

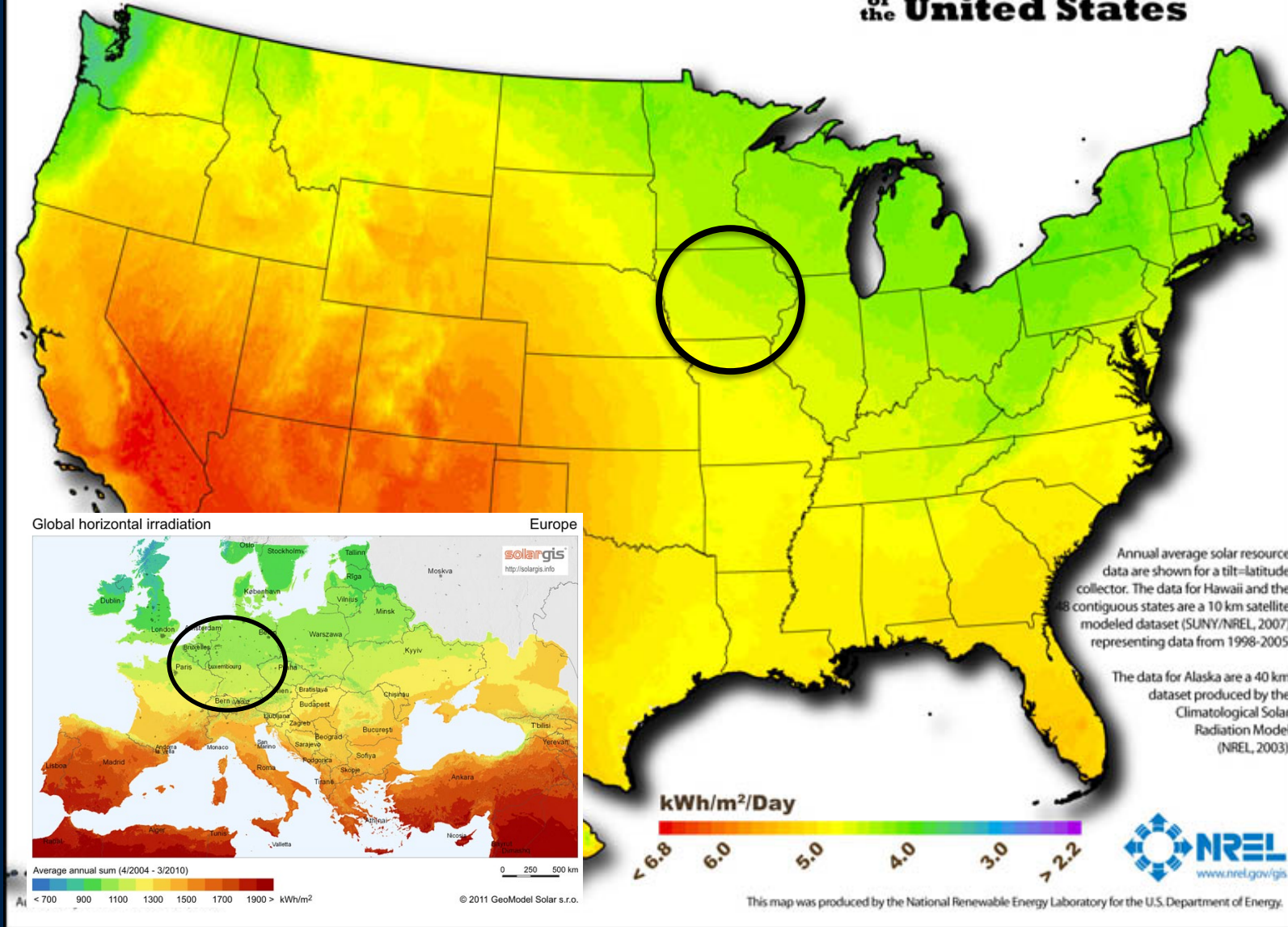


# Fun Solar Facts

- Enough Energy From The Sun Hits The Earth Every Hour To Power The Planet For An Entire Year
- Solar PV Uses **Free Fuel** (Sunlight)
- Solar PV Has **No Physical Moving Parts**; This Means Little - No Maintenance
- PV Systems Generate Power **Without Pollution, CLEAN ENERGY!**
- 370+ Watts Generated Per Module (Increasing By 7 Watts Per Quarter)
- Solar Modules Operate Best In 75 Degrees F Or Less

# Iowa's Solar Resource...Same as Germany

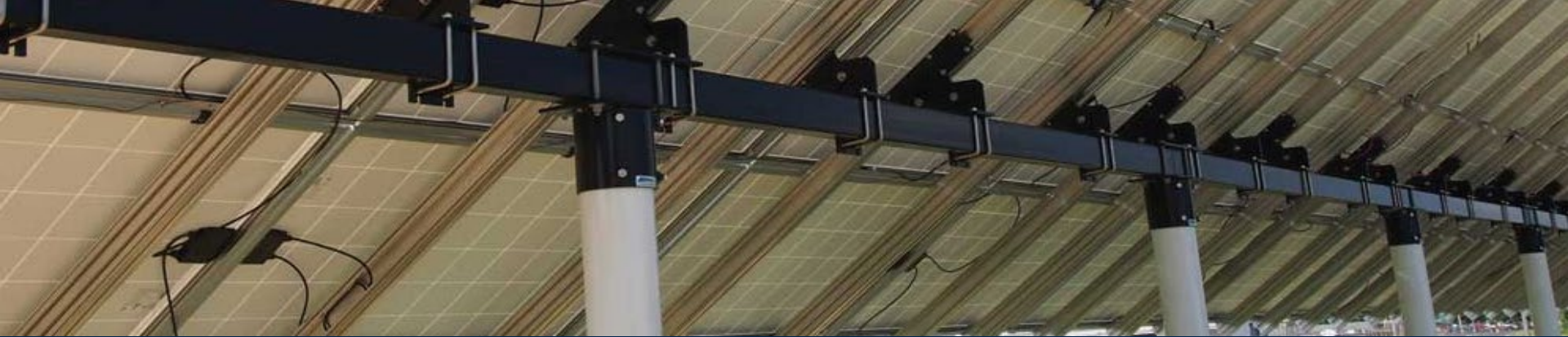
## Photovoltaic Solar Resource of the United States





# **System Components**

- **Modules**
- **Inverters**
- **Racking**
- **Balance of System**
- **Monitoring**



# Considerations Before Sizing

- Ground Mount or Roof Mount
- Type of Soil or Roof
- Roof Orientation, **South is Best!**
- Monthly Energy Consumption
- Shading Issues (i.e. Trees, HVAC units, Neighbor Buildings)
- Motivation/Goal For Installing Solar
- Payback Expectations



# Shading Considerations