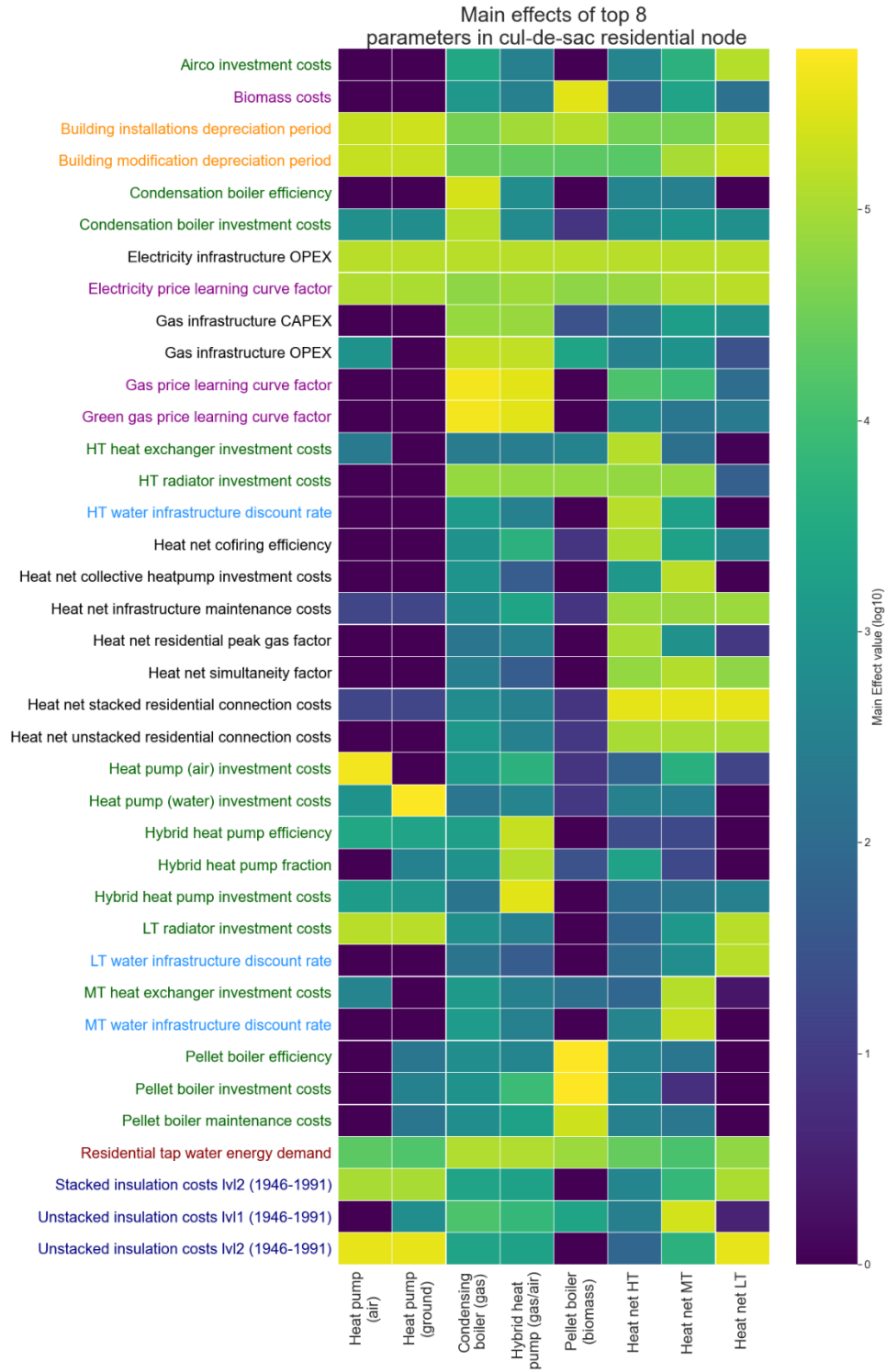


Heat maps of Factorial analysis, top 8 parameters of each option

Cul-de-sac

Residential

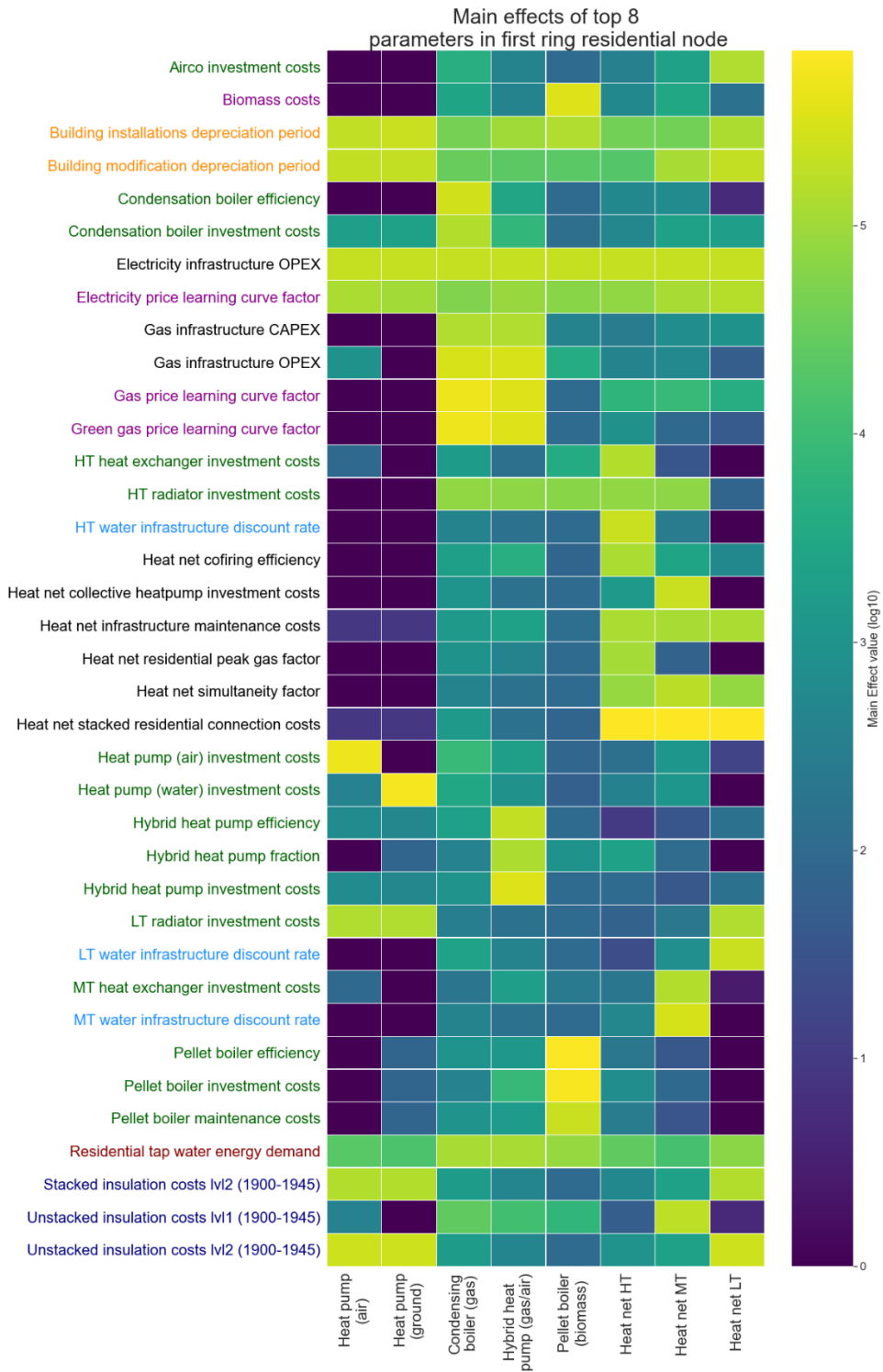


Utility



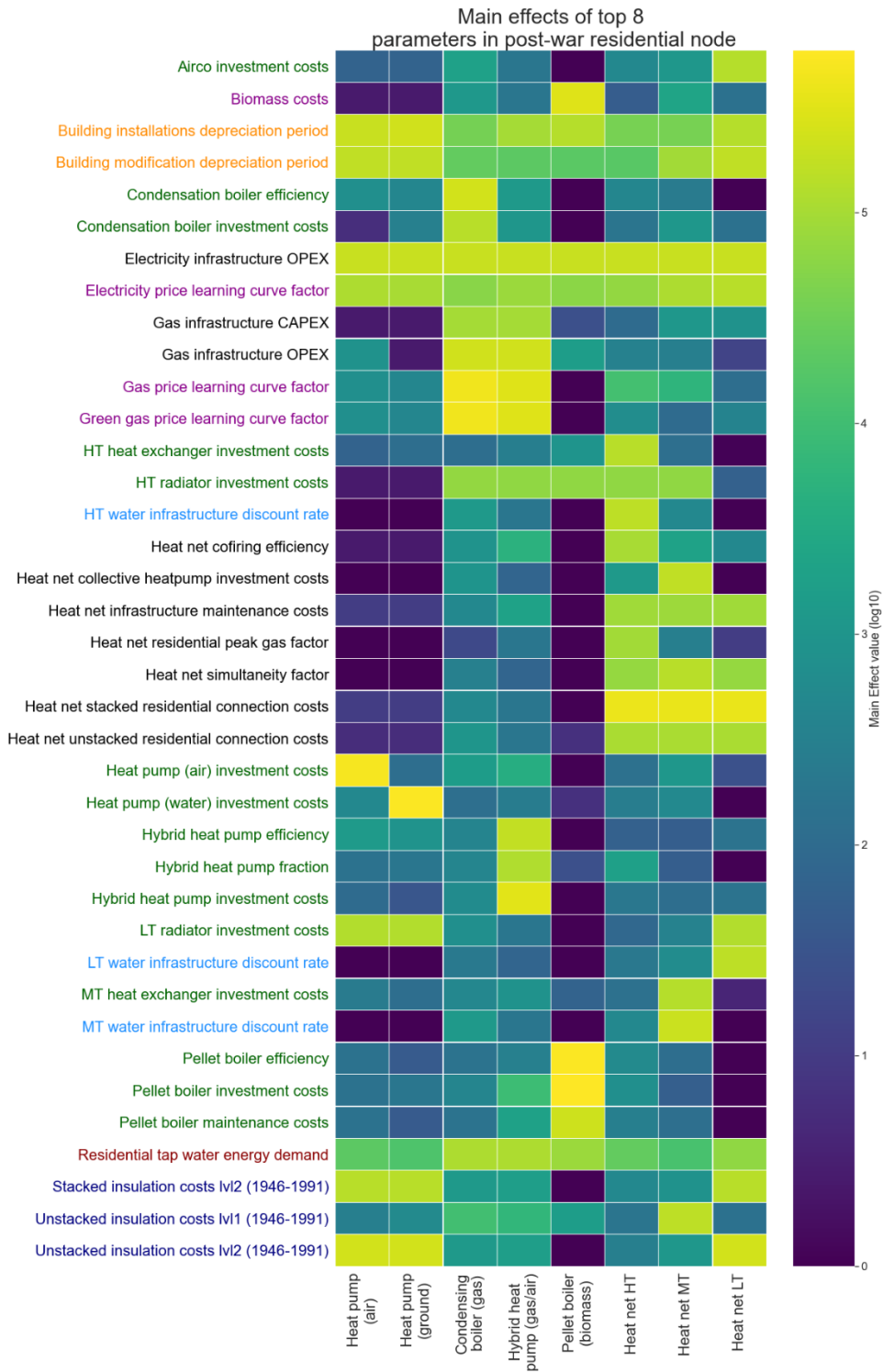
First ring

Residential



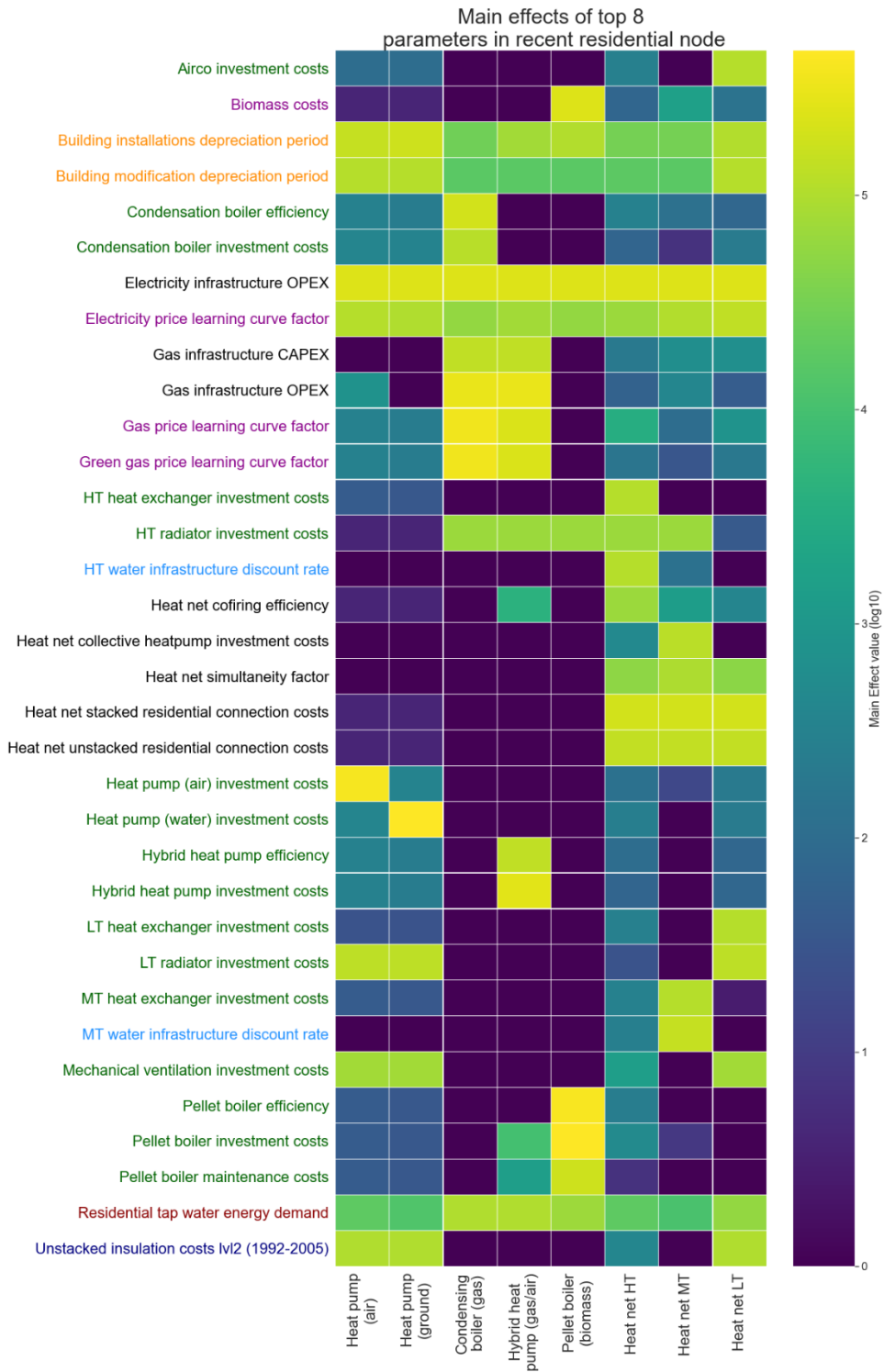
Post-war

Residential

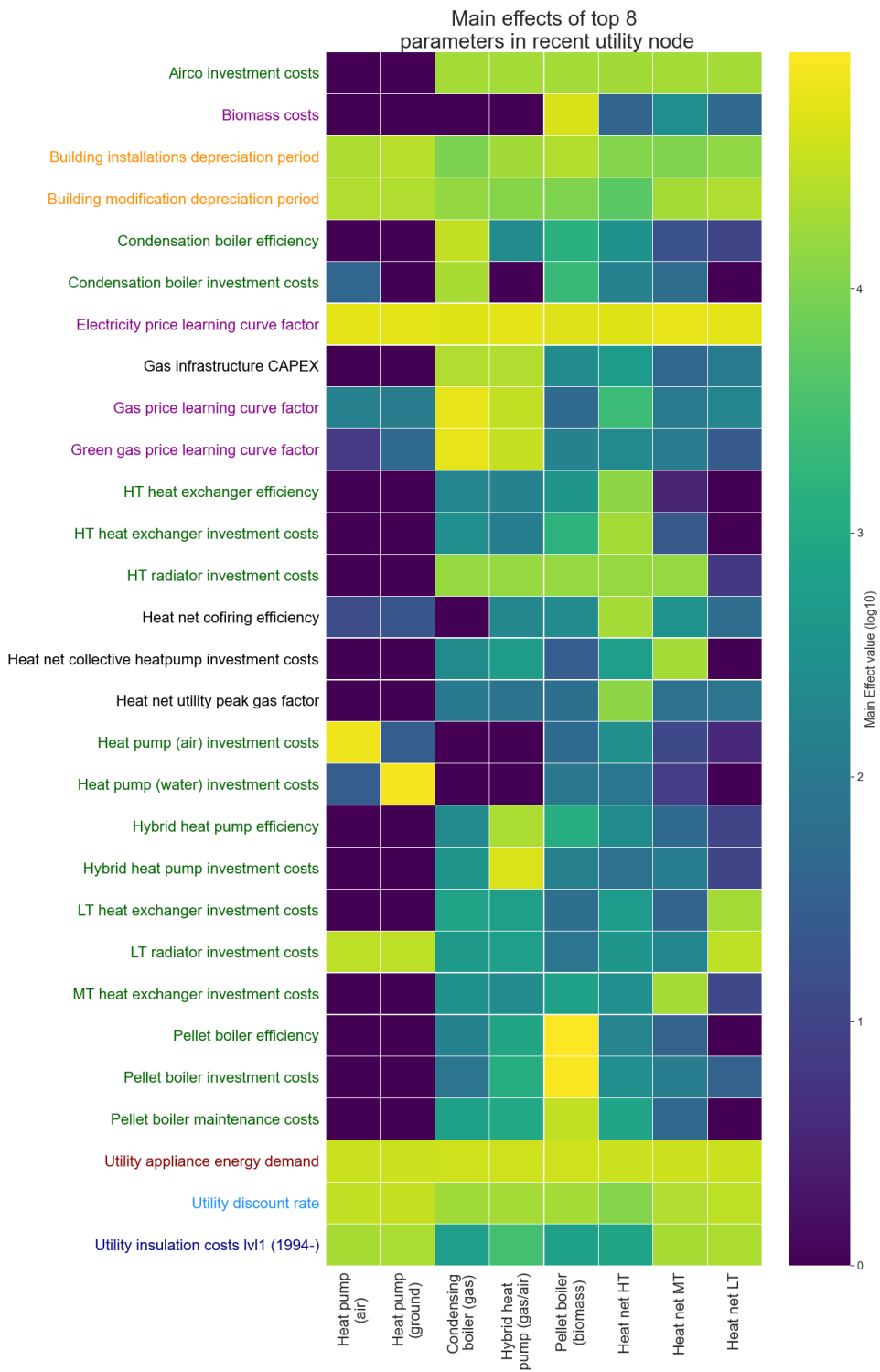


Recent

Residential



Utility



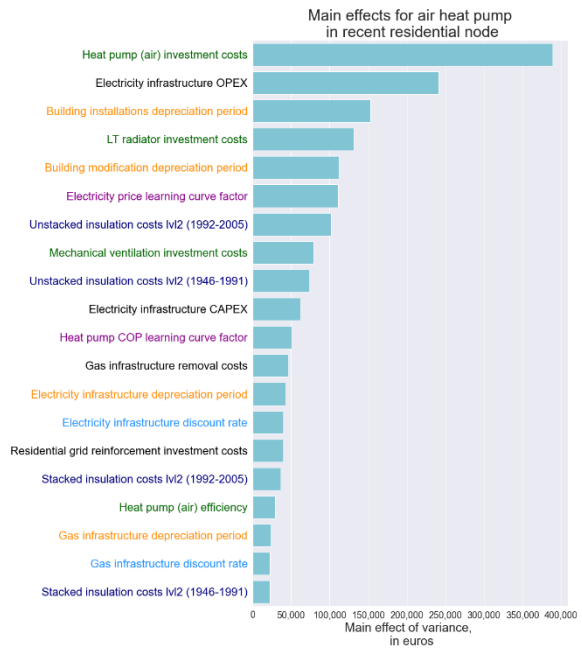
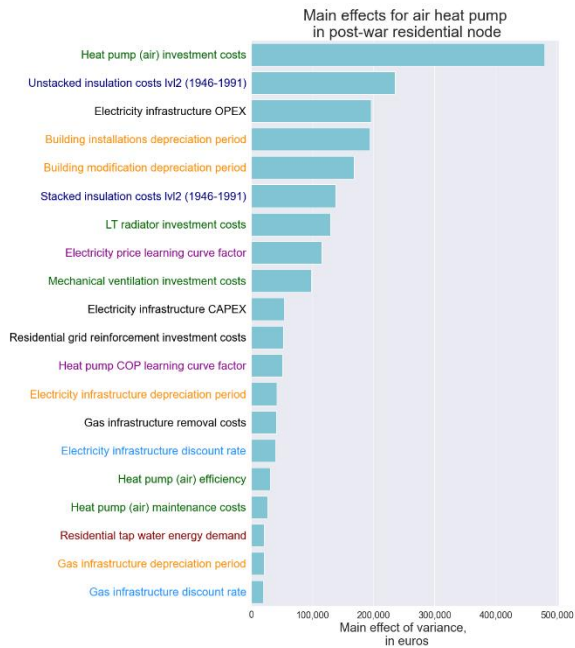
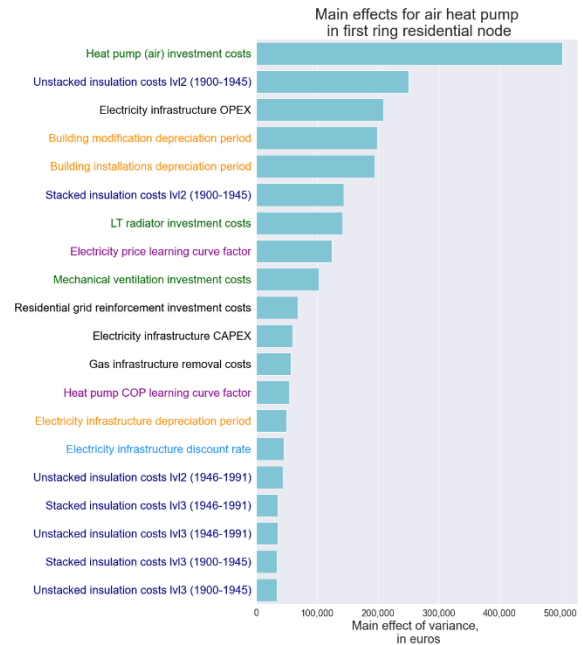
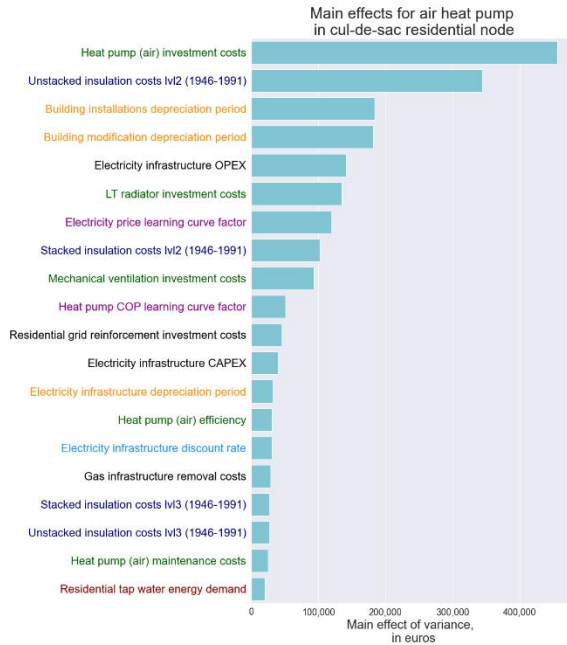
Rural

