa Power Plant and to being a good steward of the property.

Working with the community and Illinois EPA, **EEI will address any exceedances of various residual substances, including boron, on or around the plant's property.**





# Closing The Plant's East Ash Pond As Part of the Plant Retirement Process

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Coal plants relied on man-made ponds to collect the byproducts of burning coal to make electricity, known as coal combustion residuals or CCR.

The byproducts are stored wet in the ponds, referred to as "surface impoundments" or "coal ash ponds." It is now time for EEI to permanently close the East Ash Pond.

**State regulations known as "Part 845" ensure that CCR is disposed of in ways that protect the environment and public health.**



# The State Mandated “845” Closure Process Is Rigorous

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Part 845 regulations contain comprehensive requirements for public notice and community engagement and require EEI to undertake rigorous analysis before requesting a permit from Illinois EPA.

Any approved closure plan will be **guided by science** to ensure the permanent closure is **protective of public health and the environment**.

By June 1, the company will make available the draft closure documents for the East Ash Pond on the company’s publicly accessible CCR website, <https://www.luminant.com/ccr>.

There will be local public meetings on the draft permit in June, and the plant will post detailed information in advance and in the formats required by state regulations.



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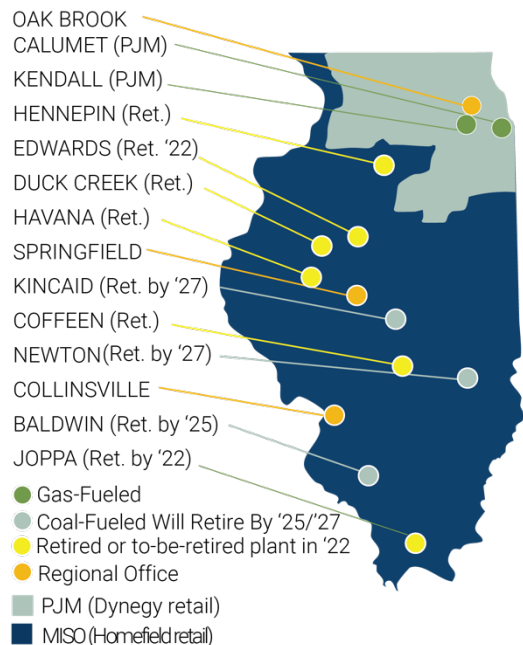


Vistra has taken decisive steps to responsibly operate, retire, and transition its Illinois legacy coal fleet to be anchors of Illinois' new zero-emission, renewable energy economy.

The company is committed to helping plant communities and employees through the transition to renewable energy. Vistra will maintain a local presence for decades to come as it completes the following projects:

- **Coal to Solar & Energy Storage Initiative:** Vistra will spend over \$550 million to develop approximately 300 MW of utility-scale solar and 150 MW of battery energy storage at nine plants by 2025.
- **Responsible Retirement & Closure Process:** Vistra is committed to environmental stewardship and the responsible closures of its legacy fleet and coal ash impoundments. The company is in the process of finalizing closure plans for each plant site consistent with state and federal regulations.

**Vistra has committed over \$1 billion to build renewables at plant sites and ensure its legacy coal plants are responsibly retired, remediated and closed across the state. We are committed to our plant communities.**



# Contact Us:

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