

PROJECT DILIGENCE OVERVIEW

Solar facilities are subject to extensive diligence and oversight from federal, state, and local agencies, requiring many studies and plans to create the best project possible for host communities.

Diligence underway or soon to begin:

- Wetland and waterbody delineation
- Protected species habitat assessment
- Phase I environmental site assessment
- Cultural resources assessment
- Traffic impact study
- Economic impact assessment
- Erosion and sediment control plan
- Property value assessment
- Noise evaluation
- Visual simulations
- Landscaping schematics
- Glare study
- FAA hazard determination review
- Decommissioning plan



KENTUCKY SITING BOARD PROCESS

BrightNight is working with a team of consultants to complete studies and prepare an application for a Construction Certificate (KRS 278.700-718).

The Kentucky Siting Board (KSB), which will include two appointed McCracken County residents, will use their own consultants in review of the application. The KSB process is designed to include public participation throughout. An evidentiary hearing will be held prior to the KSB decision, which includes sworn expert testimony.

The KSB review focuses on three areas:

- Impact to surrounding community;
- 2. Economic impacts; and
- 3. Impact onto the electric transmission grid.

Public Meeting
October 2022

3 MONTHS

Application Submittal January 2023

Hearing(s)
Summer 2023

Board Decision July 2023

6 MONTHS



PHASES OF CONSTRUCTION

Phase 1:

Site Prep 3-4 months Phase 2: Racking Installation 2-3 months

Phase 3:
Panel
Installation
2-3 months

Phase 4:

Electrical Install 2-3 months

Phase 5: Final Testing & Landscaping 2 months

Key developments

- Minor site grading
- Tree clearing as needed
- Soil erosion mitigation
- Equipment delivery
- Perimeter fencing
- Install project access roads

Key developments

- Equipment delivery
- Rows of posts placed in the ground over the project area
- Install mechanism to move solar panels
- Begin installing electrical equipment

Key developments

 Panels are installed on racking by construction crew

Key developments

- Lay cabling in trenching
- Connect cabling

Key developments

- ~3,300 trees to be planted post construction
- Inspections of installed equipment
- Power testing
- Site safety testing and training

What to expect

- Temporary traffic
- Use of machinery limited to daytime hours

What to expect

- Equipment delivery vehicles
- Some machine noise while posts are installed

What to expect

- Project will begin to take shape
- Majority of construction noise complete from this phase forward

What to expect

- Electric crews onsite for installation
- De-mobilization of large construction equipment

What to expect

- Inspection crews
- Plant begins operating



Construction Equipment





Racking Installation



Panel Installation



Electrical Install



Final Testing & Landscaping



Photos selected from similar projects



COLLECTING AND TRANSPORTING THE ELECTRICITY

- One central inverter for every 38 acres will be placed to convert the solar energy to the type of electricity used on the grid
- Monitored remotely for safety and performance
- Inverters will be placed at the interior of the project so that the humming sound will not be detected beyond the project perimeter
- Inverters will only operate during the day





WHAT IS SOLAR PROJECT DUAL-USE?

Dual-use is the co-location of solar projects with agricultural or non-conventional soil and vegetation management applications that help to make the most of solar project land

Benefits

- Lower vegetation management costs with no change in design
- Additional local job creation
- Less damage to equipment compared to traditional mowing
- Better soil quality compared to standard grass and mowing

- Land remains in **agricultural use** for life of the project
- Quieter than mowing
- Lower greenhouse gas emissions because of reduced mowing and locally sourced products
- Higher yields on neighboring agricultural land
- Creates a more **beautiful** project

