



# Proposed Wind Farm at Plum Brook Station

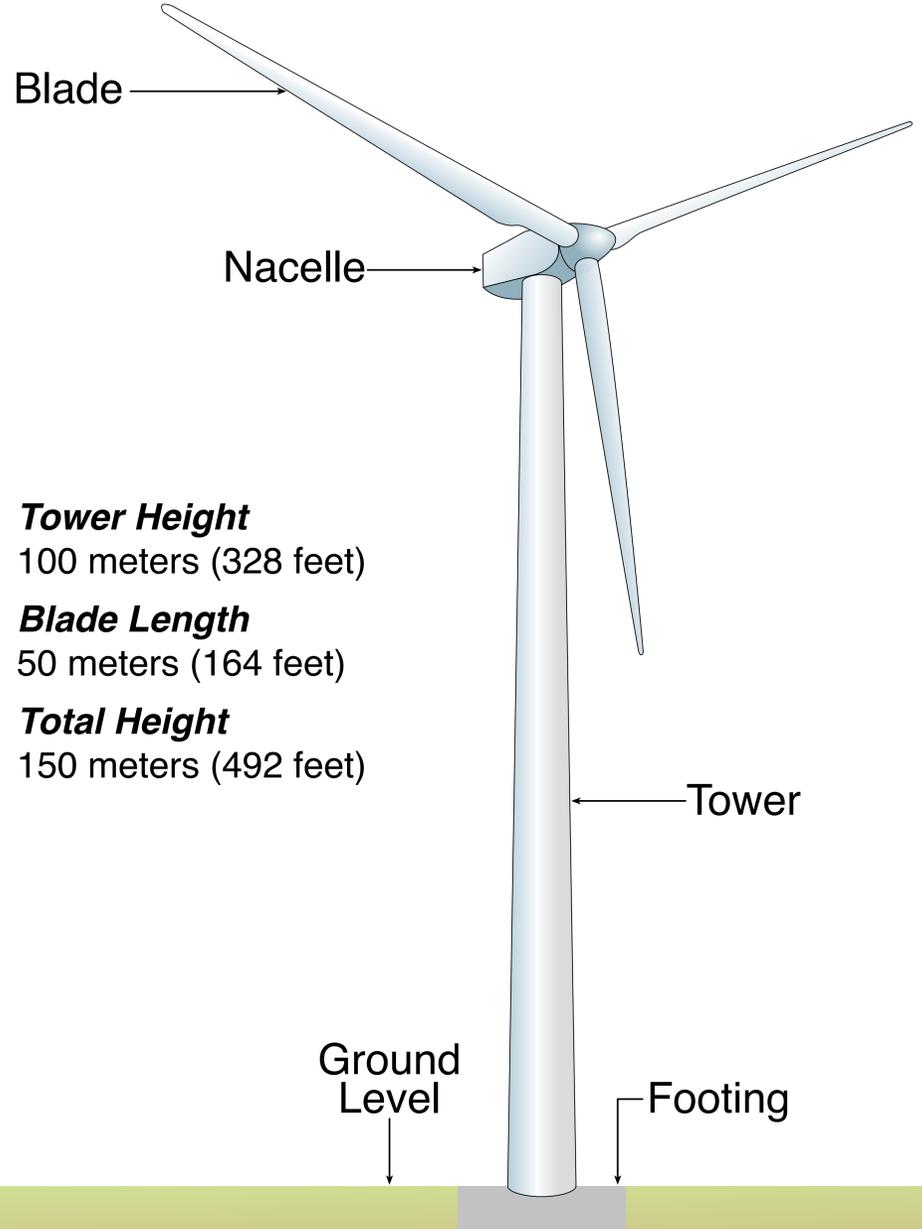


NASA Glenn is evaluating the potential siting of a wind farm on underutilized property at Plum Brook Station to meet federal renewable energy goals for the agency

## Proposed Action

- NASA Glenn is considering a 20-25 year partnership with a commercial wind energy developer
- Area under consideration would be a 2000-acre tract of land at Plum Brook Station
- Wind farm could consist of up to 26 wind turbines, each rated at up to 2.5 megawatts (MW)

