Monmouth Plant - Boiler Emissions Offset Tree Program

January 27, 2020
Monmouth, IL Facility

• 1,720 total employees

• 12,300 head harvested per day

• 442,000,000 lbs. produced annually

• About 3.5 hours Southwest of Chicago. Sixteen miles east of the Mississippi River.
Plant Activities

✓ Ham Boning - 580,000 lbs per day / 150 million lbs. annually
Plant Activities

✓ Loin Boning - 400,000 lbs per day / 104 million lbs annually
✓ Picnic Boning - 131,000 lbs per day / 34.1 million lbs annually
Plant Activities

- Case Ready - 61,000 lbs. per day / 16 million lbs annually
Plant Activities

- **St Louis Ribs** - 60,000 lbs. per day / 15.6 million lbs. annually
Plant Activities

- Seasoned Ground Pork (Export) – 90,000 lbs. per day / 23.4 million lbs. annually
Plant Activities

- Bacon – 200,000 lbs. per day / 62 million lbs. annually
Plant Activities

- Marination/Seasoning Room – 14,000 cases per day / 3.6 million cases per year
Project Description

- Smithfield Foods company-wide goal: reduce GHG Emissions 25% by 2025
  - Facilities challenged to reduce emissions 5% by 2020

- Monmouth facility invested in high-efficiency burners and low NOx burners.

- Facility environmental team got creative…
The Process

- The facility Environmental Coordinator partnered with IL Dept. of Natural Resources & Living Lands and Waters
- Bought thousands of oak tree saplings
- Invited employees, community members and area stakeholders to help plant around local community
  - **12,000** residents
The Process

- 150+ employees
- Monmouth College Environmental club
- Several local school districts
- Eagle Scouts
- 8-acre bottom-land recovery project
The Results

- Has been on-going for 5 years
  - 2019 – 1,783 trees planted
  - Overall – 12,514 trees planted

- Using American Forest Carbon Calculator: 13,115,244 lbs. of CO2 sequestered over a 20-year period.

- Idea has spread to other facilities in VA & CO