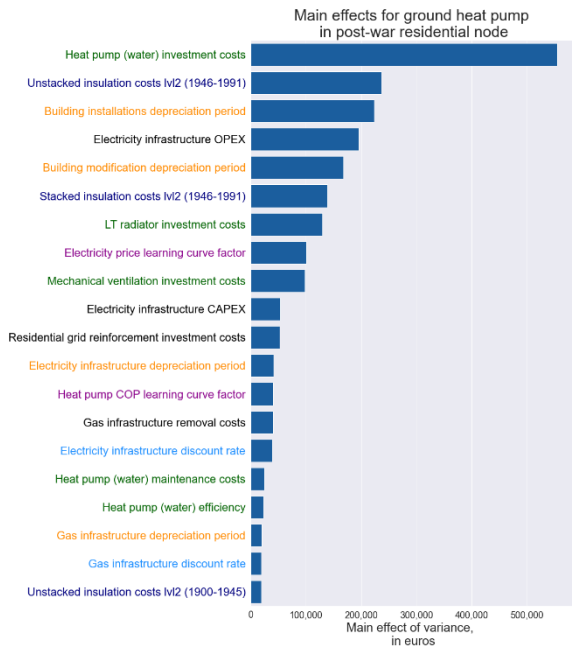
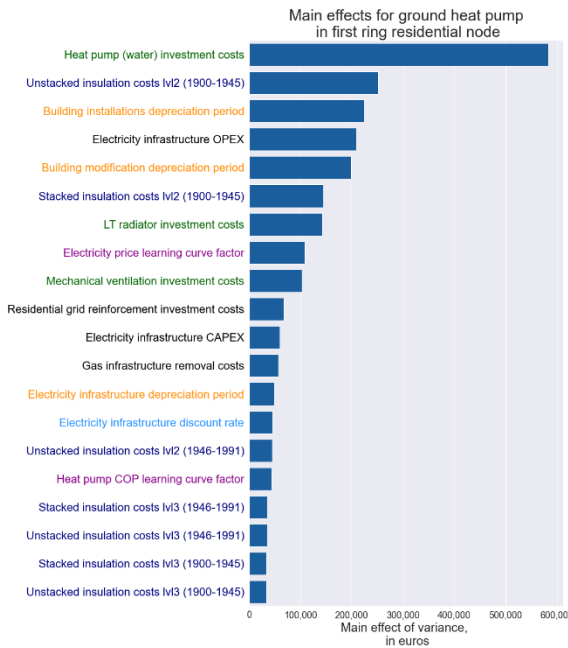
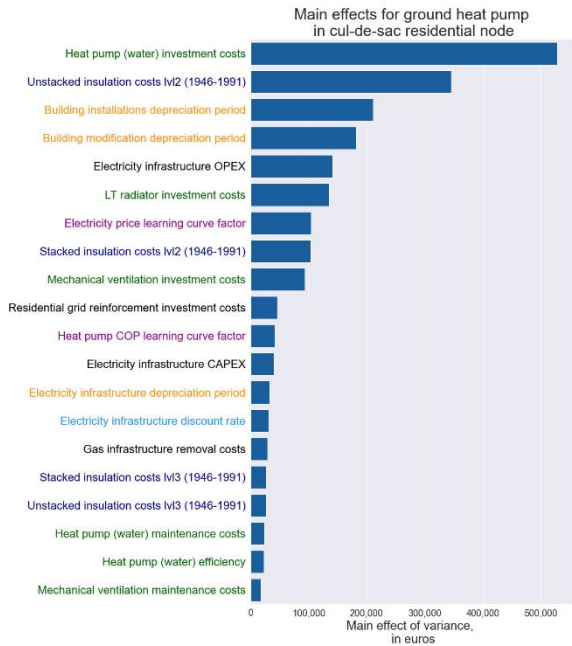
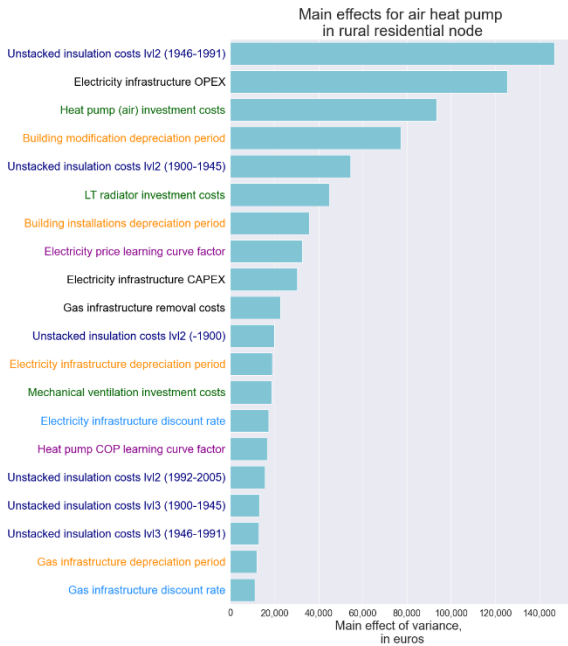
Residential

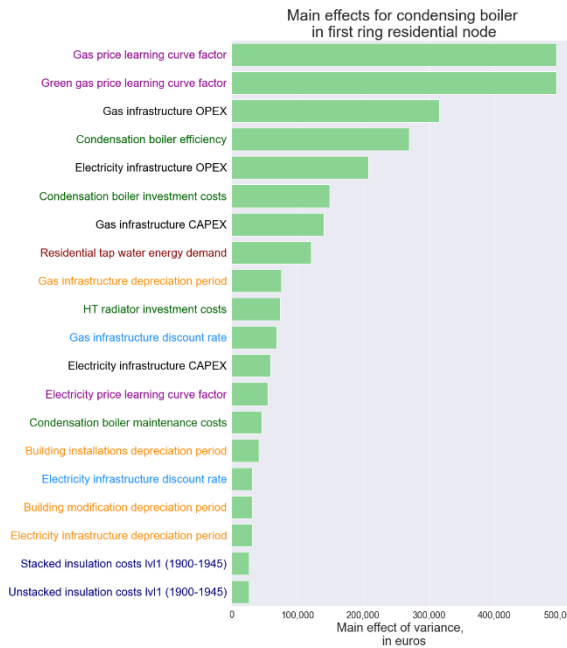
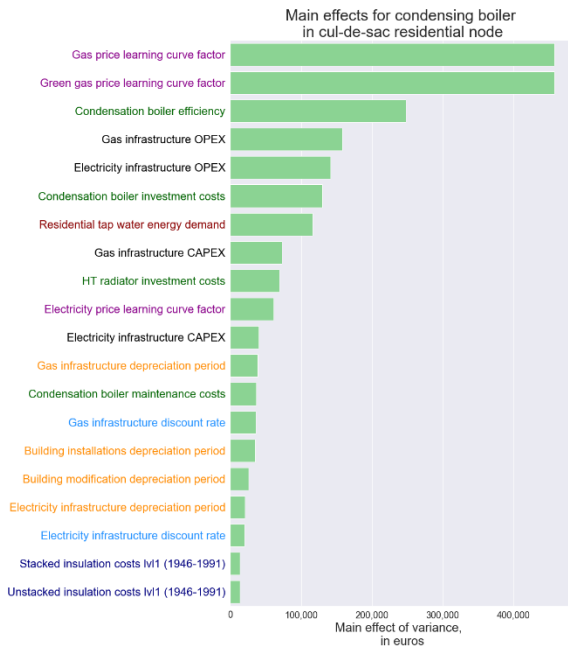
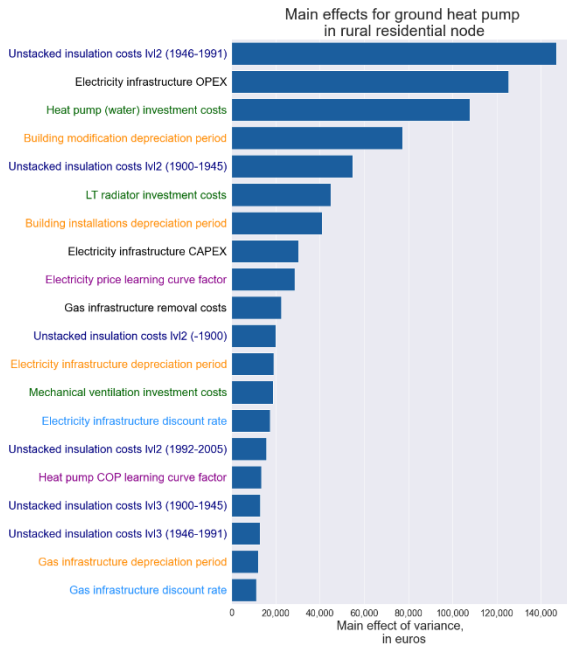
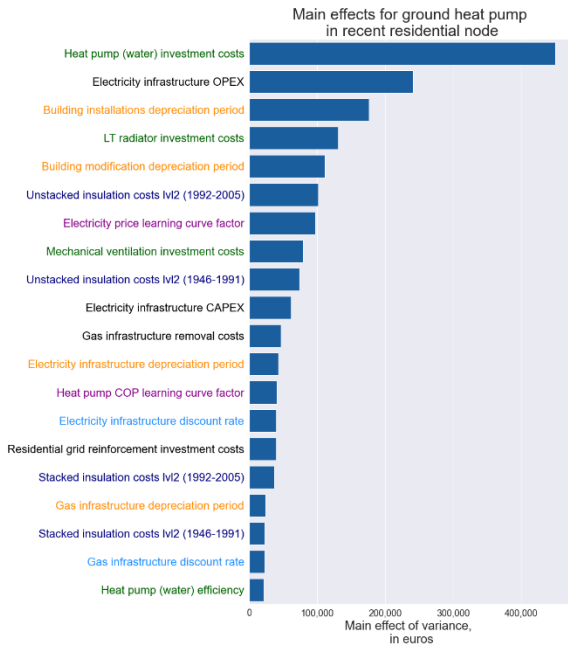


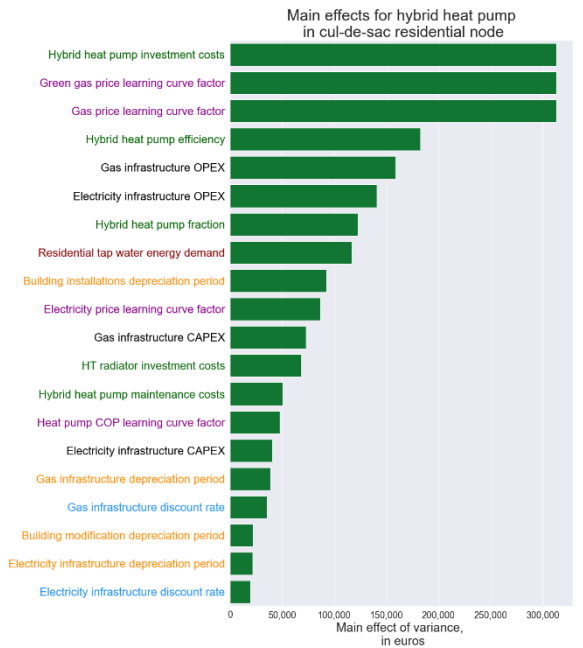
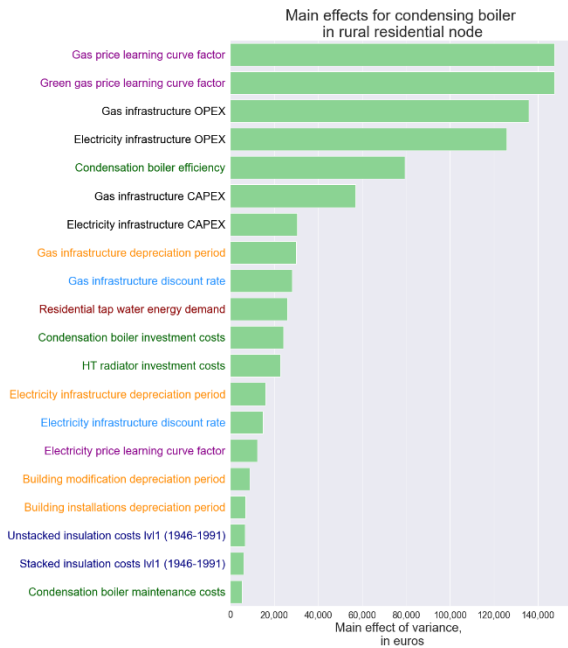
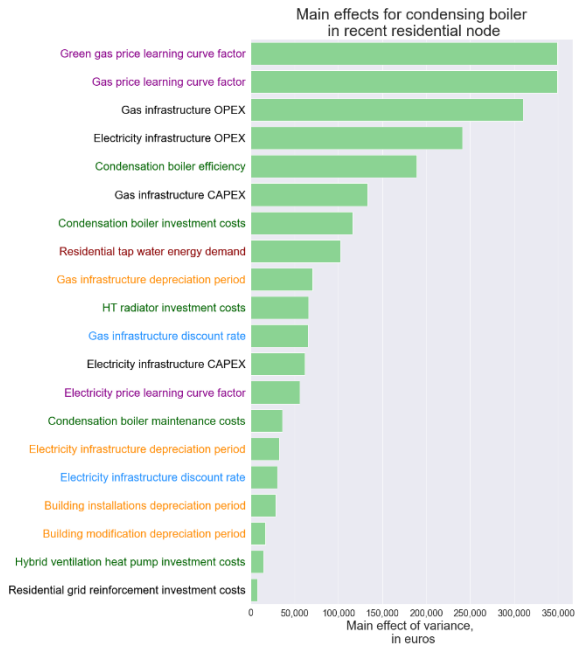
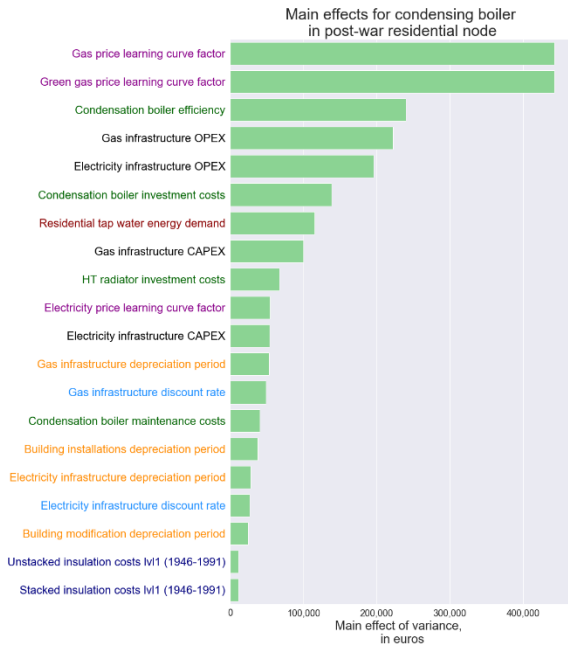
Barplots of Factorial analysis

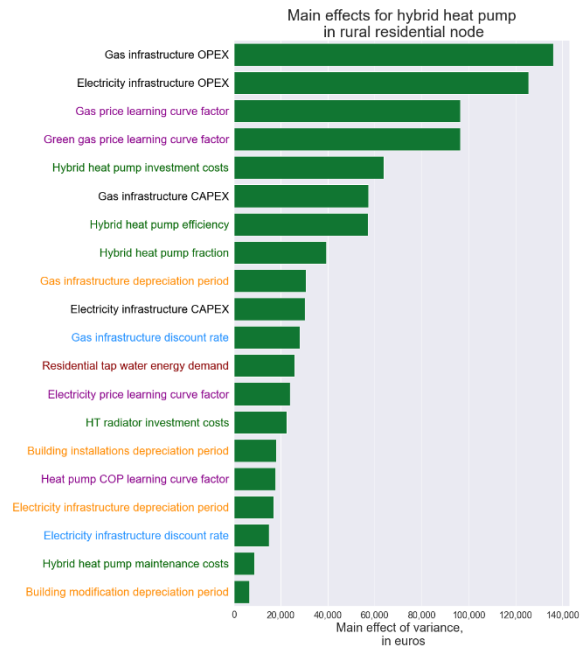
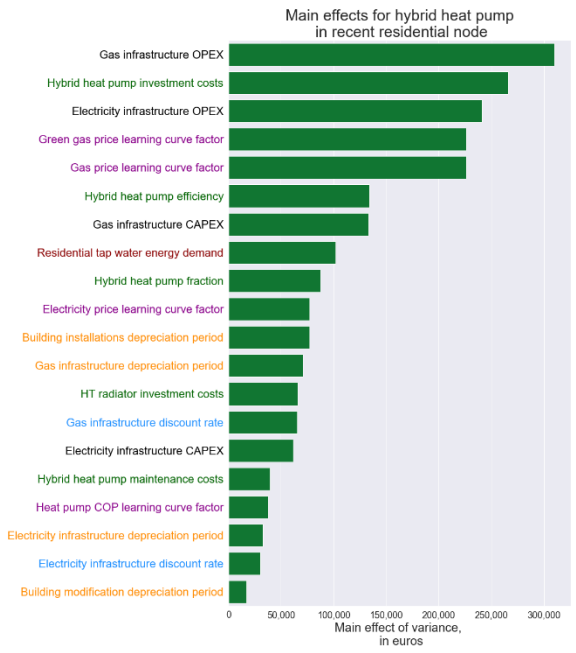
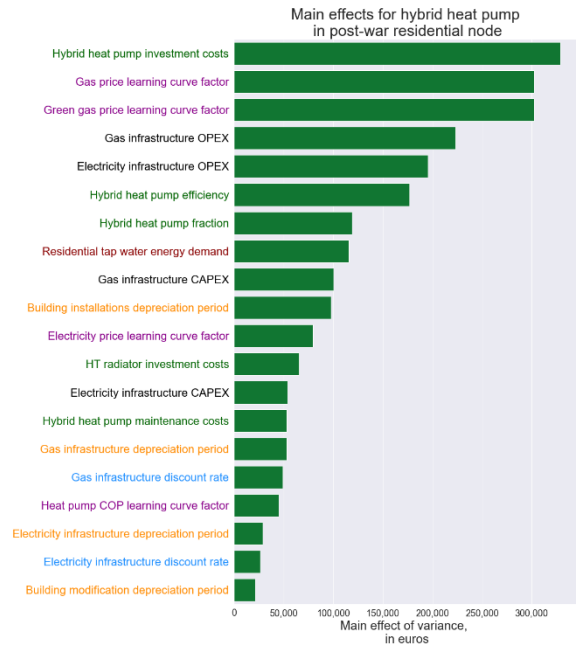
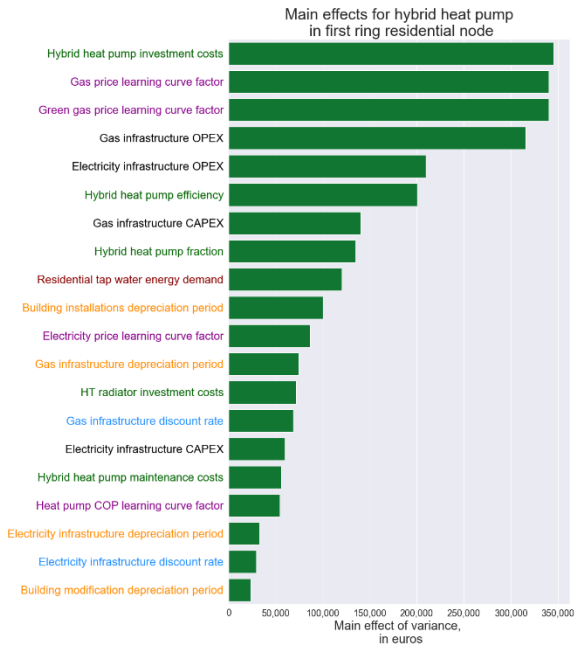
Factorial residential

