

WRF Nowcast Forecast Data

WRF-Solar gridded forecast

Directory – /glade/p/ral/wsap/jaredlee/EPRI/Phase3/wrf/nowcast

NC File Conversion

Reformats the WRF-Solar NetCDF file

Crontab script – run_WrfNetCDF2StatcastNetCDF.py

Input directory – /glade/p/ral/wsap/jaredlee/EPRI/Phase3/wrf/nowcast

Output directory – wrf_fcst_4_statcast

HRRR Forecast Data

HRRR grib forecast data

Directory – /glade/scratch/jaredlee/EPRI/Phase3/wps/grib/hrrr/

Grib to NC Conversion

Converts the HRRR grid data to NetCDF

Crontab script – run_hrrr_grib2nc.py

Input directory – glade/scratch/jaredlee/EPRI/Phase3/wps/grib/hrrr/

Output directory – hrrr_nc

StatCast Forecast

Produce the StatCast forecast at NYS Mesonet site locations

Crontab script – run_ghi_fcst.py

Input directories – phase3/NYMesonet_real_time/15min_nc
wrf_fcst_4_statcast/

Output directory – ghi_fcst/netcdf

NWP Blended Forecast

Blends the WRF-Solar and HRRR forecasts

Crontab script – run_NWP_grid_blender.py

Input directories – /glade/p/ral/wsap/jaredlee/EPRI/Phase3/wrf
/glade/work/brummet/epri/data/hrrr_nc/

Output directory – nwp_blend

NWP Statcast Blended Forecast

Blends the StatCast and NWP forecast

Crontab script – run_NWP_Statcast_blender.py

Input directories –
ghi_fcst/netcdf
nwp_blend/

Output directory – nwp_statcast_blend(_hourly)

Percent Power Forecast

Percent Power forecasts are created for specific sites (both Distributed & Utility)

Crontab script – run_power_fcst.py

Input directory – nwp_statcast_blend(_hourly)

Output directory – pct_power_fcst/netcdf

Total Power Forecast (Utility only)

Percent power forecasts are multiplied by farm capacity to get total power forecast

Crontab script – run_pct_to_total_power.py

Input directory – pct_power_fcst/netcdf

Output directory – total_power_fcst/

Regional ZIP Power Forecast

Percent power forecasts are rolled up into regional ZIP codes (Distributed only)

Crontab script – run_pct_power_rollup.py

Input directory – pct_power_fcst/netcdf

Output directory – total_power_fcst/

Upload to SFTP site

Forecast files are uploaded to the SFTP site

Crontab Script – upload_blended_fcst_to_sftp.py

Input directory – nwp_statcast_blend/
pct_power_fcst/netcdf
total_power_fcst/

Output SFTP – /Intake/DS000086-NCAR_NYSERDA_GHI_Forecast/forecasts