v offset  $R^{2}$  (%) 0.497 0.0 0.006 1.0 0.861 0.05 0.002 1.0 0.135 0.0 0.023 1.0 0.669 0.0 0.0 1.0 1.0 0.006 0.0 1.0 0.002 0.004 0.055 1.0 0.023 0.0 0.033 1.0 0.0 0.017 0.112 0.007 0.0 1.0 0.112 0.0 0.044 1.0 0.0 0.05 0.0 1.0 0.055 0.0 0.0 1.0 0.033 0.0 0.0 0.017 0.497 0.044 0.007 0.861 0.0 0.004 0.0 0.669 1.0 1.0 1.0 0.135 1.0 0.0 Forecasting time 2 s Forecasting time 3 s Forecasting time 5 s Forecasting time 4 s 0.0 0.0 0.0 1.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 1.0 - UniTS 0.0 0.786 1.0 0.861 1.0 0.0 1.0 0.0 0.0 0.0 0.0 LSTM Third 0.0 1.0 0.786 0.0 0.0 1.0 0.861 0.0 0.0 1.0 0.0 **GRU Reference** 0.0 1.0 0.0 0.0 0.0 1.0 0.0 0.0 1.0 0.0 0.0 0.0 GRU Att 2

Forecasting time 10 s Forecasting time 20 s Forecasting time 30 s