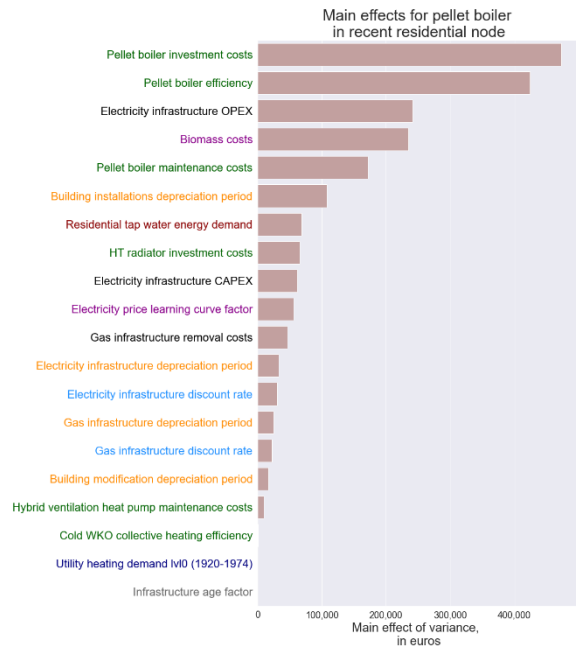
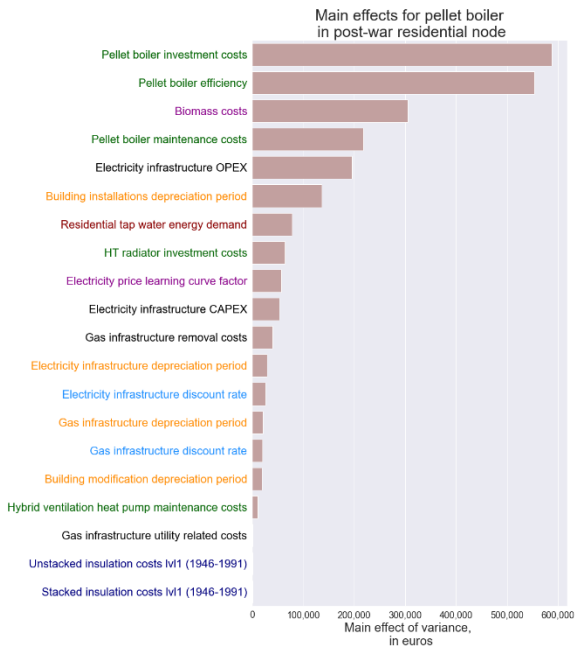
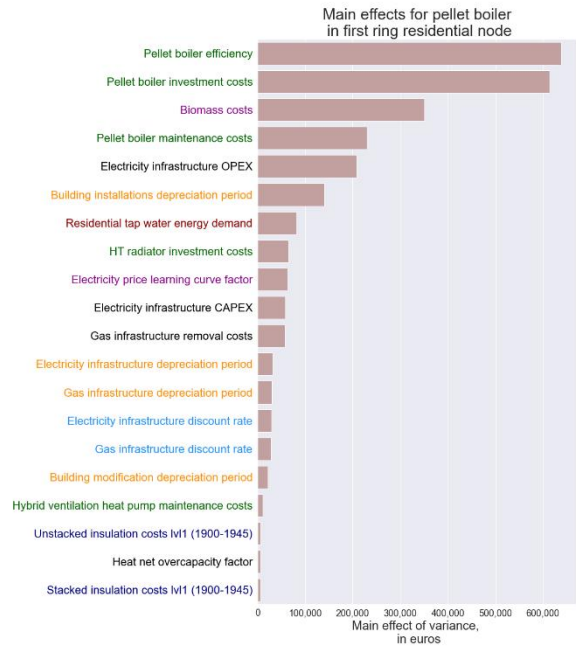
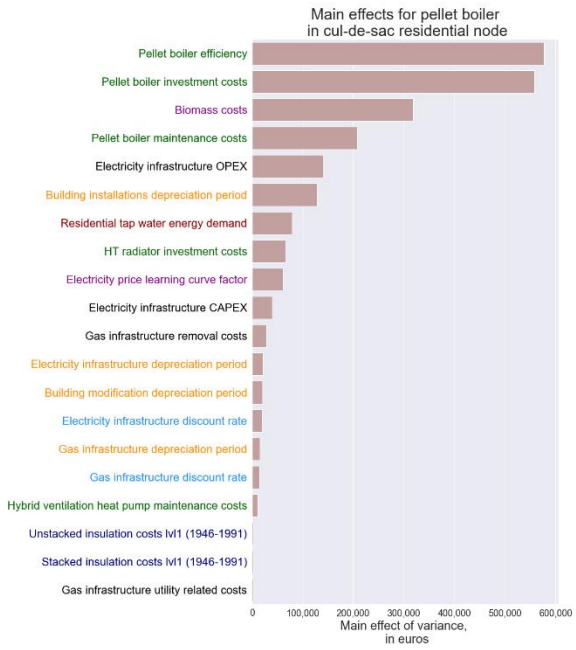


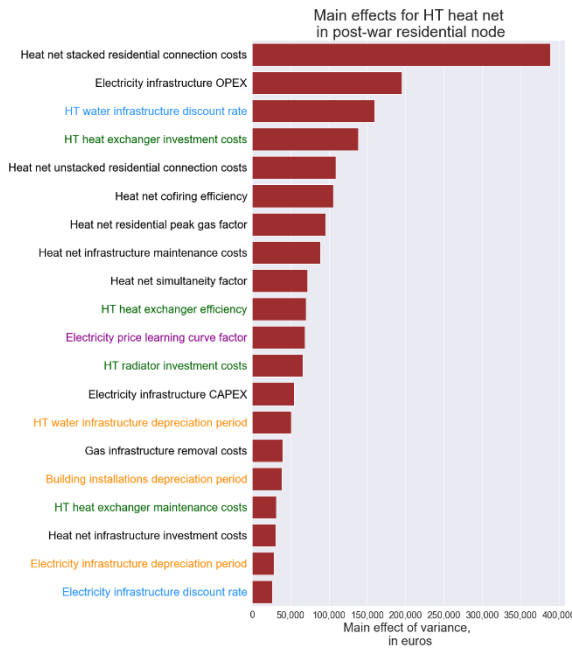
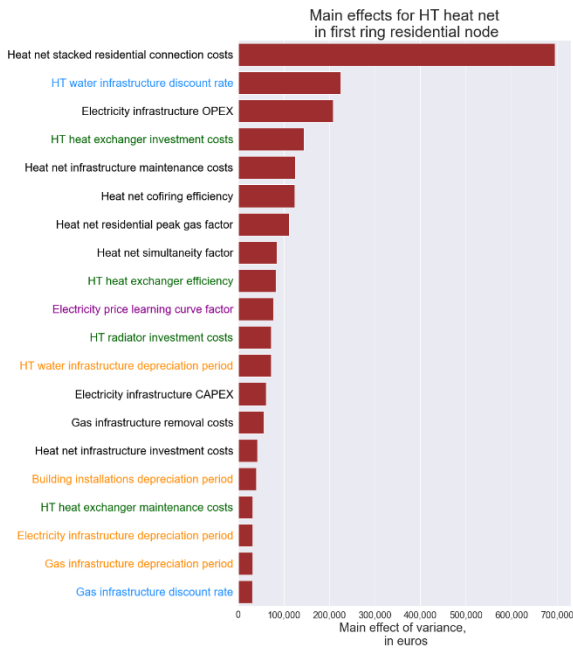
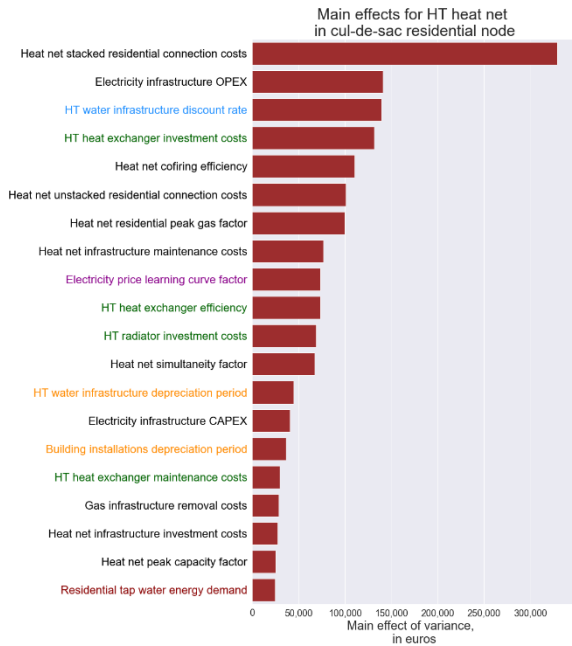
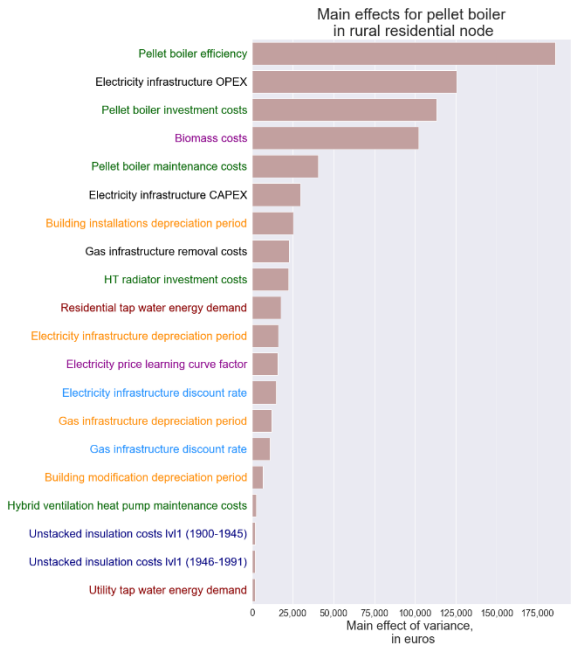


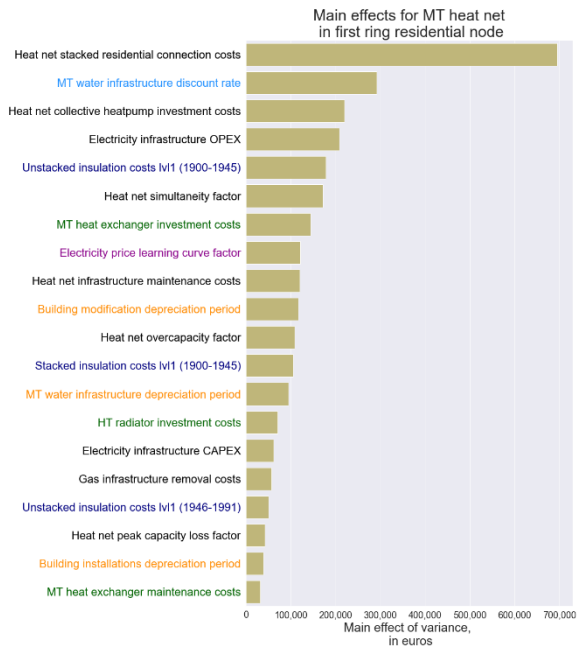
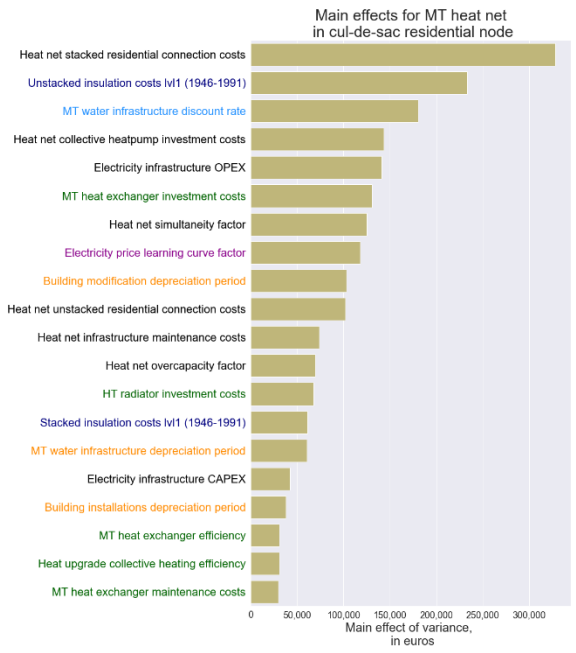
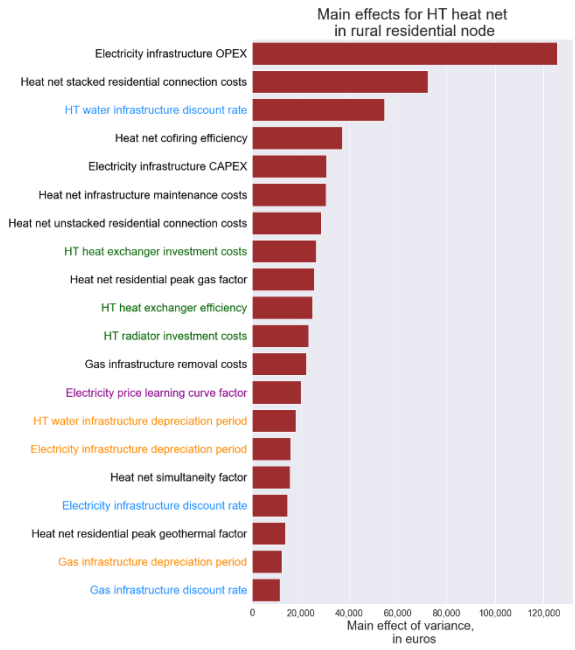
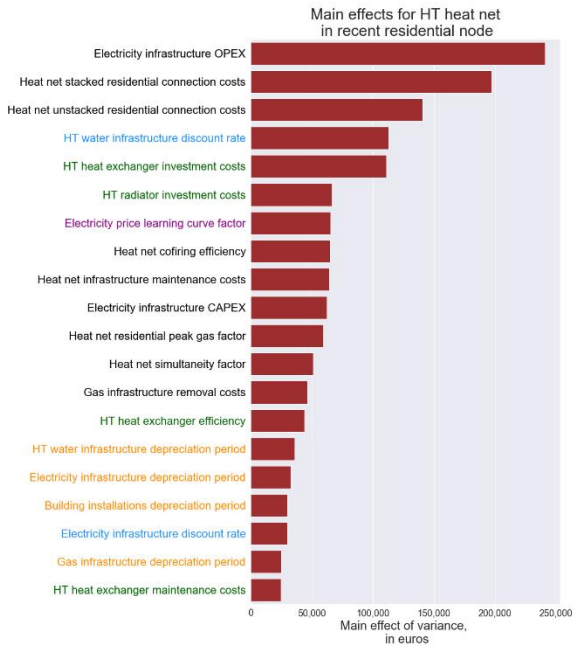


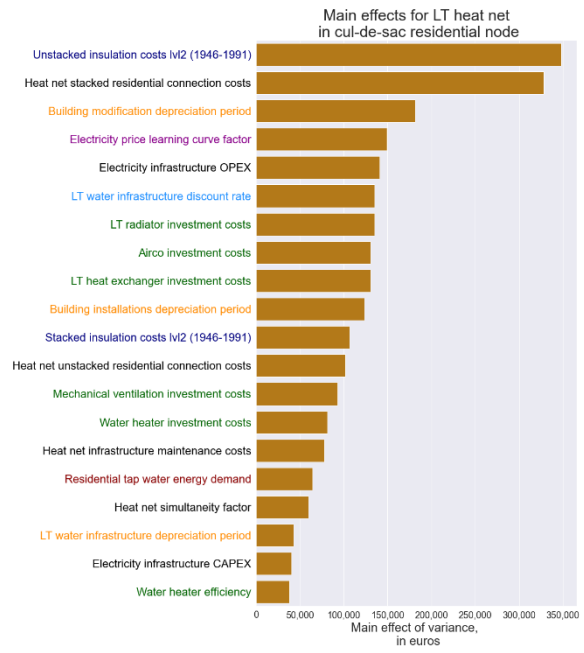
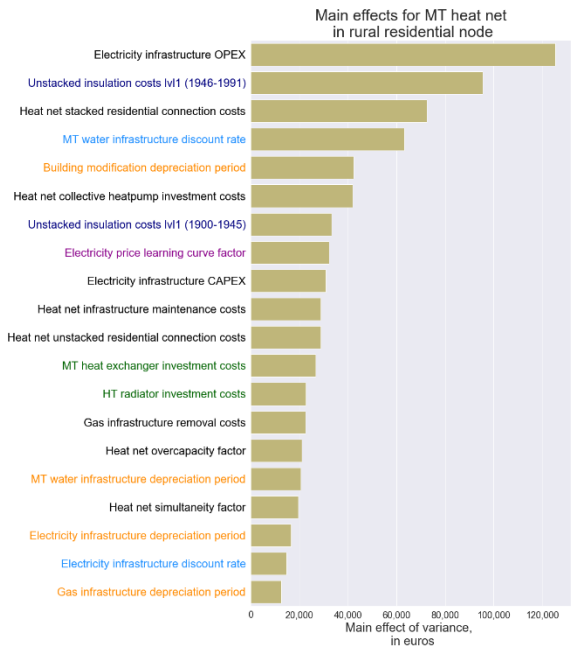
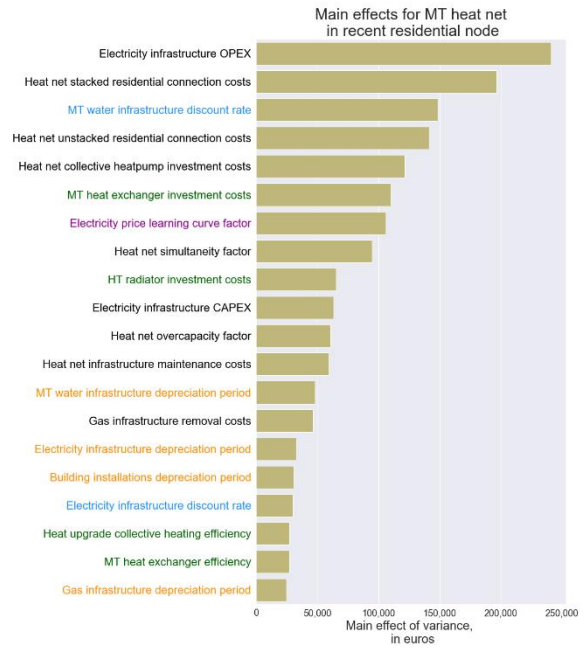
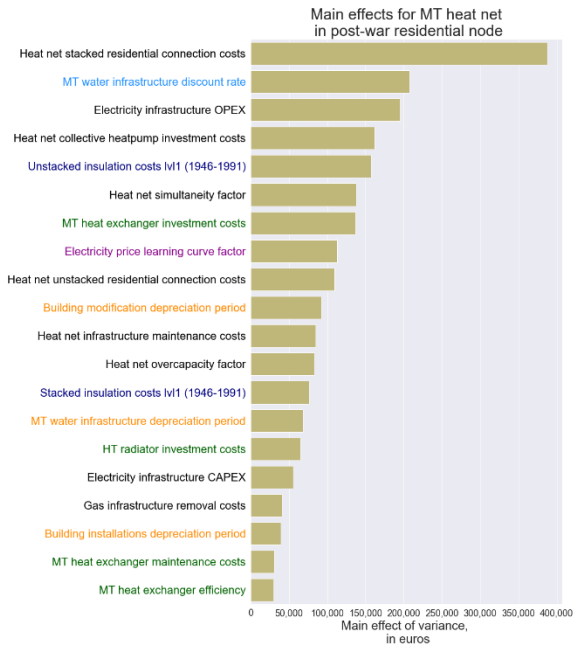


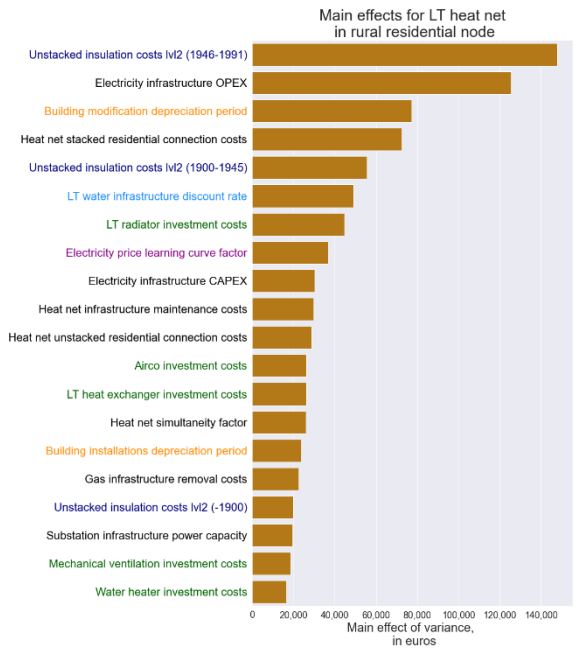
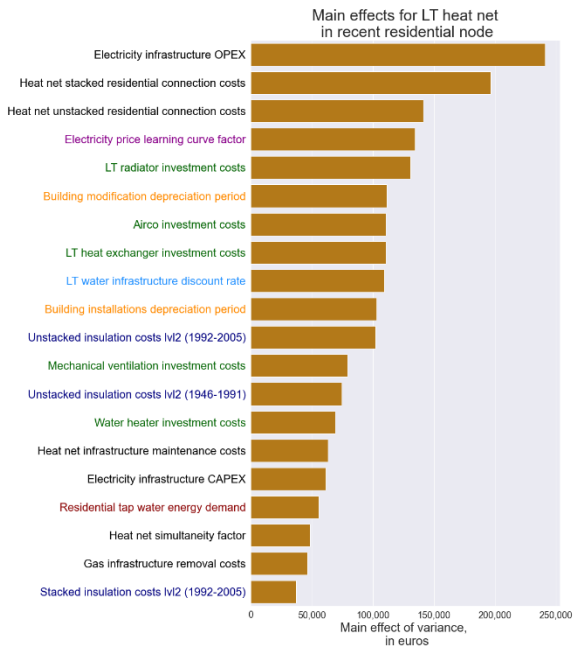
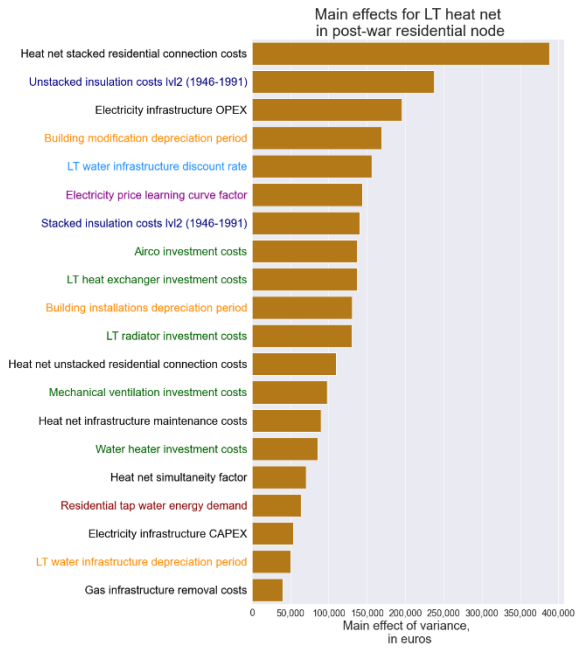
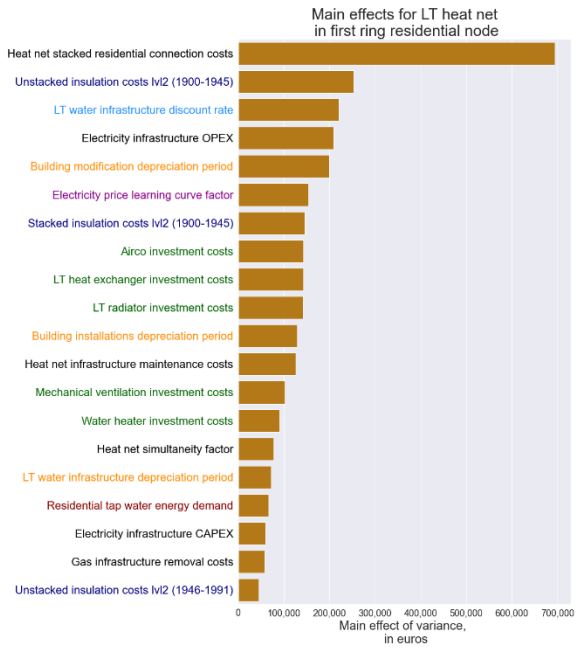