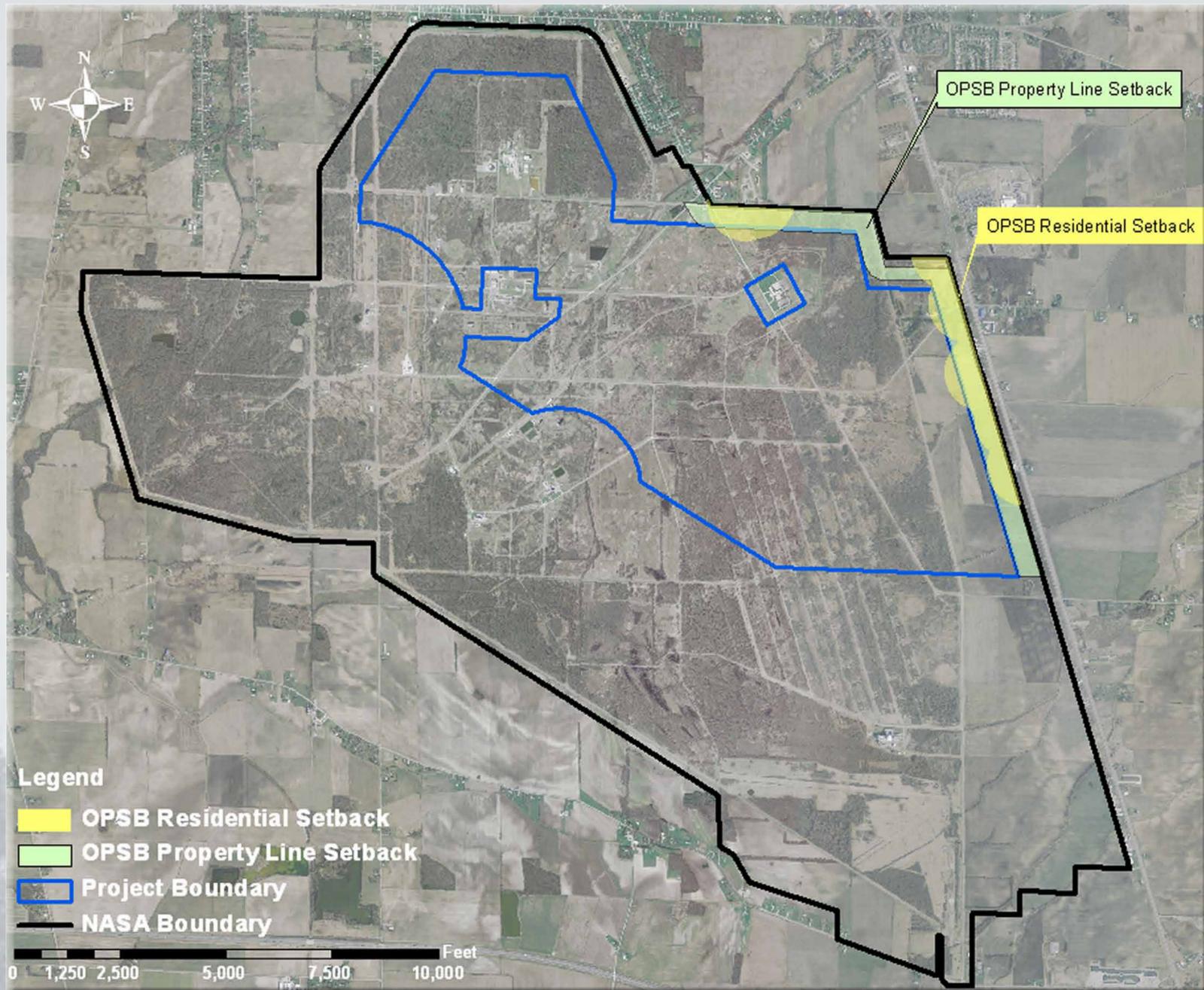
## Proposed 2.5 MW Wind Turbine Design



**Tower Height**  
100 meters (328 feet)

**Blade Length**  
50 meters (164 feet)

**Total Height**  
150 meters (492 feet)



## Ohio Power Siting Board

Major utility facilities within the state of Ohio must be certified by the Ohio Power Siting Board. The Ohio Power Siting Board has established setbacks to ensure that wind farms are a suitable distance from the property boundary or any residential home

### Property Line Setback

The distance from a wind turbine base to the property line of the wind farm property shall be at least one and one-tenth (1.1) times the total height to the tip of its highest blade (492 feet).

**= 542 feet from the Plum Brook Station Property Line**

### Residential Setback

The distance from a wind turbine base to the nearest habitable residential structure shall be at least seven hundred fifty feet plus the length of the turbine's blade (164 feet).

**= 915 feet from nearest residence**