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(54) Title: SYSTEM AND METHOD FOR OPTIMIZING COMPOSITION OF ENSEMBLE MEMBER OUTPUTS TO GENERATE A SERIES OF SHORT PERIOD LOCAL WIND SPEED FORECASTS

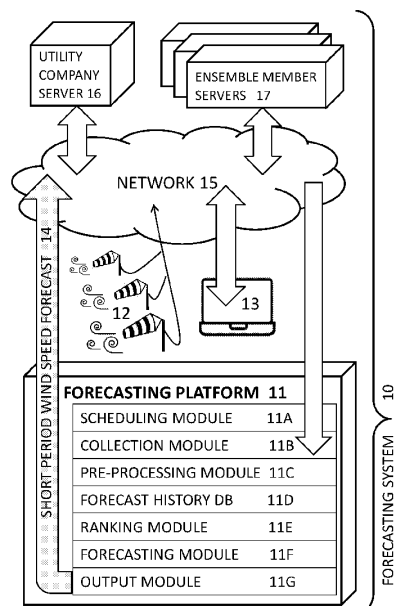


FIG. 1

(57) Abstract: A system and method for generating a series of short period wind speed (SPWS) forecasts (14) for a local area using a periodically updated optimal composition of ensemble member outputs from well-known ensemble members. Recent accuracy of the forecasted wind speed generated from each ensemble member of a prior SPWS forecast (61A') is evaluated by a comparison of the wind speed forecasts generated by the ensemble member with the actual observed wind speeds for the same time window. This comparison is used to calculate an accuracy error (30N) for each ensemble member for the recent time frame. The accuracy error (30N) of each ensemble member is then used to determine the updated optimal composition of ensemble member outputs employed to generate the SPWS forecast (14).

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