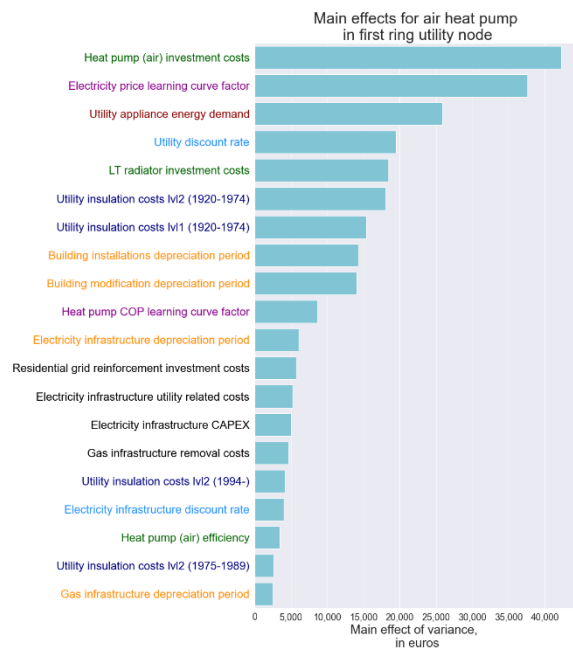
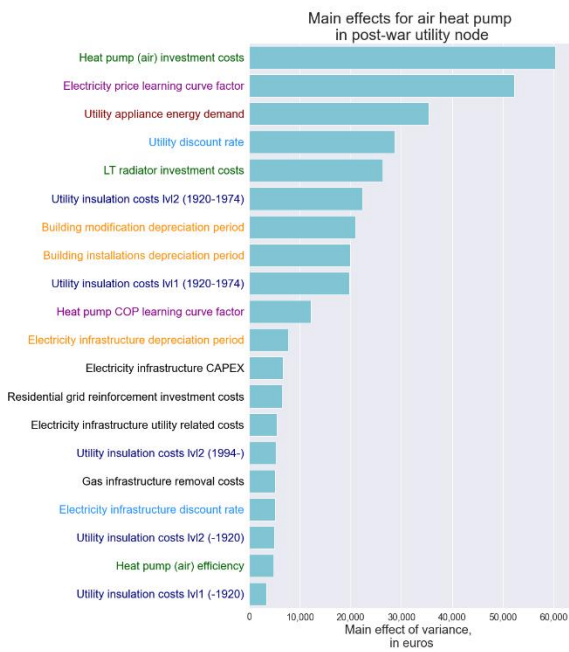
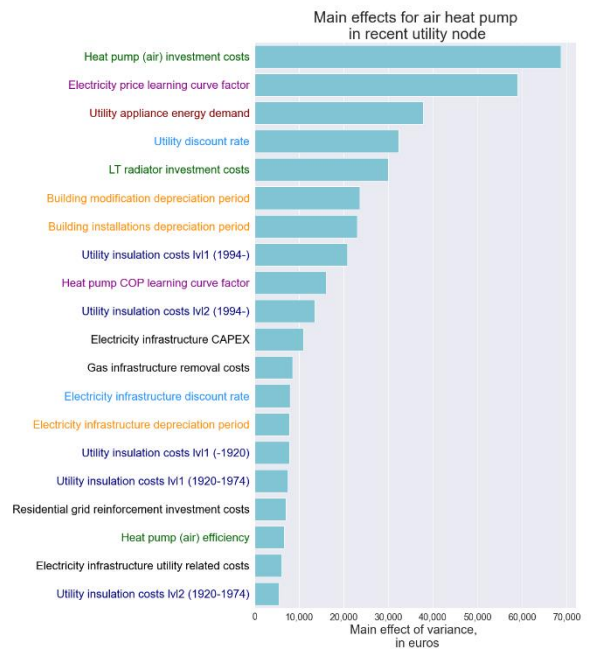
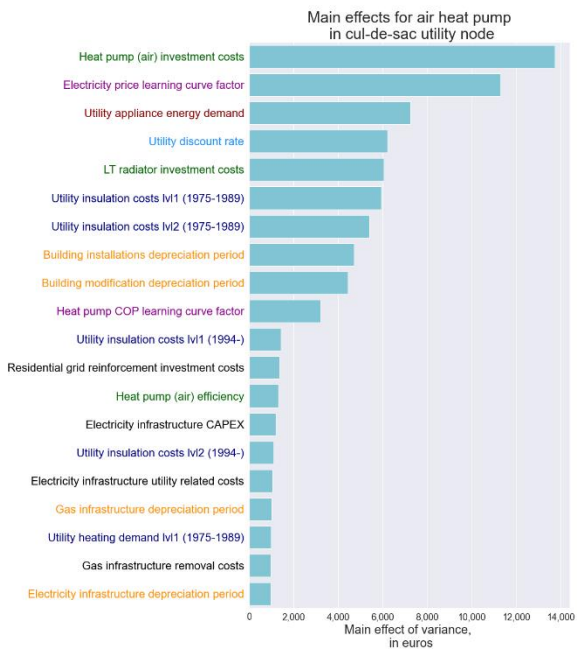


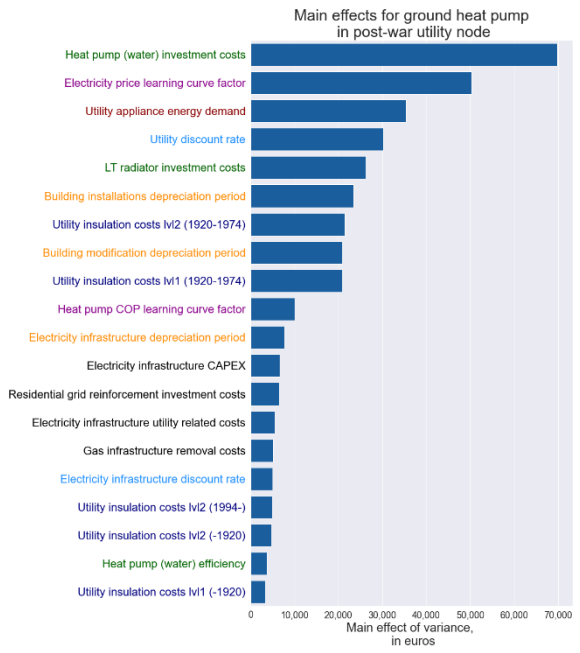
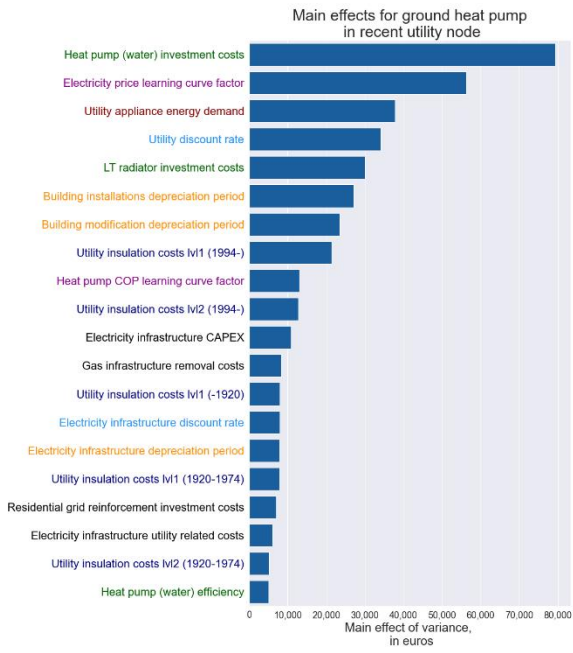
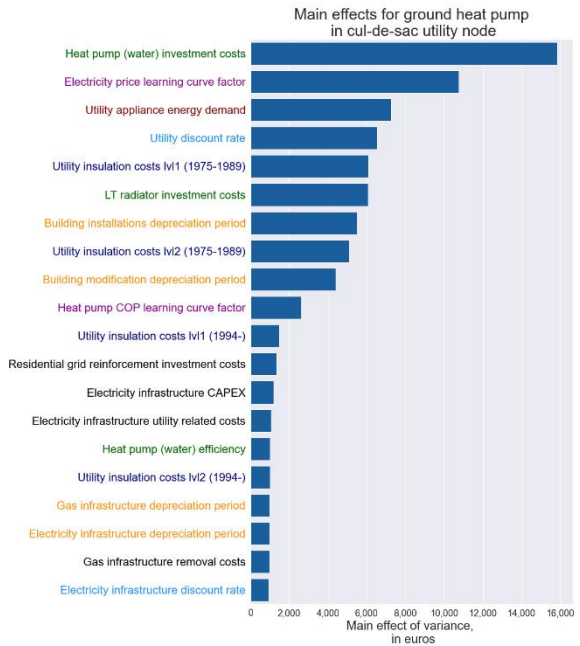
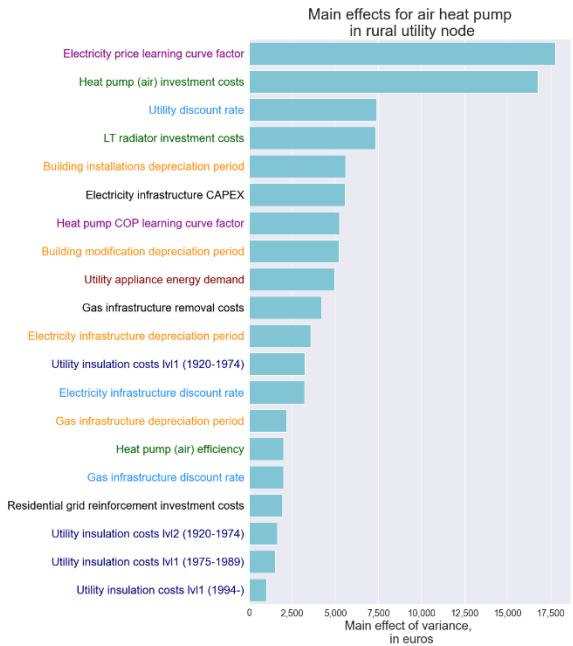


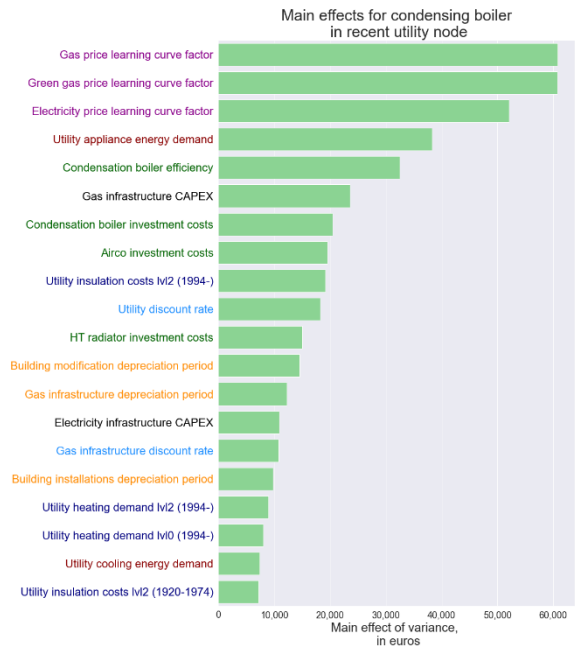
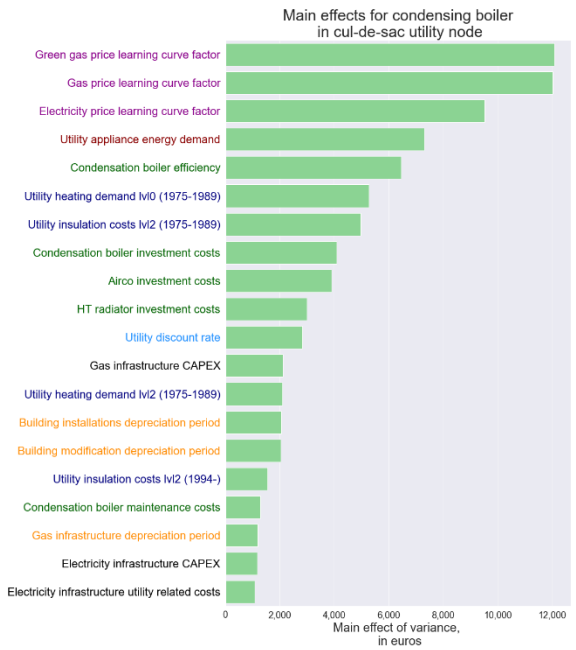
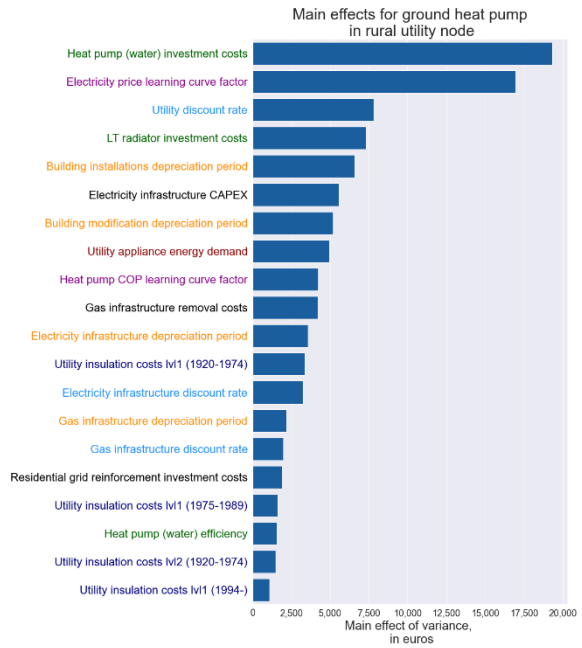
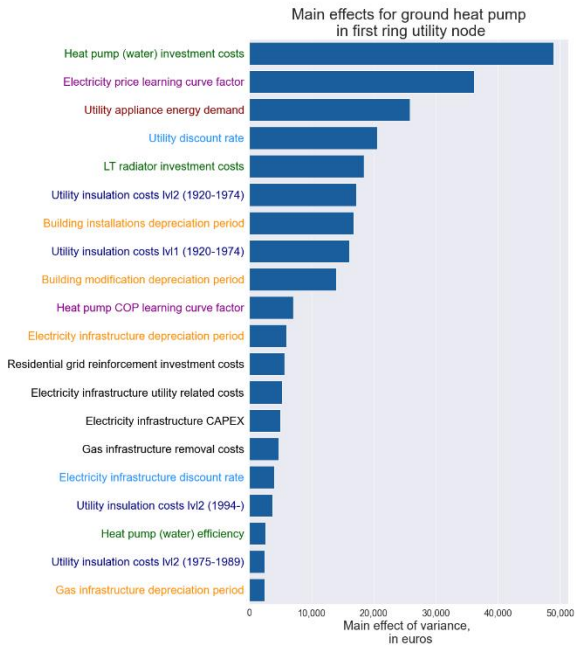


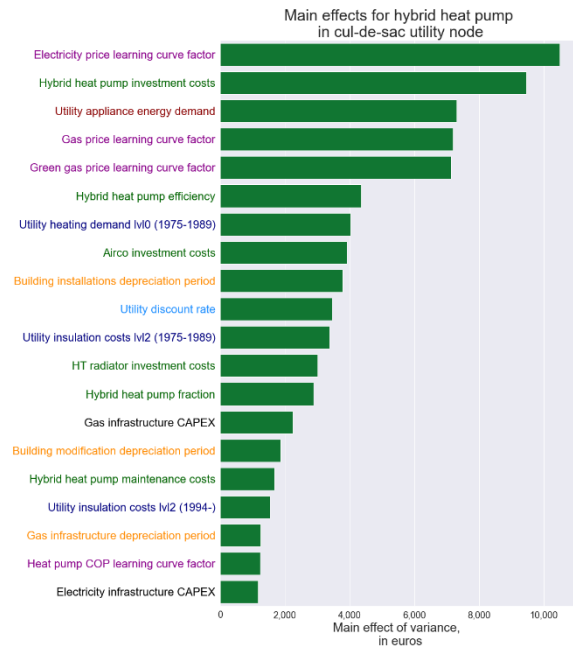
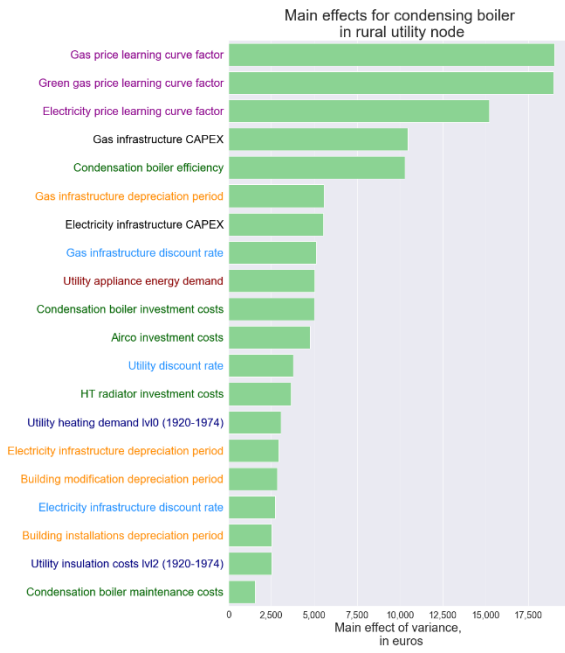
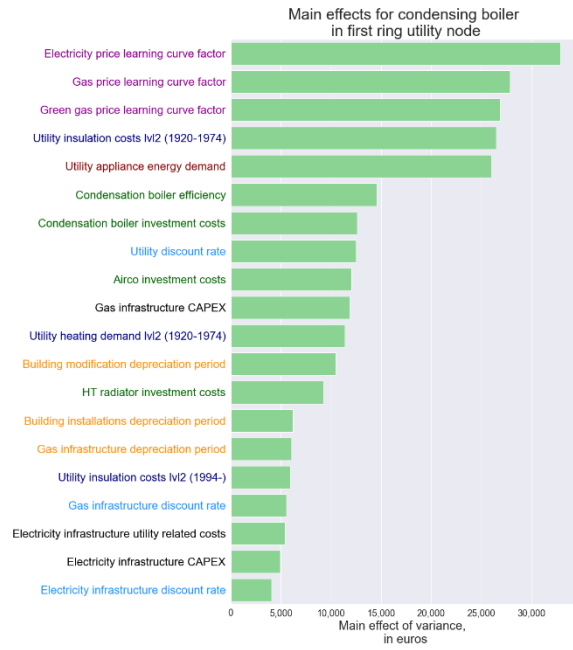
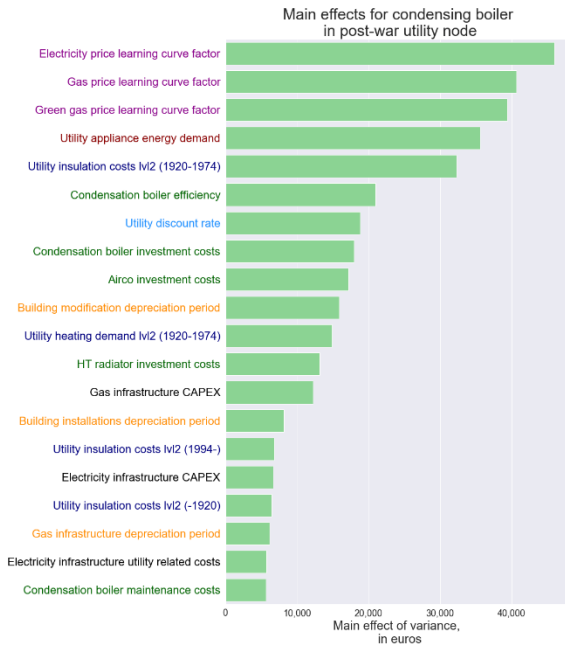


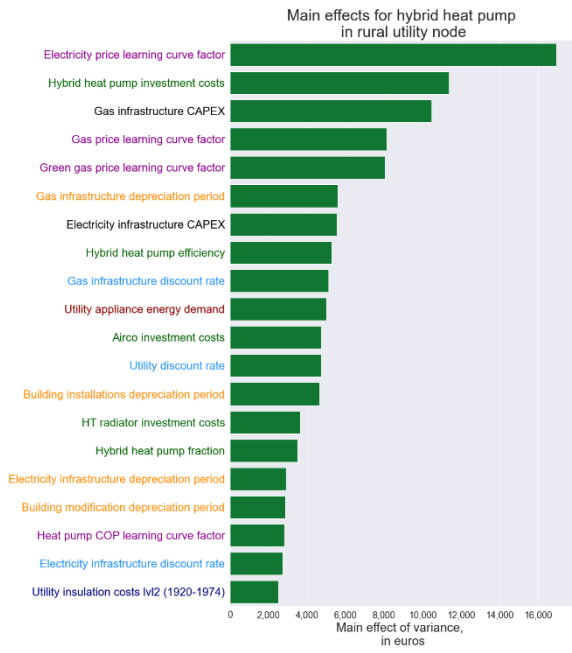
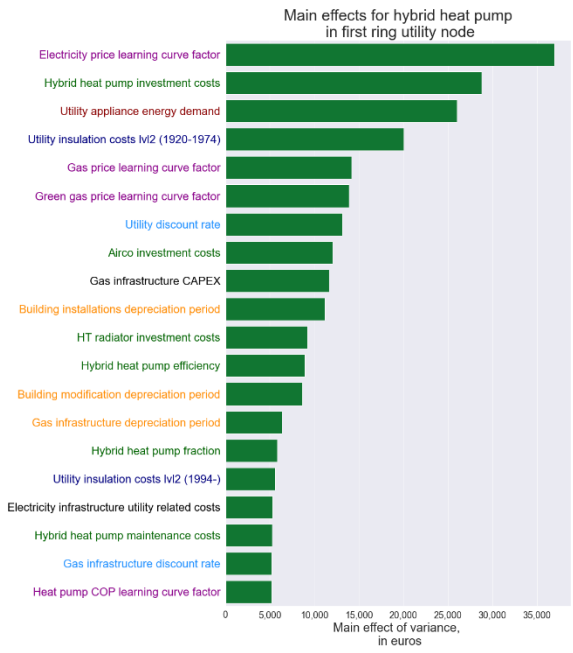
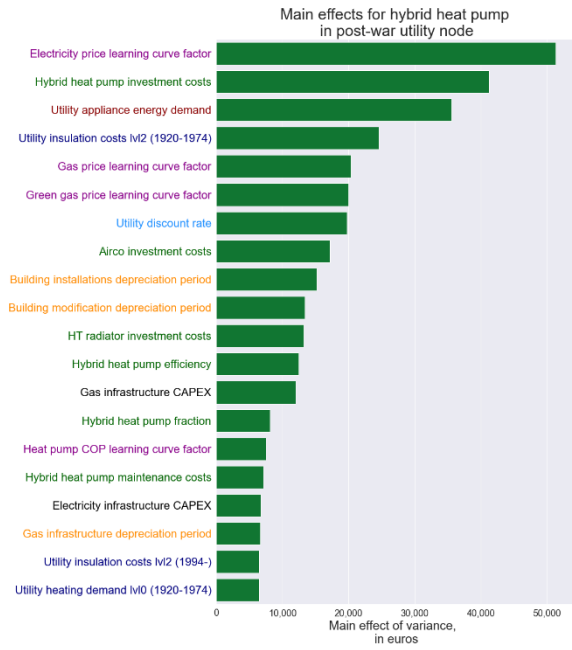
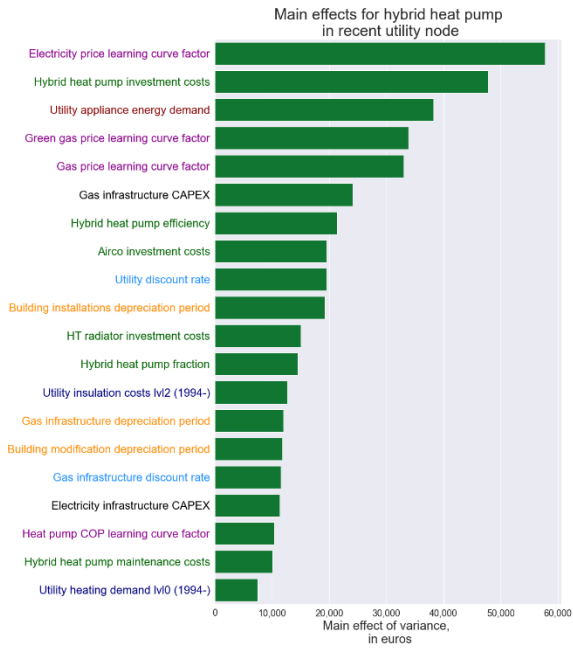
Factorial utility

