

Sr. No.	Model	Parameters	Training		Testing			
			RMSE	R2	RMSE	R2	MAE	Accuracy
1	Random Forest	['RH_out','lights','RH_1','T3','RH_3','RH_8','Press_m m_hg','T2','RH_2','T4','RH_4','T5','RH_5','RH_6','RH_7','T8','T9','RH_9','Windspeed','Tdewpoint','T7','T5','T1','T_out']	25.44	0.94	75.35	0.50	34.88	0.67
2	LSTM	['Appliances','lights','T1','RH_1','T2','RH_2','T3','RH_3','T4','RH_4','T5','RH_5','T6','RH_6','T7','RH_7','T8','RH_8','RH_9','T_out','Press_mm_hg','RH_out','Windspeed','Tdewpoint']	100.43	0.65	65.30	0.89	49.56	0.91
3	GBM	['lights', 'T1', 'RH_1', 'T2', 'RH_2', 'T3', 'RH_3', 'T4', 'RH_4', 'T5', 'RH_5', 'T6', 'RH_6', 'T7', 'RH_7', 'T8', 'RH_8', 'T9', 'RH_9', 'T_out', 'Press_mm_hg', 'RH_out', 'Windspeed', 'Visibility', 'Tdewpoint', 'rv1', 'rv2', 'month_2', 'month_3', 'month_4', 'day_1', 'day_2', 'day_4', 'day_5', 'day_6', 'day_7', 'day_8', 'day_11', 'day_12', 'day_14', 'day_15', 'day_16', 'day_19', 'day_20', 'day_21', 'day_22', 'day_23', 'day_25', 'day_26', 'day_27', 'day_30', 'week_2', 'week_7', 'week_8', 'week_11', 'week_12', 'week_13', 'week_14', 'week_15', 'week_17', 'hour_6', 'hour_7', 'hour_8', 'hour_9', 'hour_10', 'hour_11', 'hour_12', 'hour_13', 'hour_14', 'hour_15', 'hour_16', 'hour_17', 'hour_18', 'hour_19', 'hour_20', 'hour_21', 'hour_22', 'min_0', 'min_10', 'min_20', 'min_30', 'min_40', 'min_50']	17.473	0.97	73.654	0.5526	34.58 Wh	0.6706