RWE

RWE Clean Energy

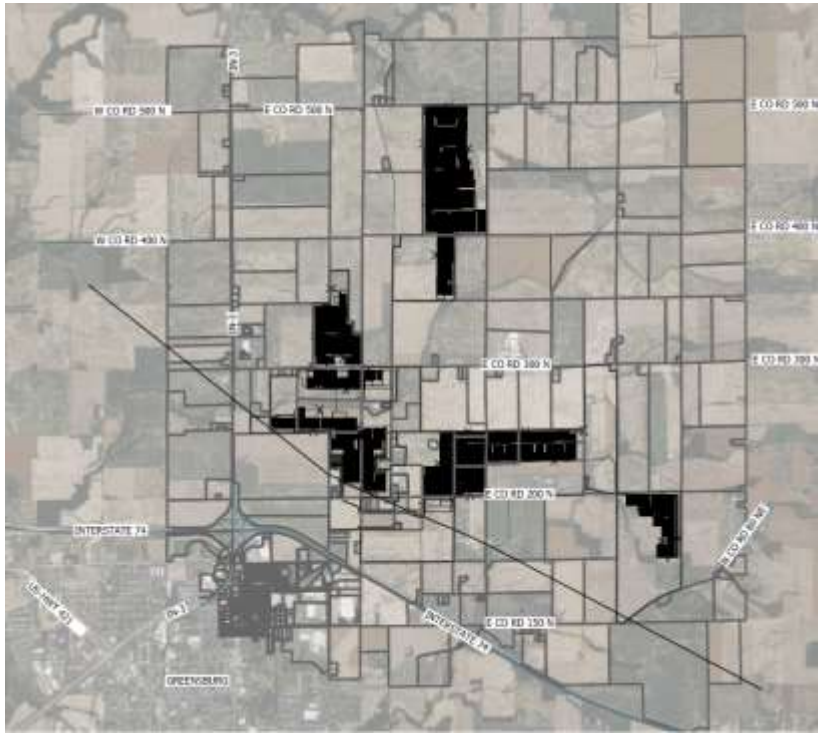
Greensburg Solar, LLC

Agrivoltaics

Greensburg Solar Project Overview

RWE will develop, own, & operate the Greensburg Solar project and be responsible for its decommissioning after operations

- **Size:** 140 megawatts (MW) solar PV
  - Can power 23,855 homes (Decatur County has ~10,500 homes)
- **Townships:** Washington, Clinton
- **Project Footprint**: ~1,000 acres
  - 30 participating landowners (15 leases)
- **Point-of-Interconnection to the Grid:** Greensburg Switching Substation (Duke Energy)
- **Construction:** Q4 2025 start, 12-15-months
- **Operations:** Q4 2026 start, 35-40 years
- **Project Investment:** ~$250 million



Dual Use Land

Topsoil preservation – Operations and Dual Use

Agrivoltaics, also known as **agrisolar or dual-use solar**, is the practice of using land for **both agriculture and solar power generation**. It was developed to allow for **more solar development** to address climate change **without the land-use challenges** that large-scale solar operations often have

Dual Use Land

Topsoil preservation – Operations and Dual Use

- Vegetation Management will employ **Rotational Sheep Grazing** performed by **Hoosier Solar Grazing in partnership with Baron Deck**.
- Topsoil will **benefit from deep root systems, trampling, natural fertilization**, and an **alternative commercial agricultural** activity.
- Interest from several **Decatur grazers in creating a Coop** involved in **agrivoltaics and regenerative agriculture. New business venture**.

The Economics of Solar Grazing

By Tyler Swanson, Quin Karhoff, Jessica Guarino, & Bryan Endres
Bock Agricultural Law & Policy Program

Average Years of Grazing Experience

1.5

6.5

Average Months in Grazing Season

1.5

Average Seasons of Solar Grazing Experience

Start-Up

Pickup Trucks and livestock are the most common initial purchases made when starting a solar grazing operation.

Operation

14.75 Hours a week allocated to on-site labor

Average Acres Grazed per season **55**

125 Sheep Grazed Per Operation

Hours a week allocated to travel **8.17**

5 Trips to the solar site per week during the grazing season

23.55 Miles between home and solar site

75% Of Survey Respondents Conduct Vegetation Management

The Most Common Vegetation Management Practices Are **Line Trimming Mowing**

Business

5.67 Hours A Week Allocated to Business Administration

36 Lambs Sold Per Year

9 Ewes Sold Per Year

5 Rams Sold Per Year

Solar Grazing

Topsoil preservation – Operations and Dual Use

https://solargrazing.org/film/

Dual Use Land

Topsoil preservation – Operations and Dual Use

Livestock Inventory in Decatur County	1969	2022
Cattle	34,290	16,294
Hogs	112,438	172,409
Sheep	3,710	811
Hens	38,378	483

% of Gross Sales by Decatur County Farmers	1969	2022
Crops	28%	53%
Livestock	72%	47%

Dual Use Land

The Greensburg Solar project is **integrated** into agricultural land; it relies on dual-use of land to operate; **a transition between agricultural activities**.

- 60 acres of setbacks / 3 mi of vegetative screens protect residential areas from potential adverse impacts. Setbacks can be planted with corn, beans, or other crops, further decreasing visibility. **FoF 2, 4. Prov. 2, 3**

- Design and construction minimize cutting and filling. Pre and re-seeding, and mulching, among other measures minimize erosion and runoff during construction. **FoF 1, 6, Prov. 4**

- Project will employ commercial rotational sheep grazing, a **viable commercial agriculture activity that enhances topsoil health**. **FoF 2, Prov. 5**

Greensburg Solar project Benefits

Project is consistent with County's Vision & Values, and meets or exceeds the Solar Ordinance provisions and FoF

- **It will not consume ag land**; it will introduce a new **alternative agricultural business venture**.
- It will **preserve land ownership,** is **consistent with landowner property rights, and is a temporary use**.
- It will **prevent residential development** in proximity to the I-74 / SR 3 Interchange.

Economic Benefits

- **~ $250M investment**, a **~$72M increase in County assessed value** and **~$1M of property taxes per year**, with **no increase in resident property tax rate**.
- **Additional income** introduced to the County from rent payments.

Greensburg Solar project Benefits

Grid Resiliency

- Home-grown electricity to power ~ 25,000 homes; during a significant **decrease in state-wide generation capacity**. County will depend less on **out-of-county electricity**.

Health and Safety

- Properly camouflaged project which doesn't add Smoke, Dust, Fumes, Glare, Odors.

- The Project will work with the County's fire department and will be constantly monitored by RWE's control room.

RWE

Thank you. Questions?

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