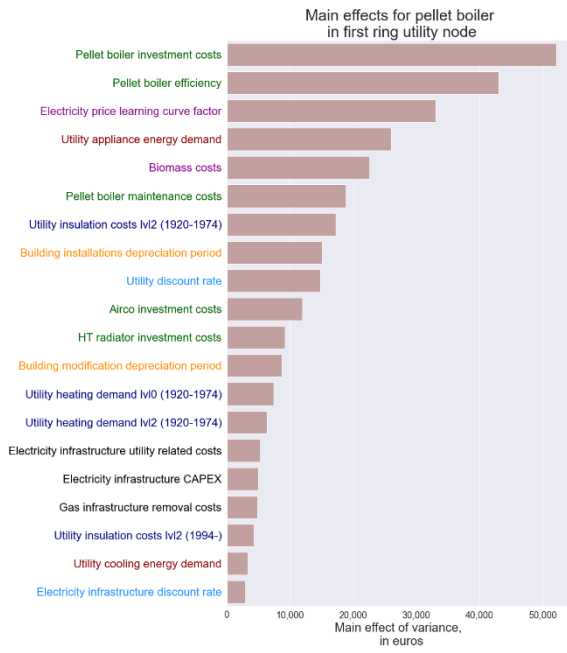
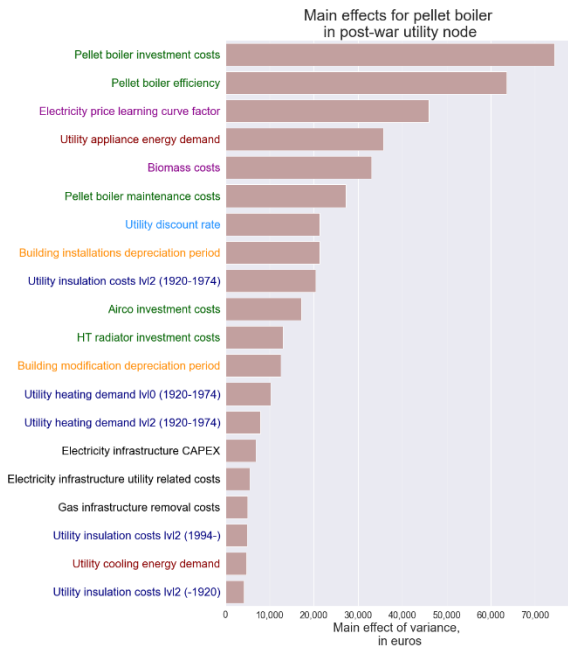
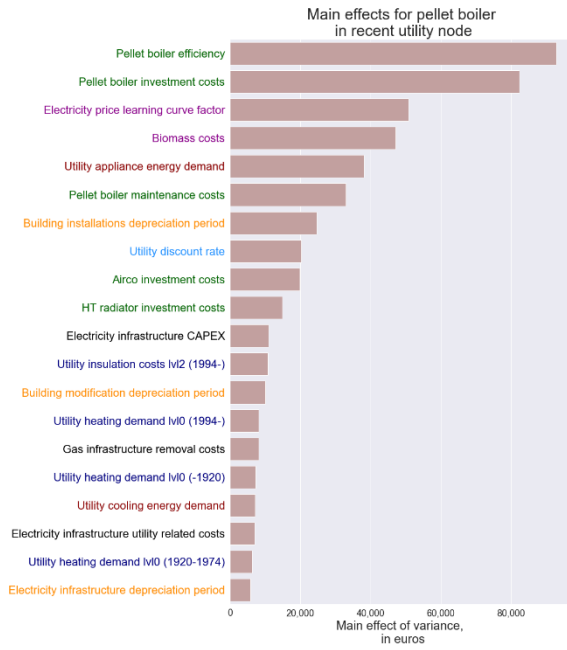
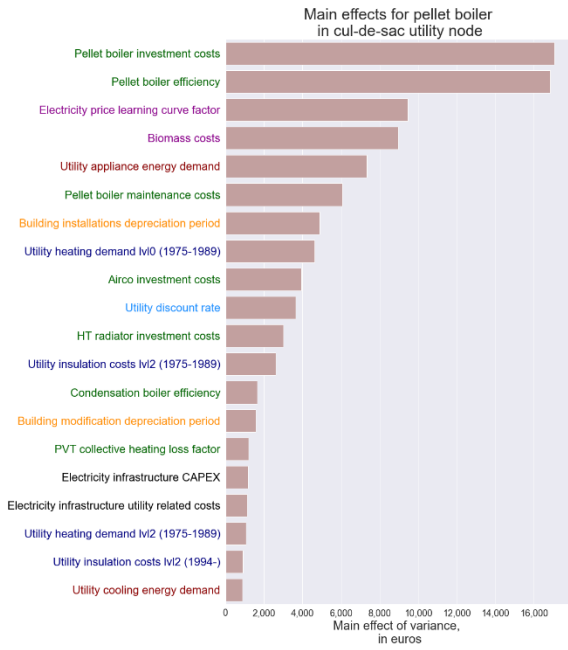


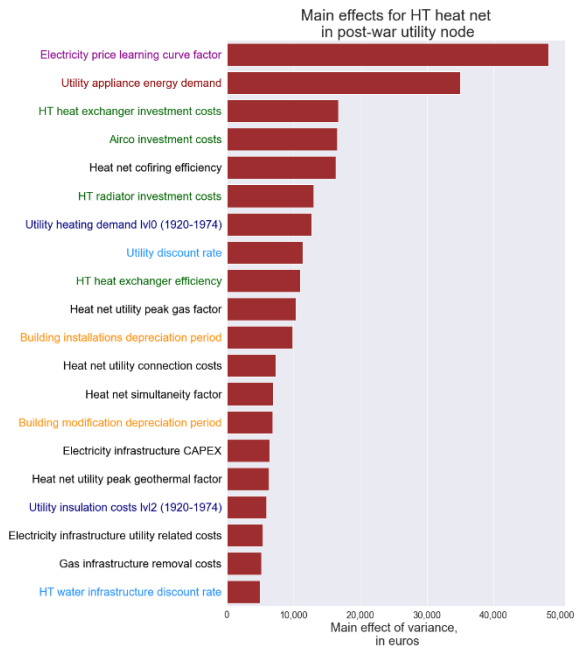
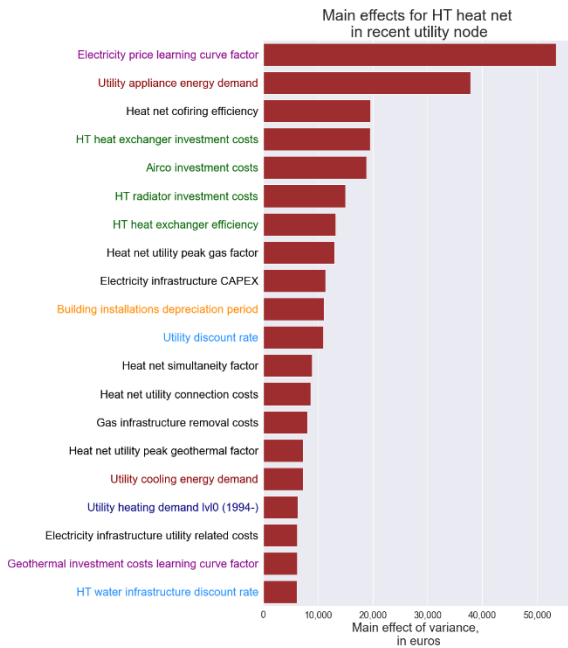
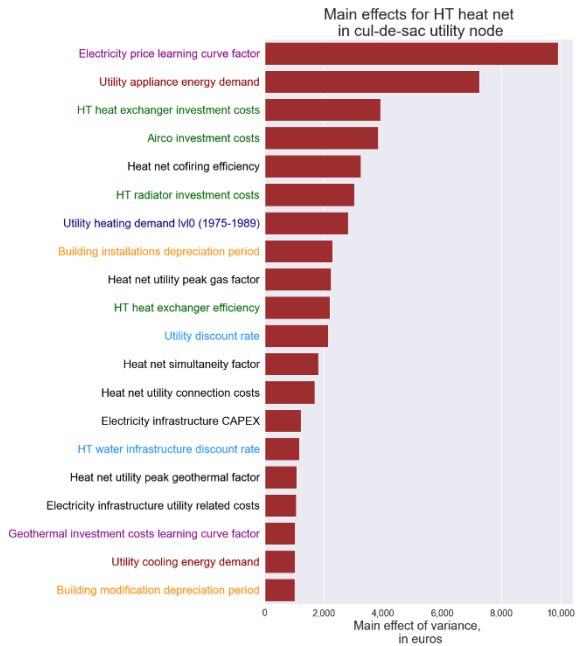
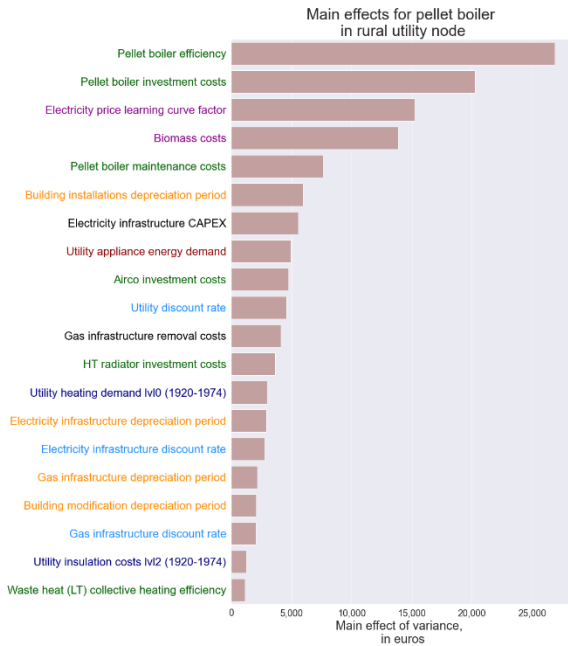


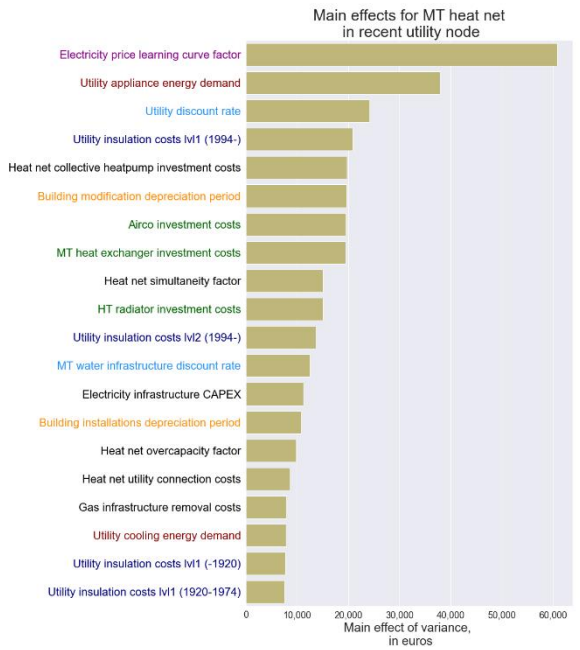
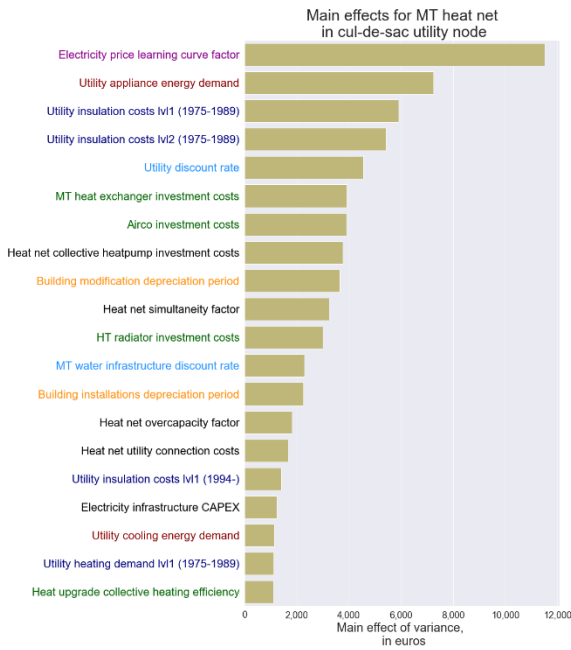
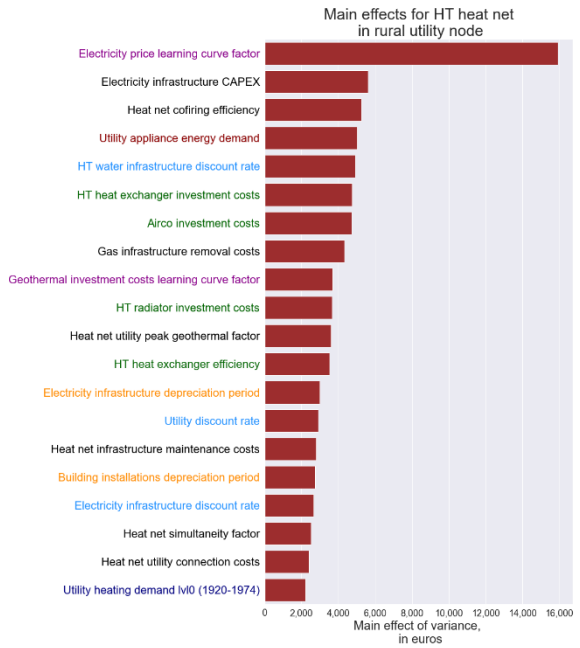
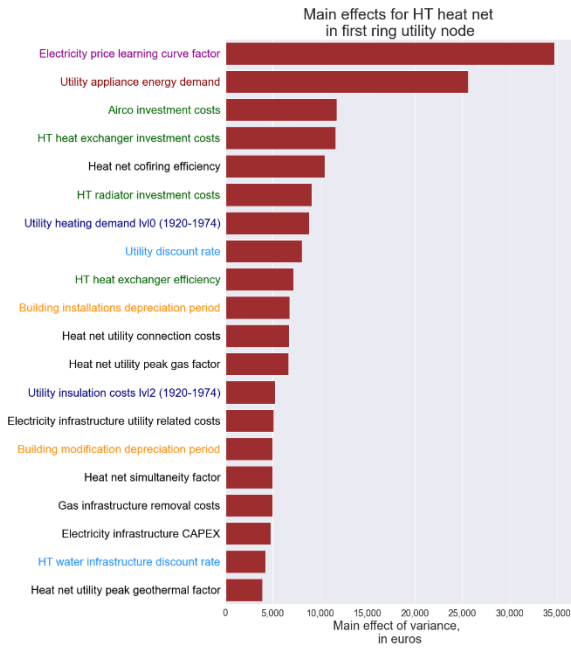


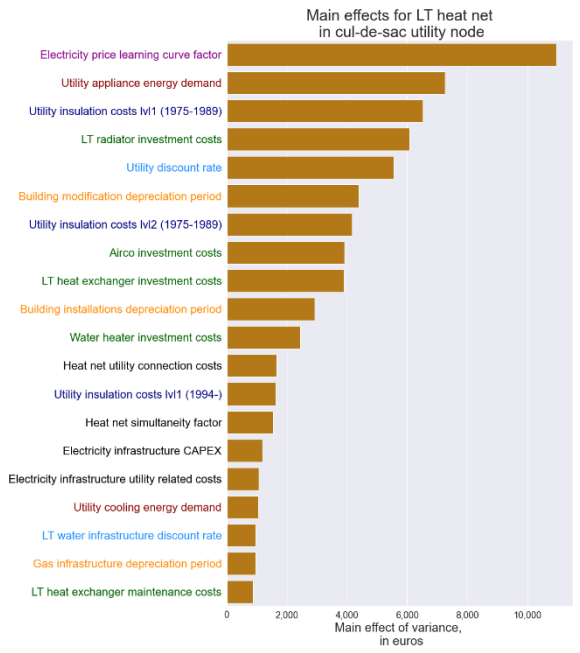
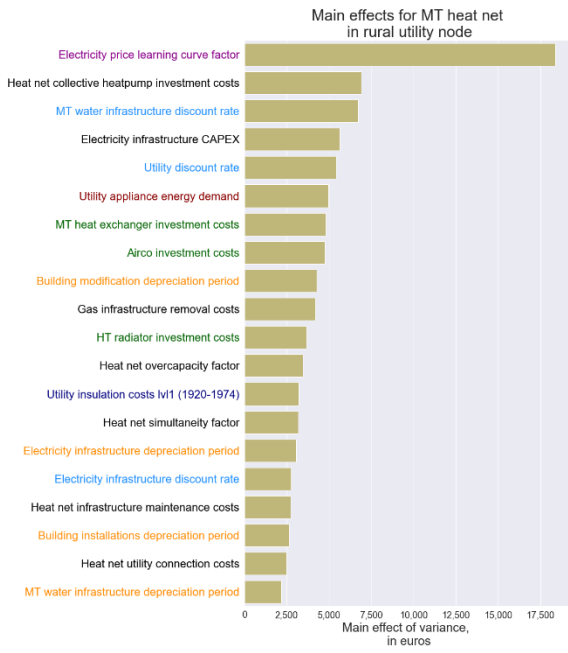
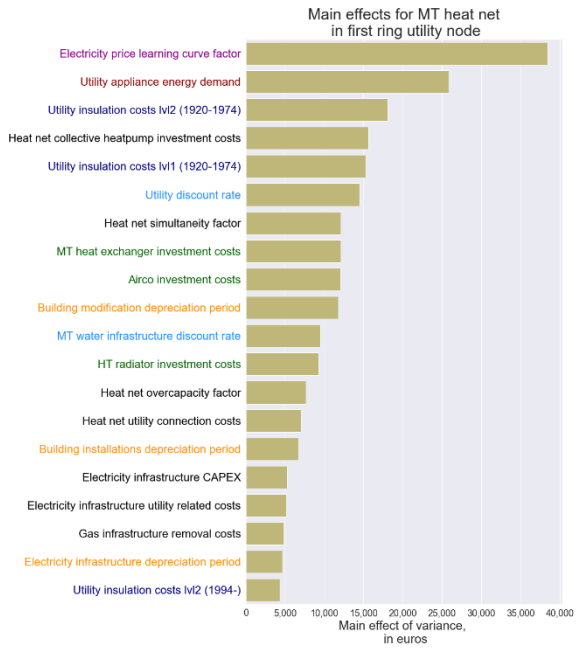
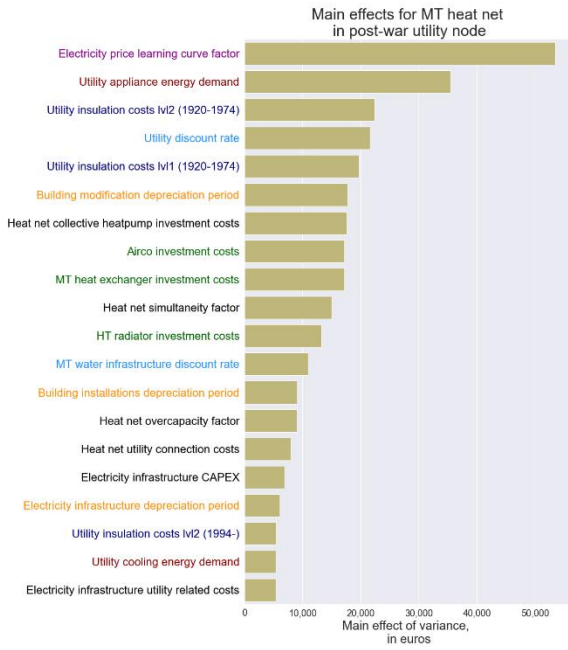


