

Process Flowchart



VS



- Single-pass
- Collect with corn
- Need attachment to combine
- Not available to public

- **Multi-pass**
- **Collect after harvest**
- **Requires baling to gather and store**
- **Can decompose over time**

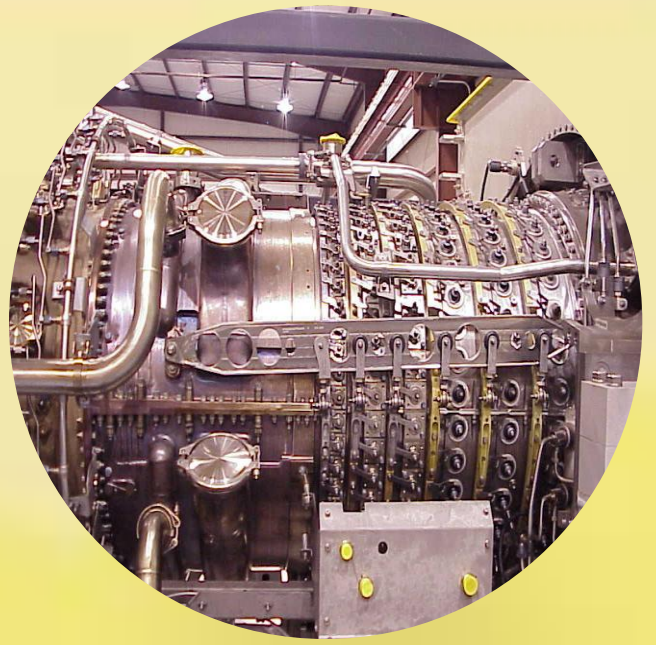
On Field



Small scale

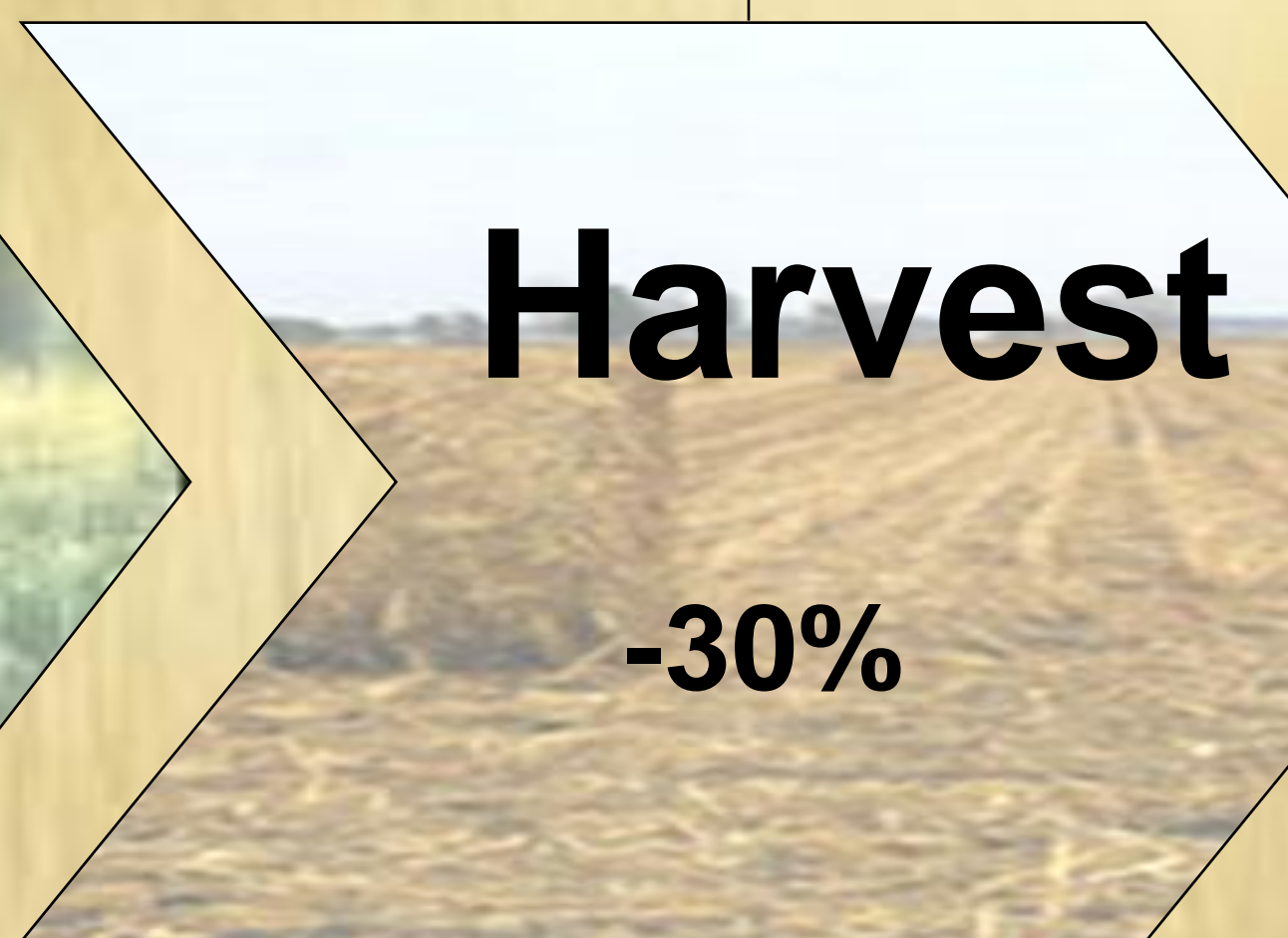
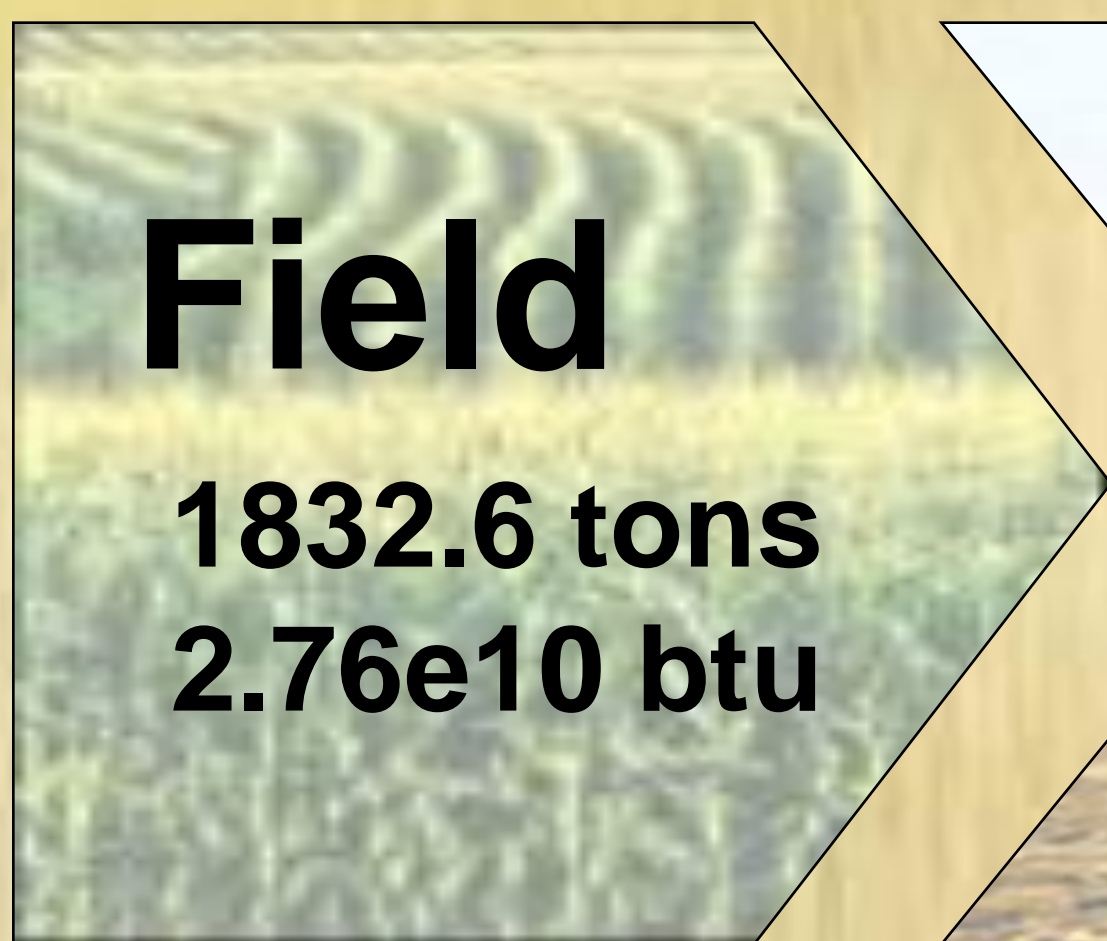


VS



- Steam turbine
- Capacity in MW: 0.5 – 5
- Electrical efficiency 6–10%
- Cheaper

- **Gas turbine**
- **Capacity in MW: 1 – 15**
- **Electrical efficiency 22–32%**
- **More costly**



- 2.7 x 10⁸ bushels of stover available in Illinois



VS



- **Stover**
- **Leaves and stalk**
- **Waste product with no other current uses**

- Kernel
- Competes for land and resources
- Corn for food - not for fuel!



VS



- **Square Bales**
- **Requires multiple people**
- **Easier to move via truck**
- **Better stacking efficiency for long-term storage**

- Round Bales
- Done by one person
- Harder to move
- Inefficient stacking

In a Facility



Large scale



VS



- Water
- Cheapest cost
- Limit to waterways

VS



- Railroad
- Cheaper than truck
- Limit to rail destinations
- Loading/unloading issues with square bales

- **Truck**
- **Easiest loading/unloading**
- **Can reach almost all destinations**

IPRO 349