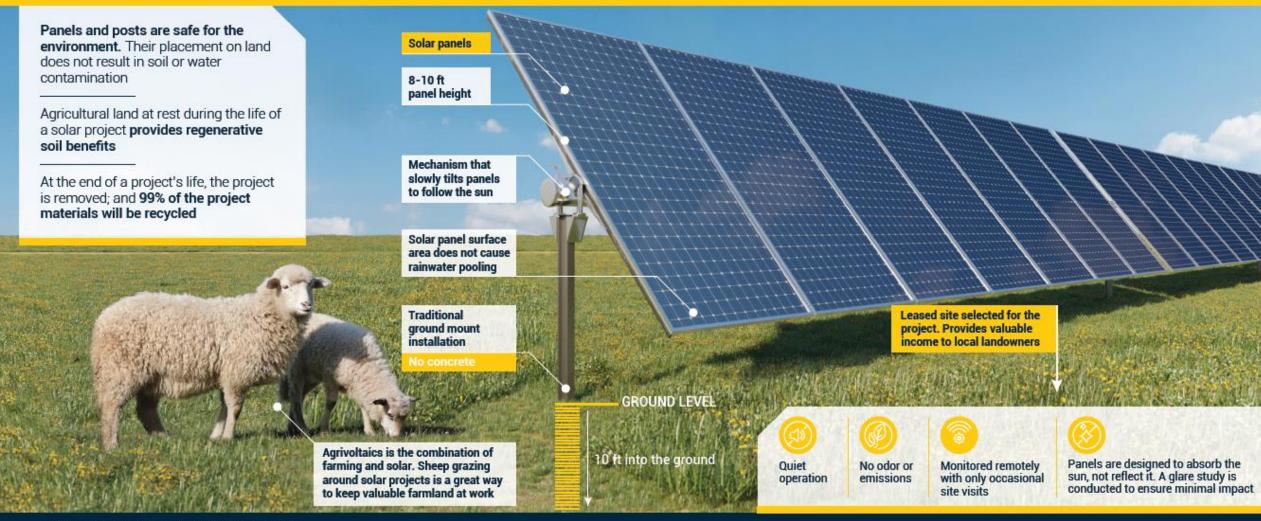








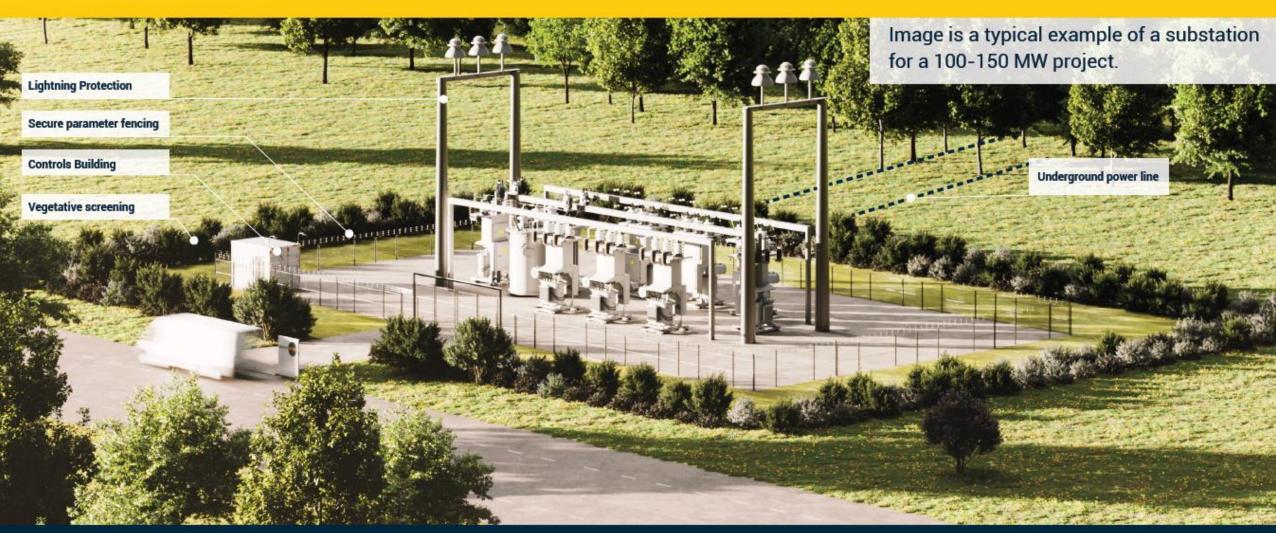
Anatomy of a solar project



SIMULATION | PICTURED ON FLAT TERRAIN



Anatomy of a substation



SIMULATION | PICTURED ON FLAT TERRAIN



What will you see from your home?





What will you see from the road?