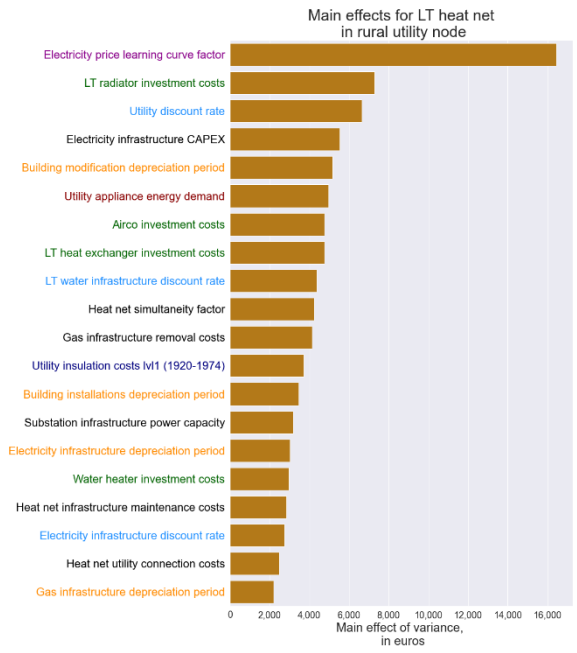
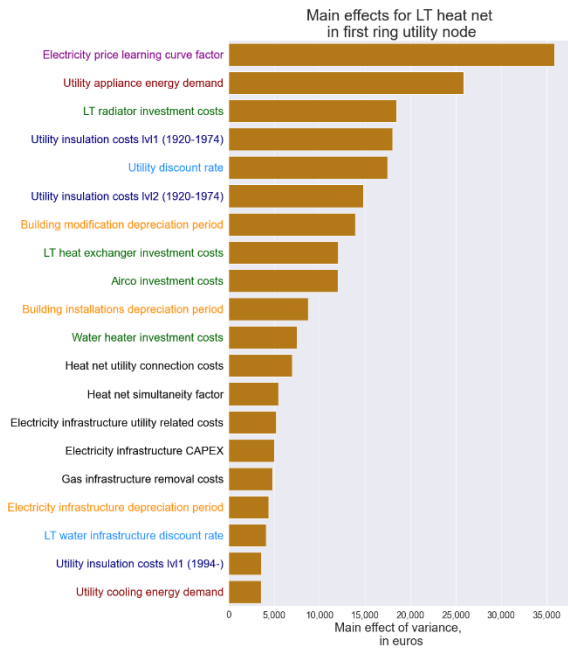
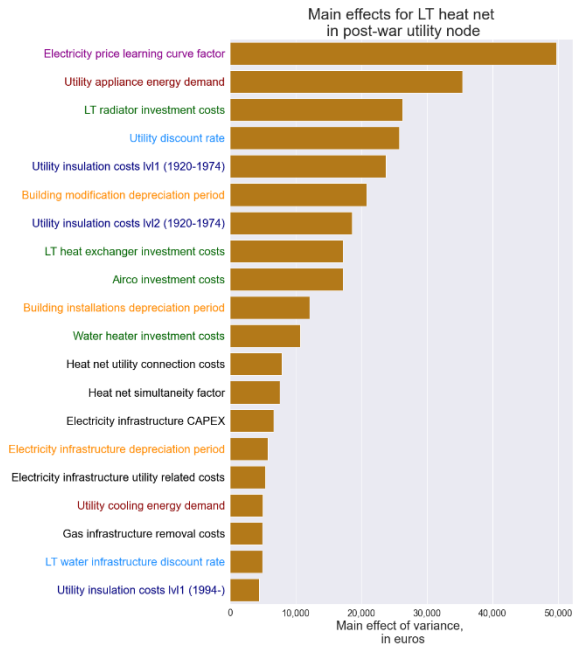
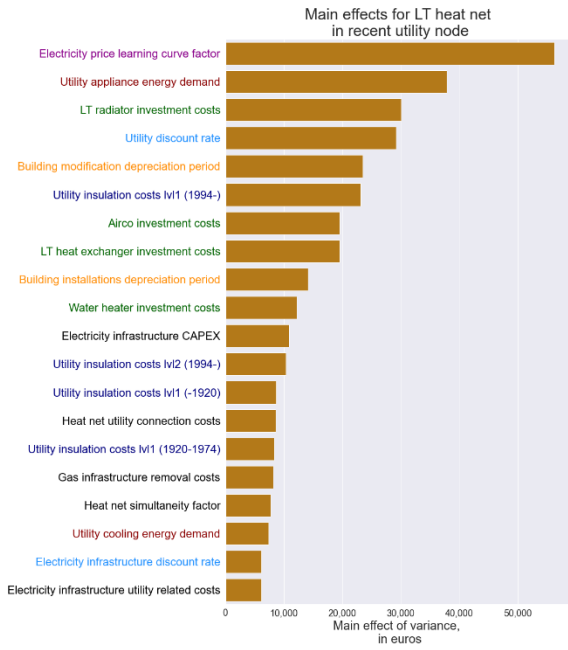






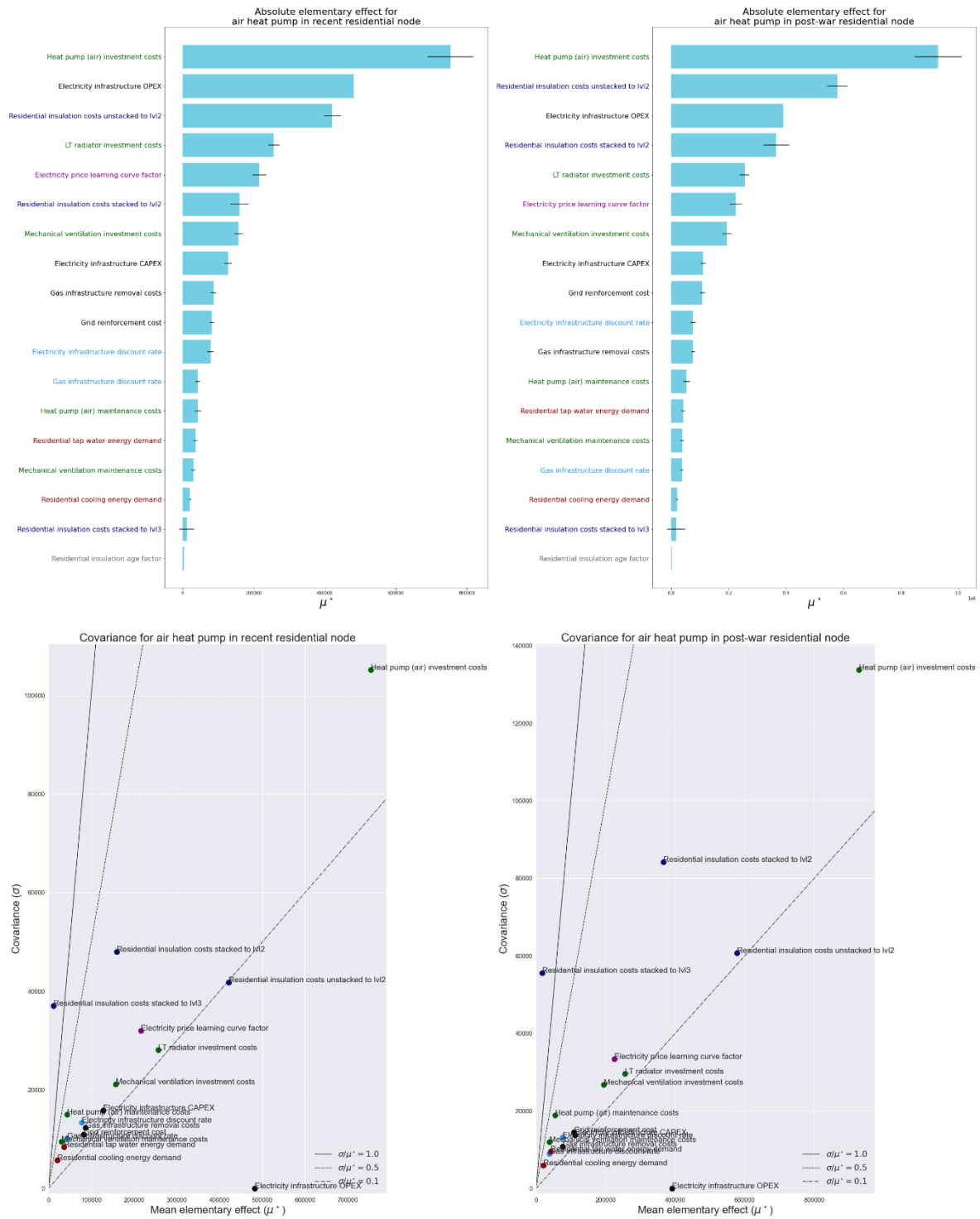


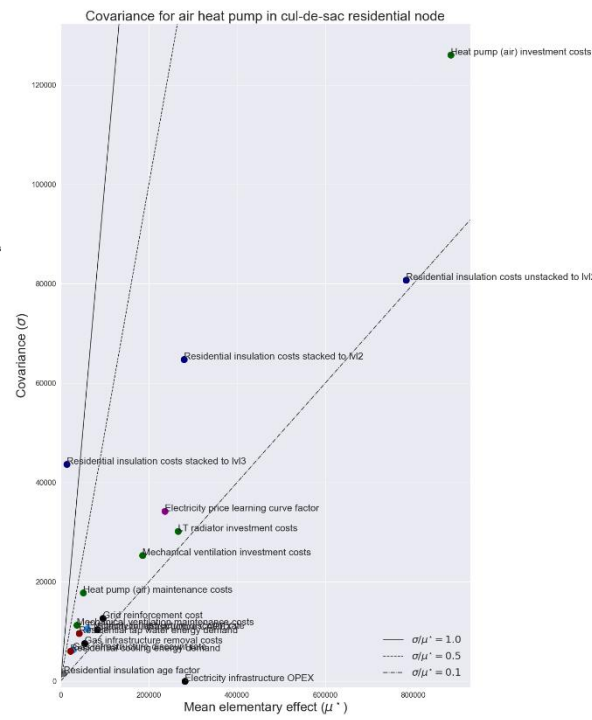
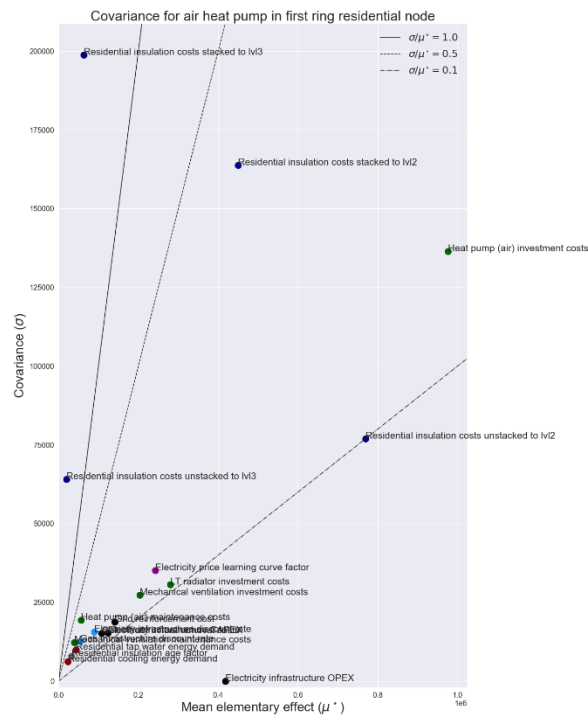
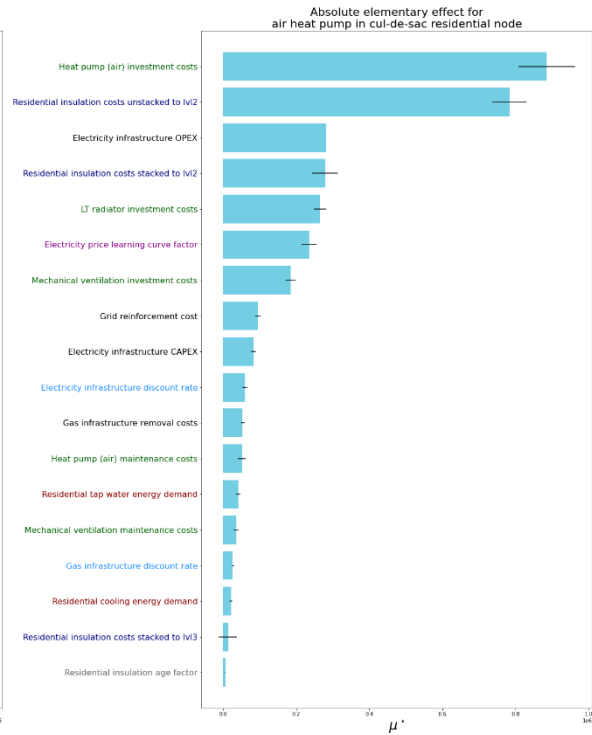
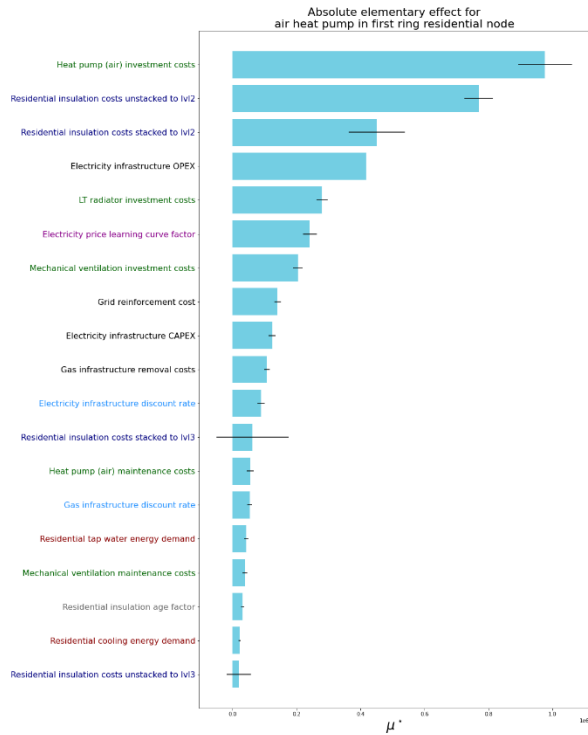


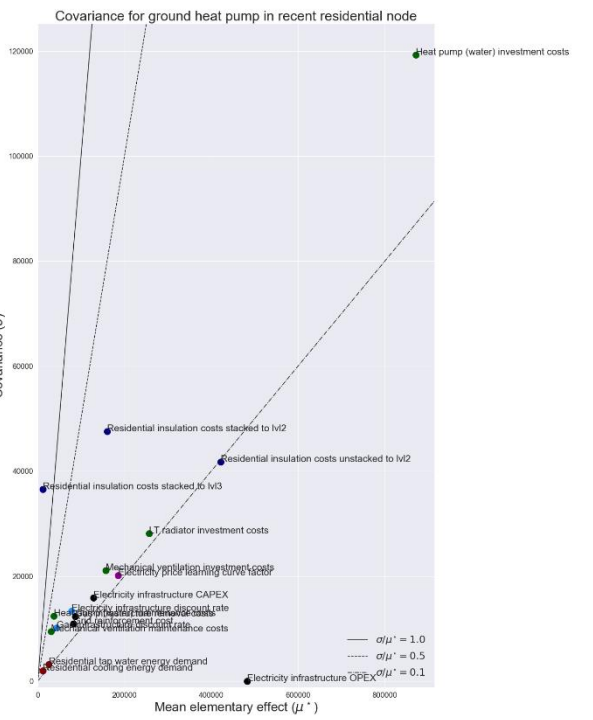
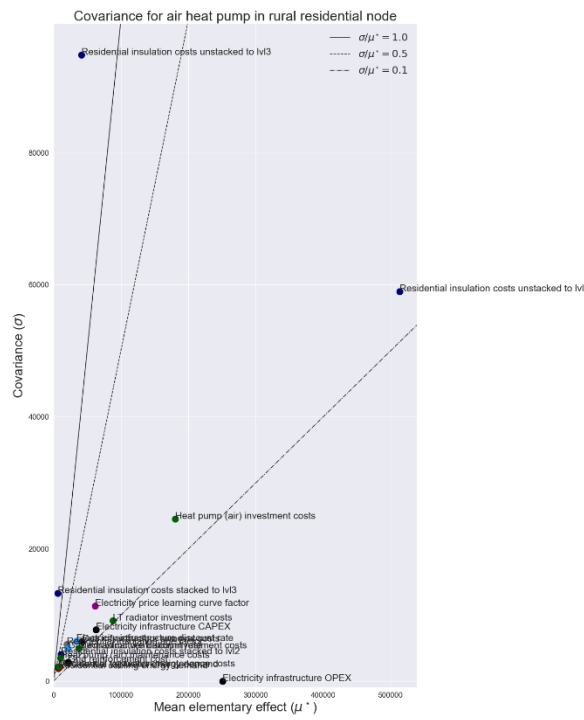
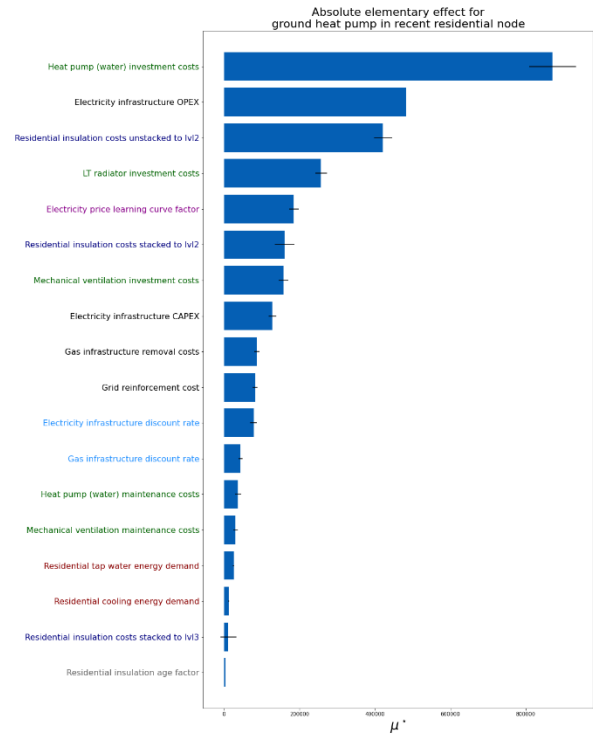
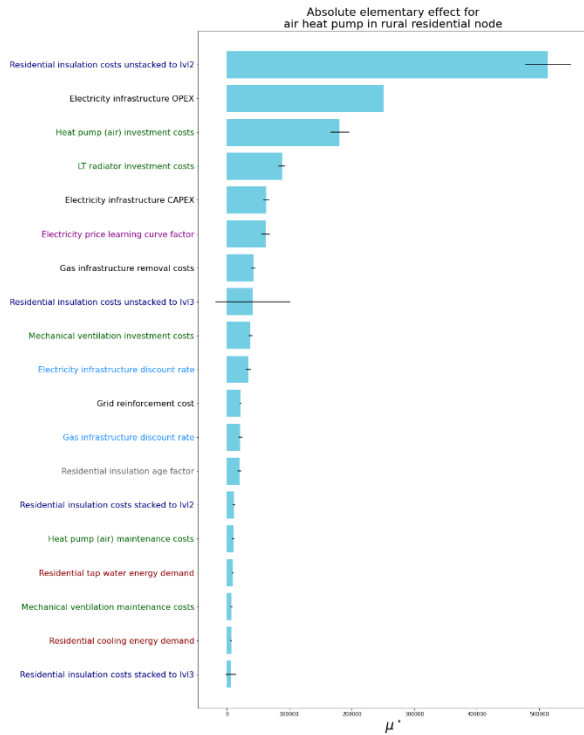


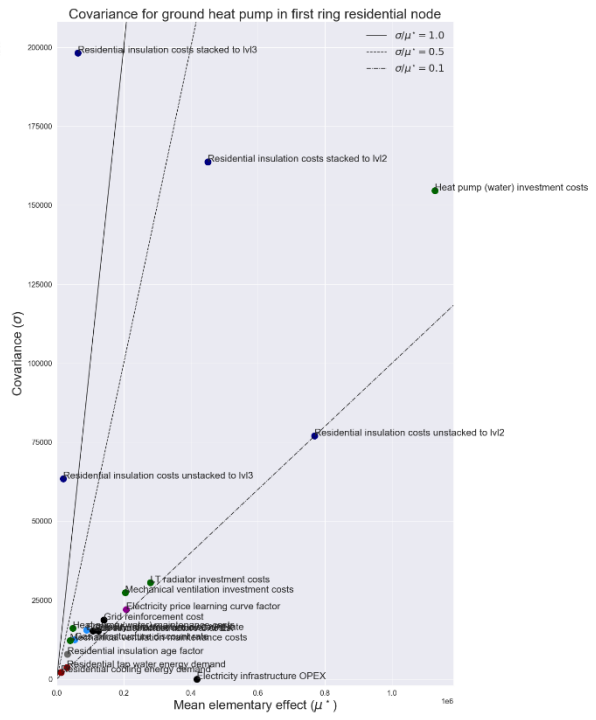
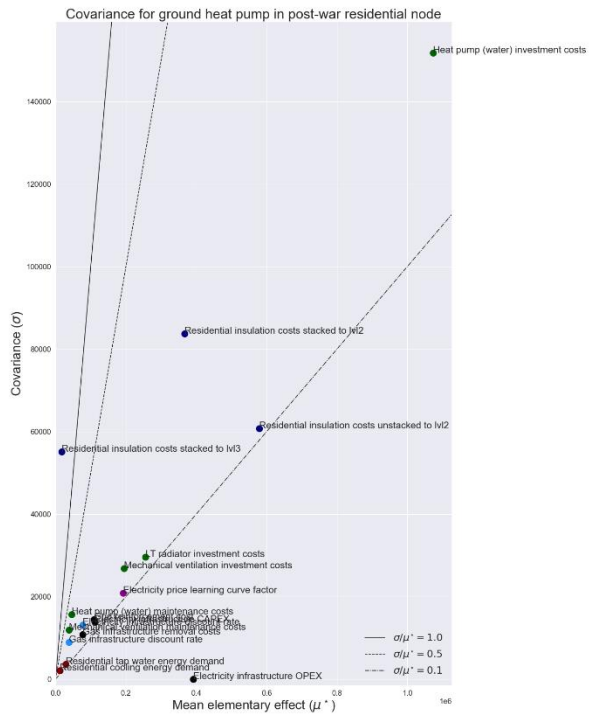
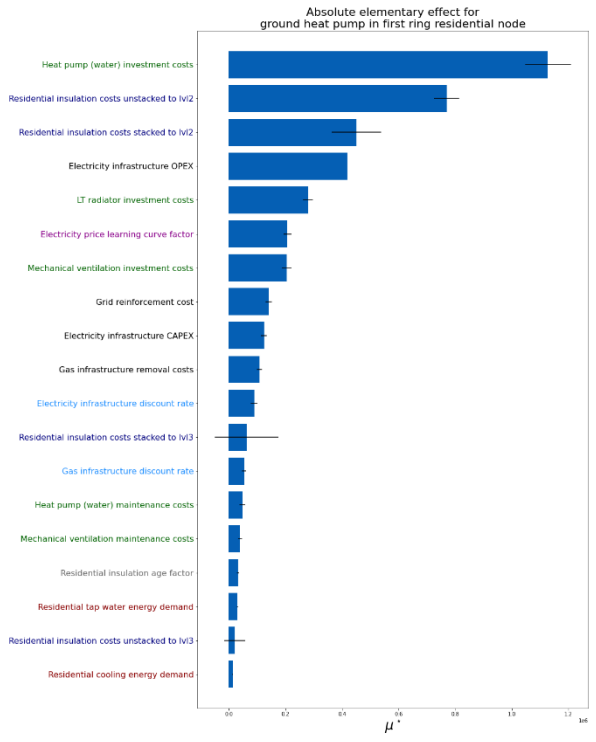
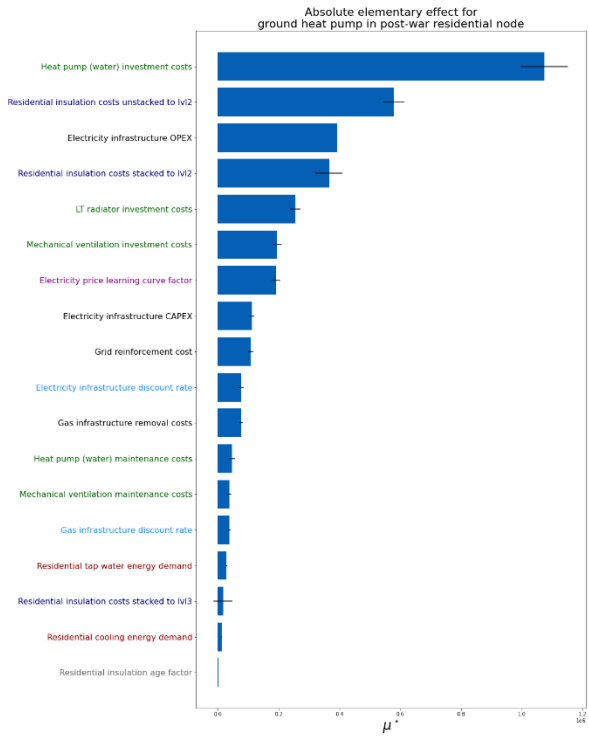
Barplots and covariance plots of Morris analysis

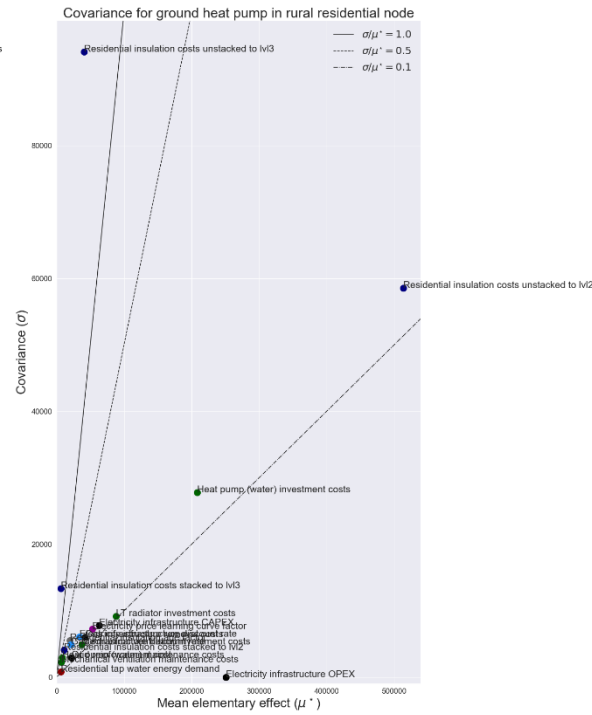
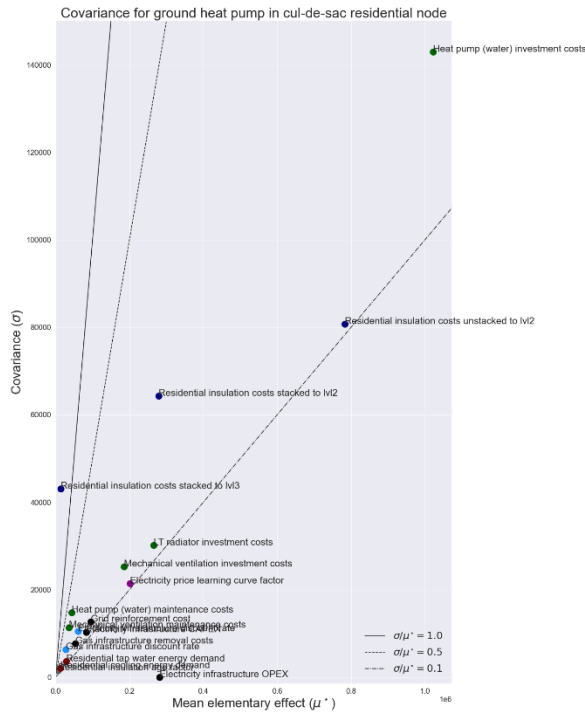
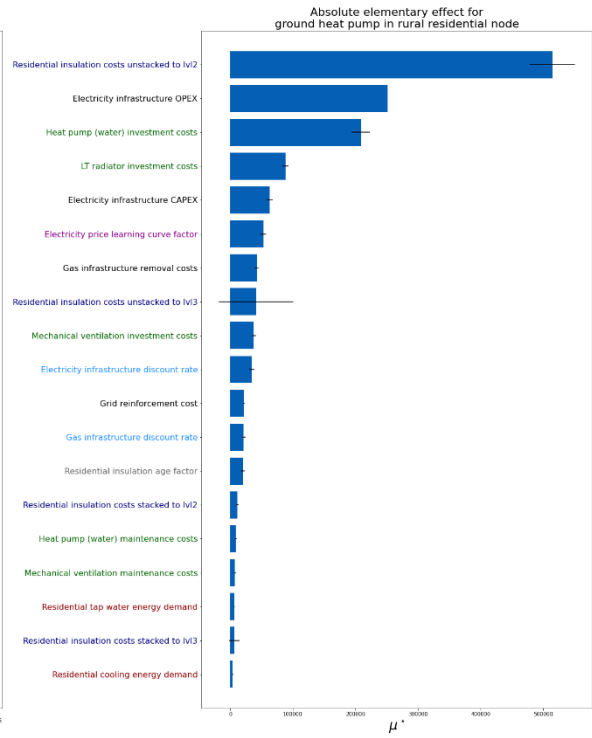
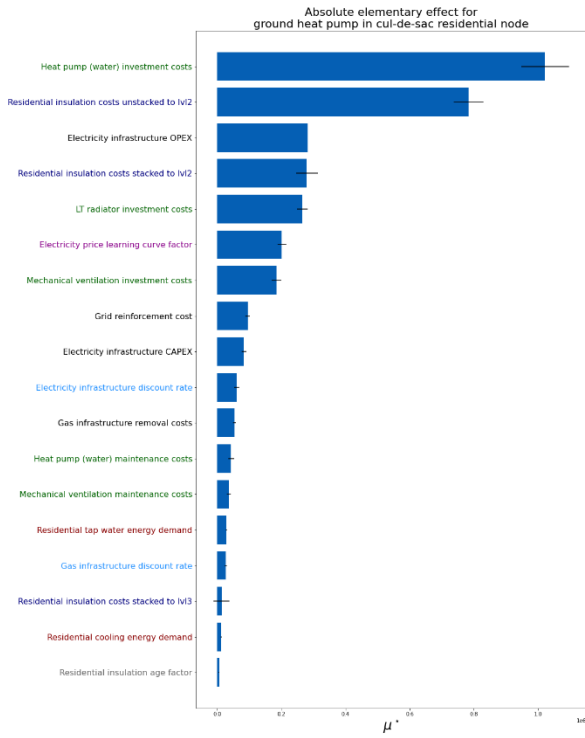
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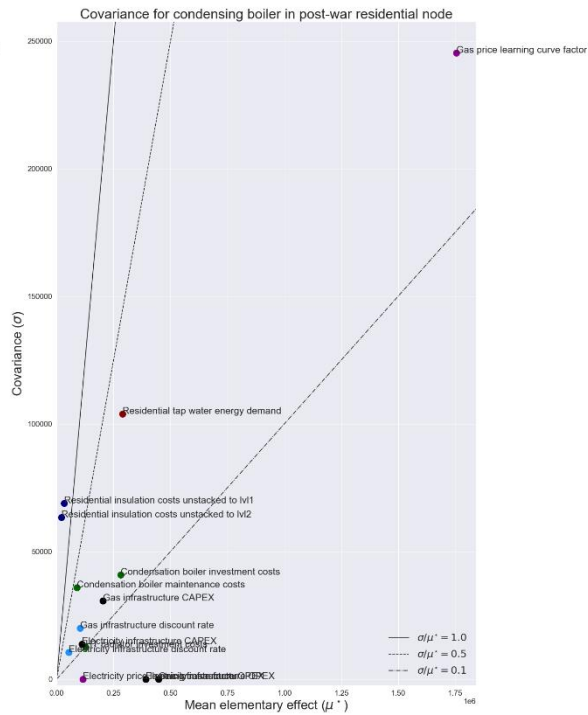
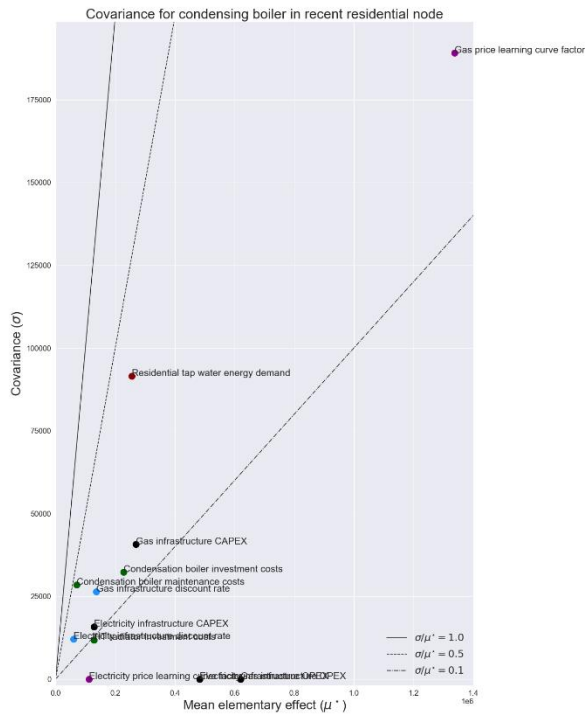
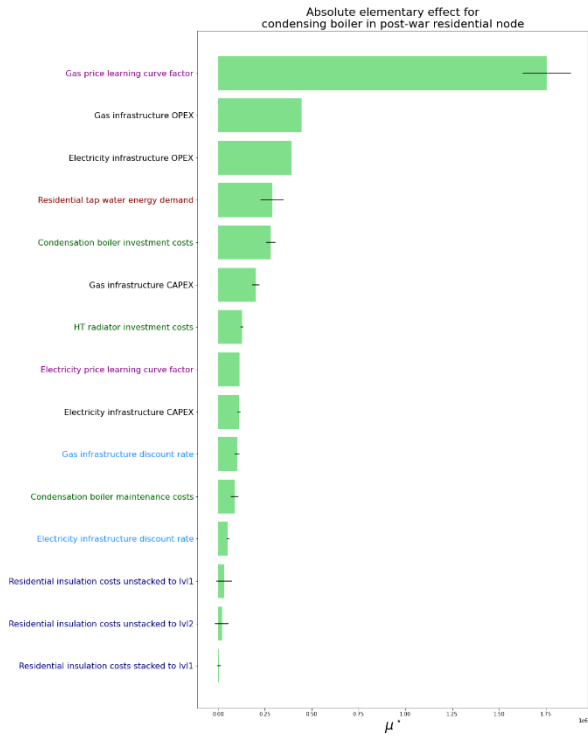
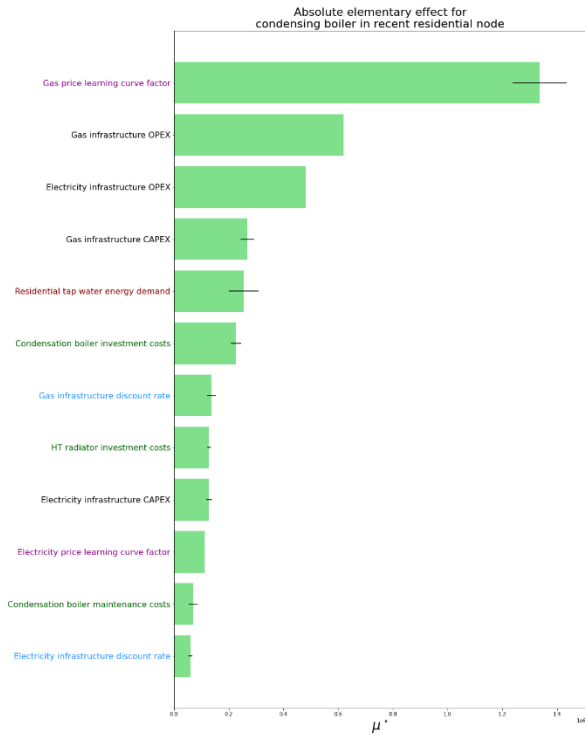


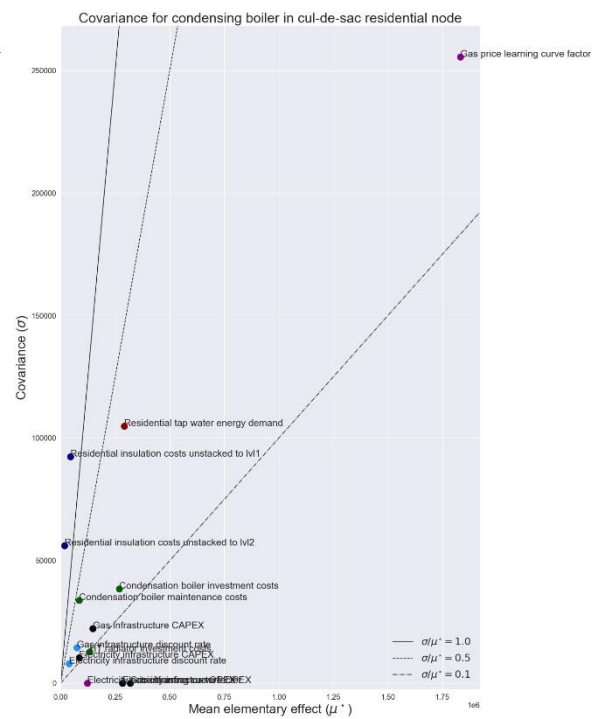
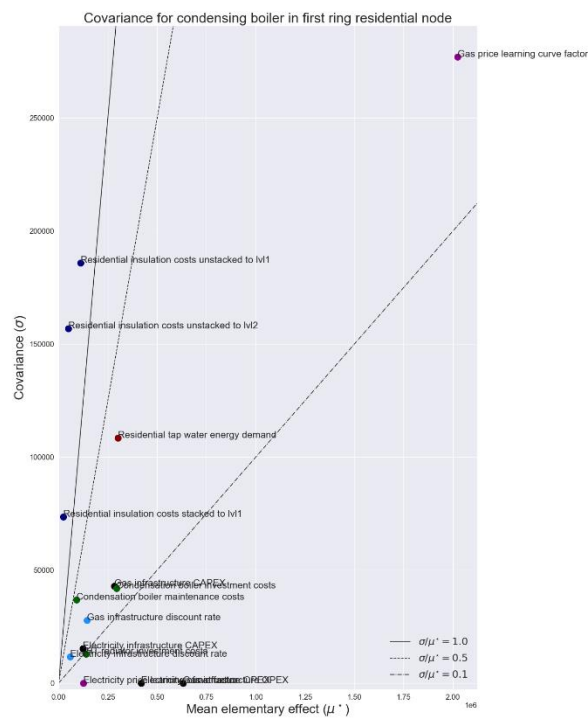
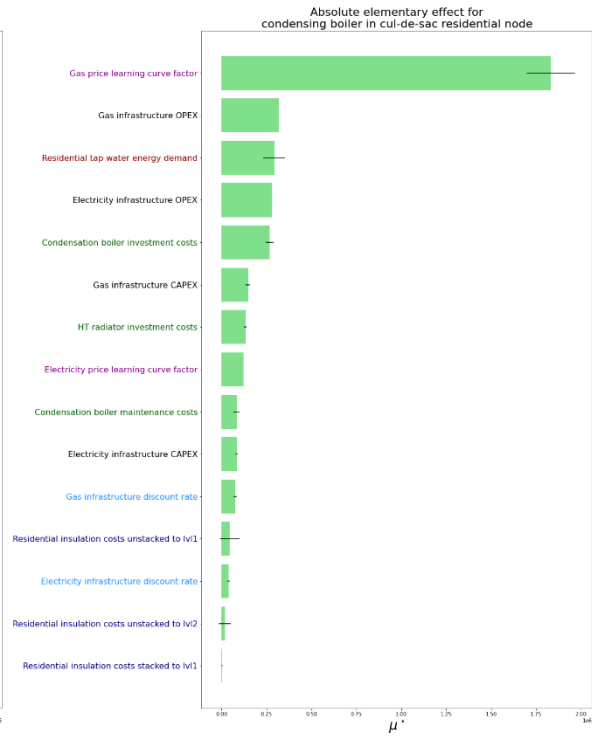
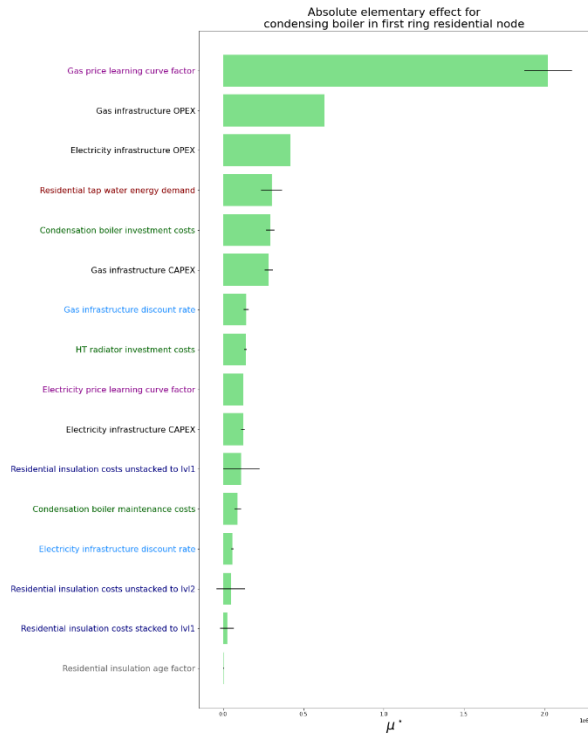


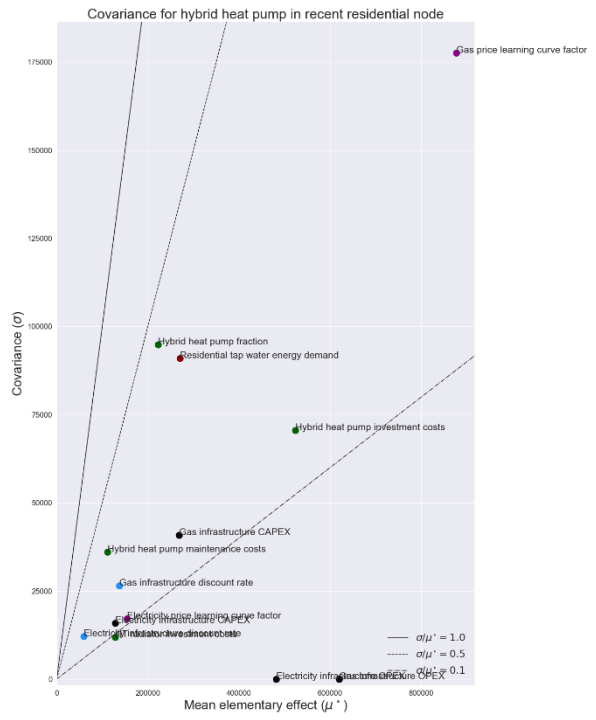
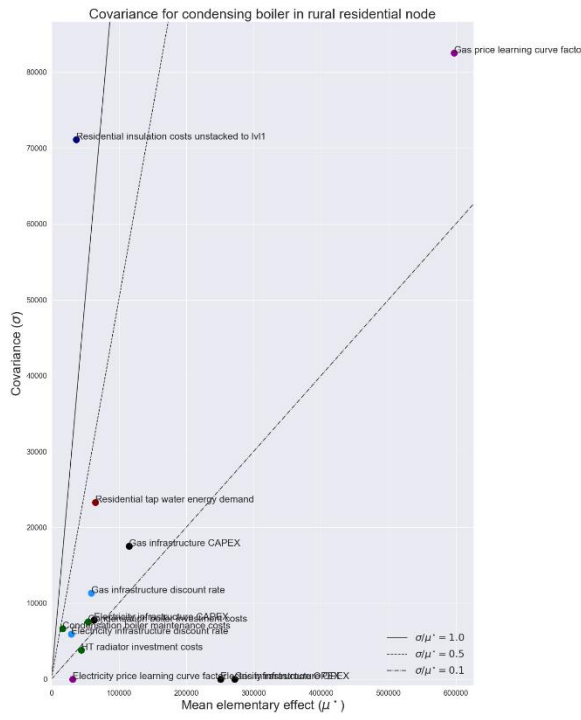
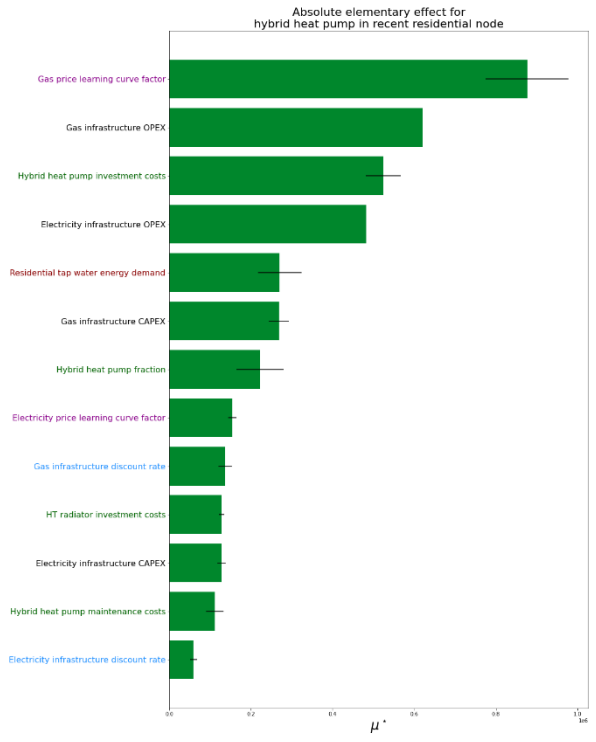
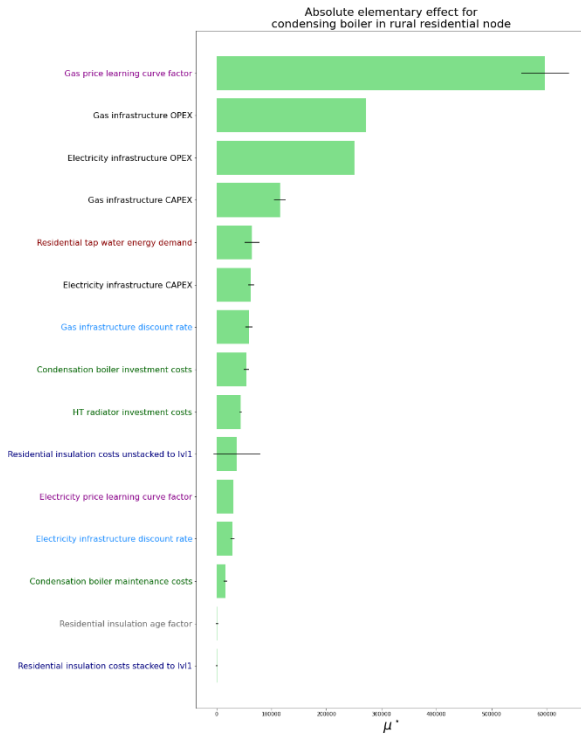


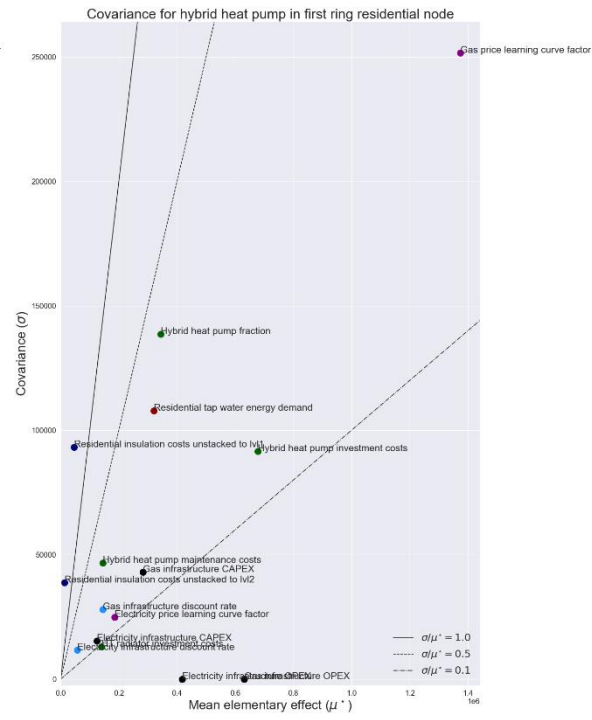
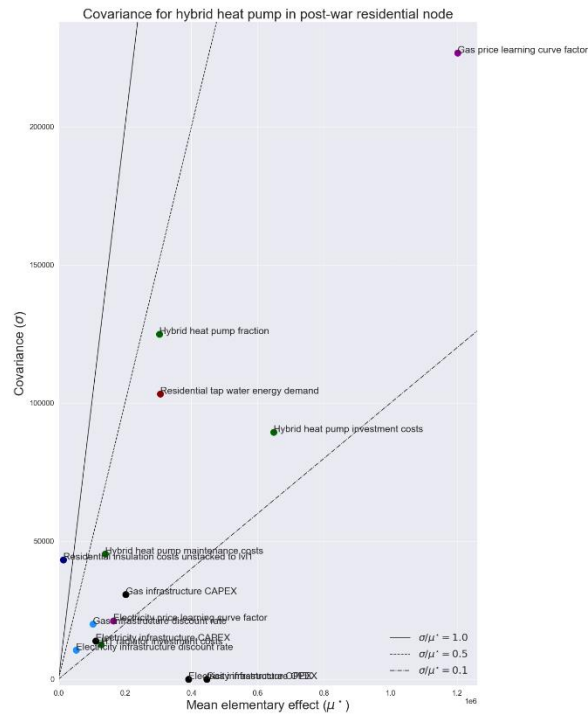
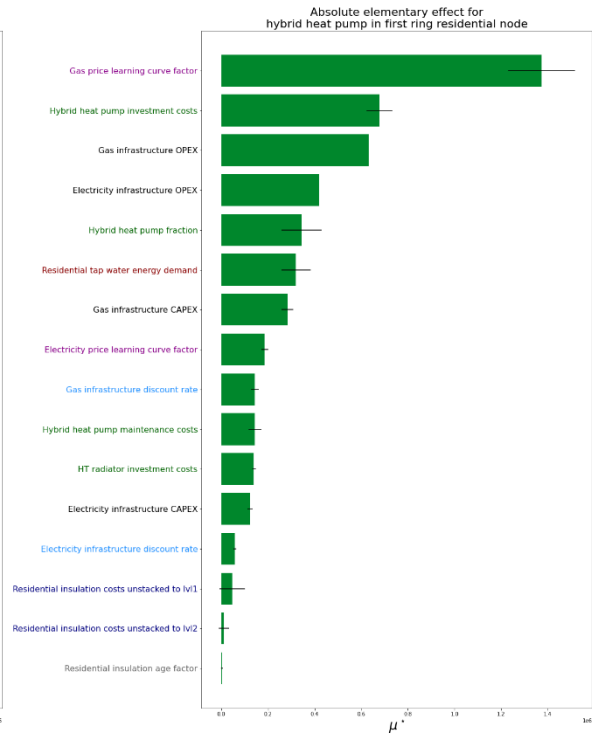
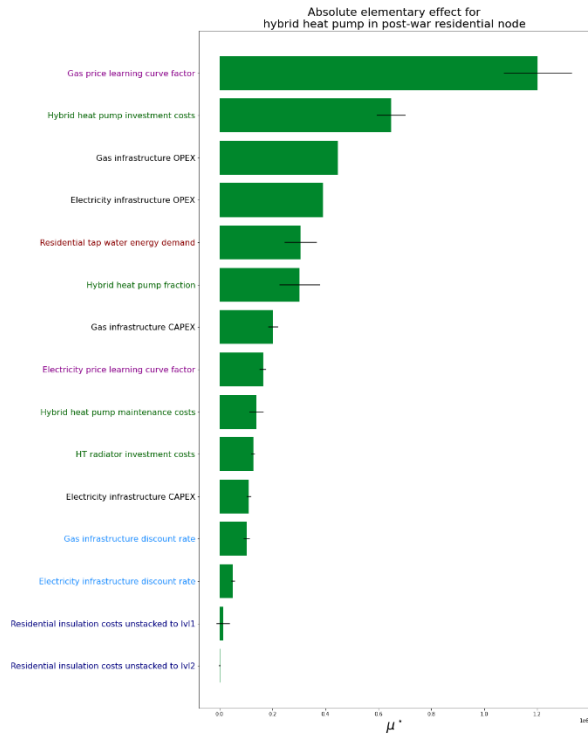


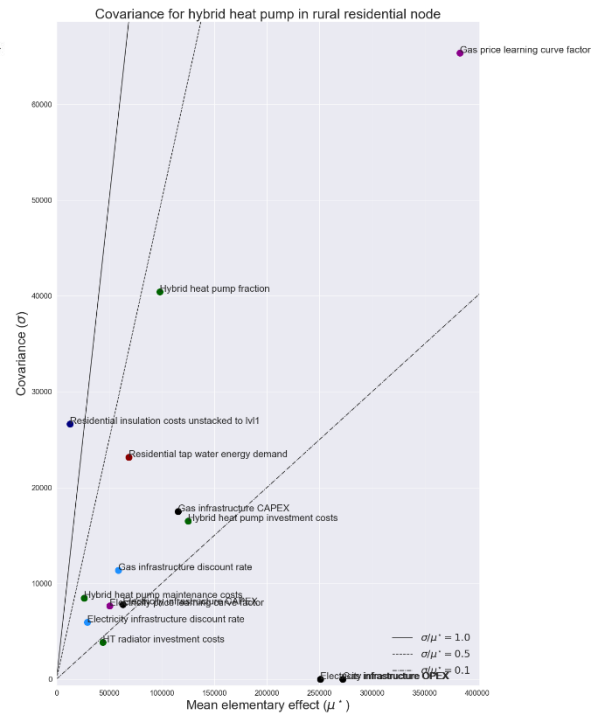
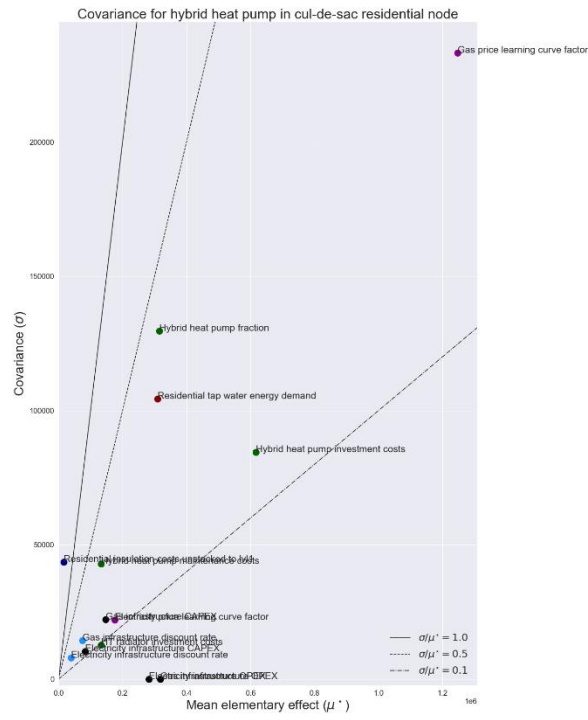
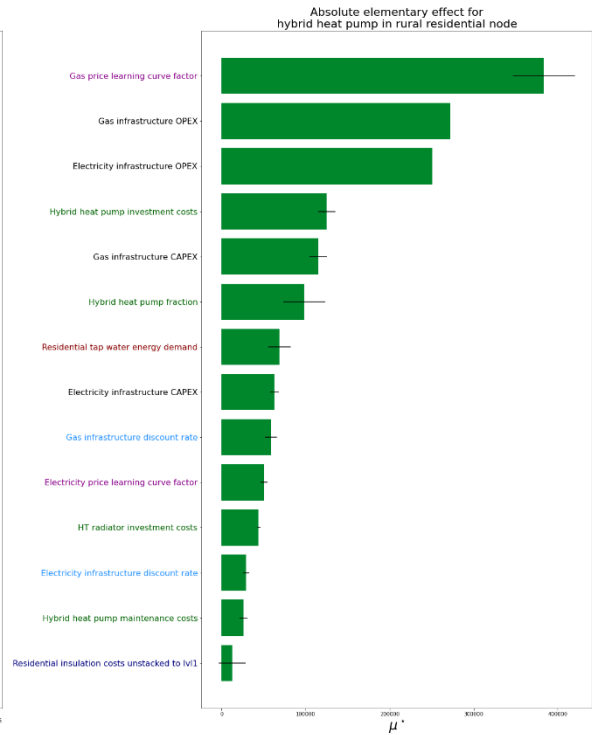
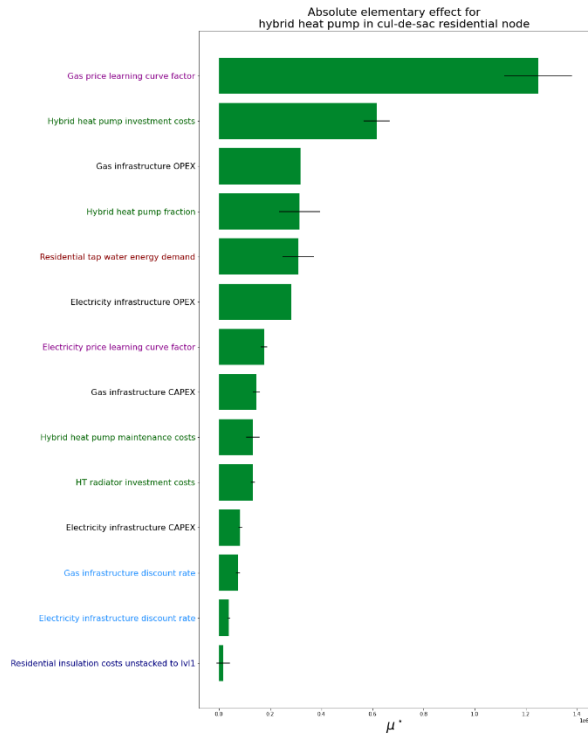


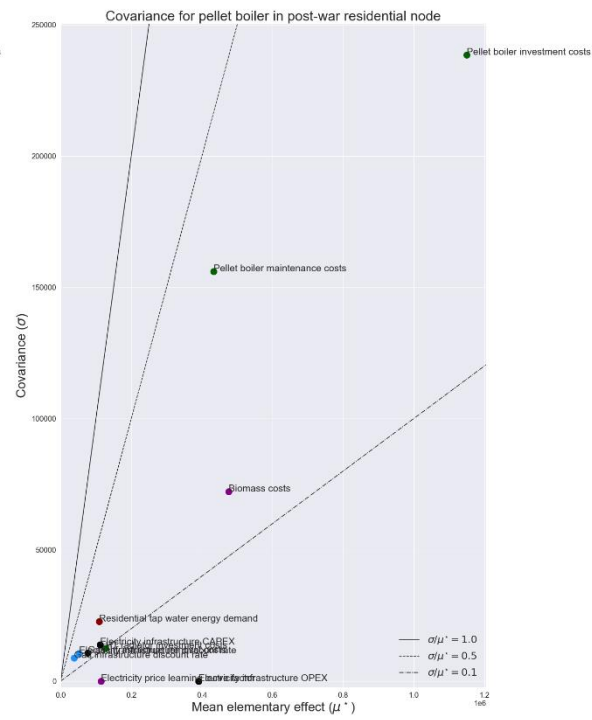
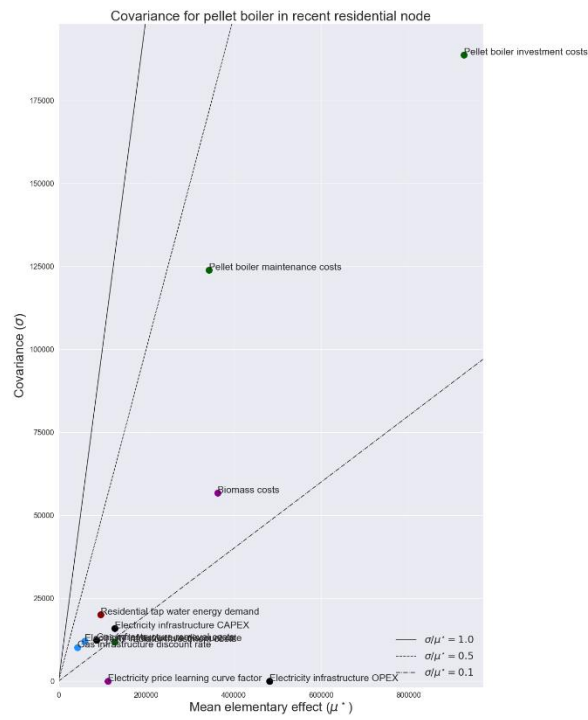
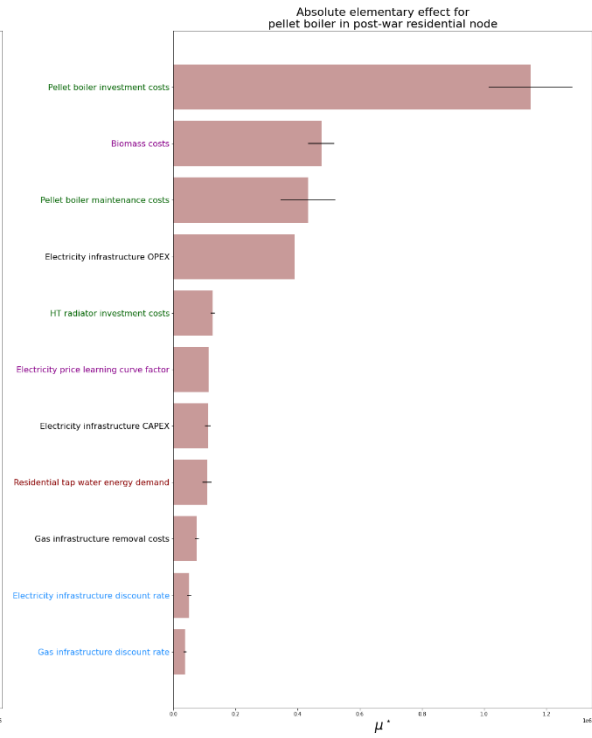
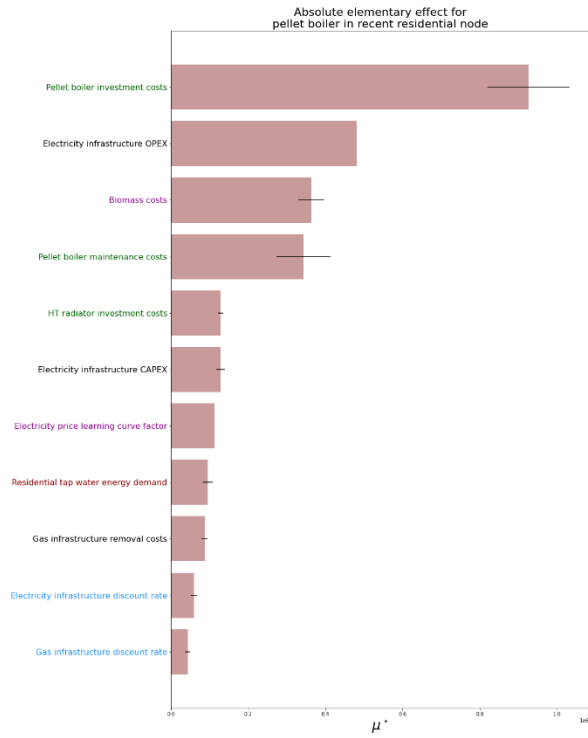


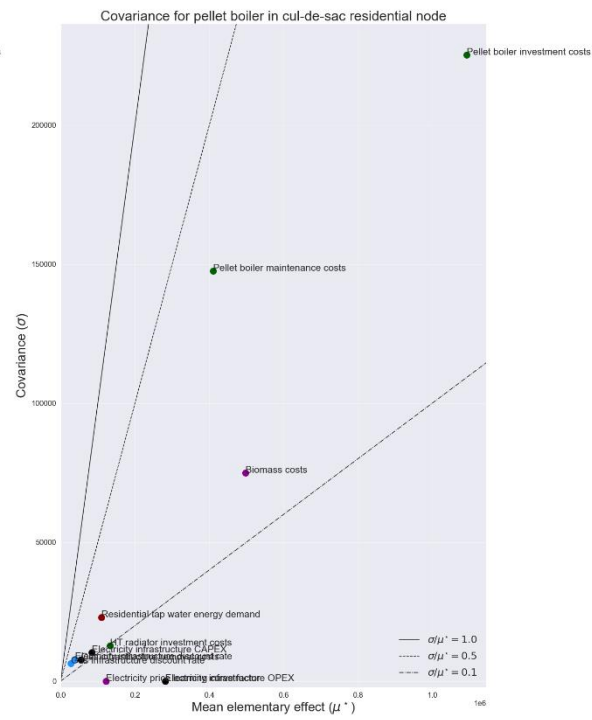
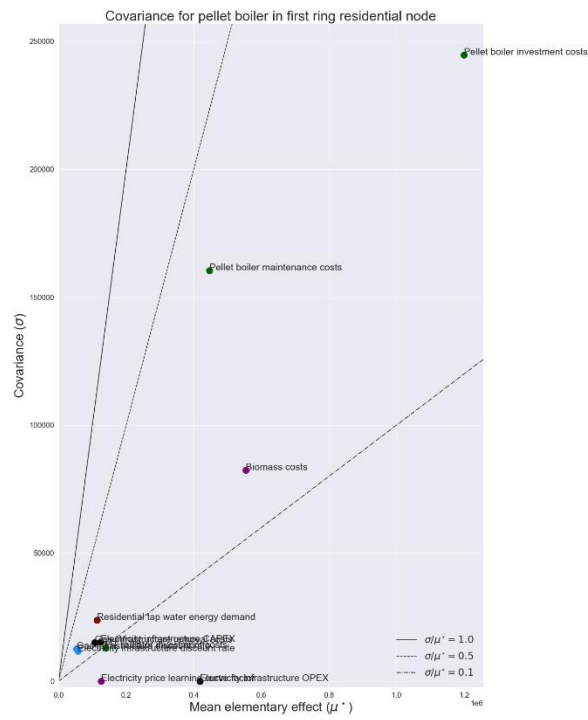
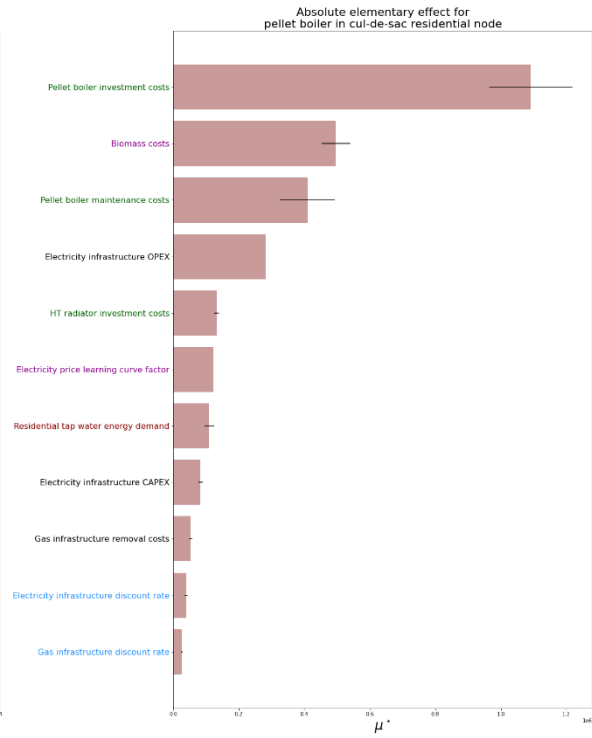
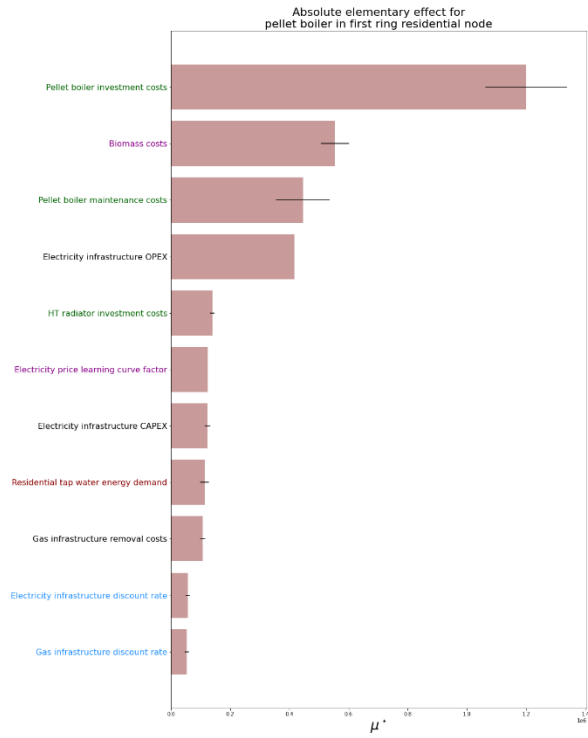


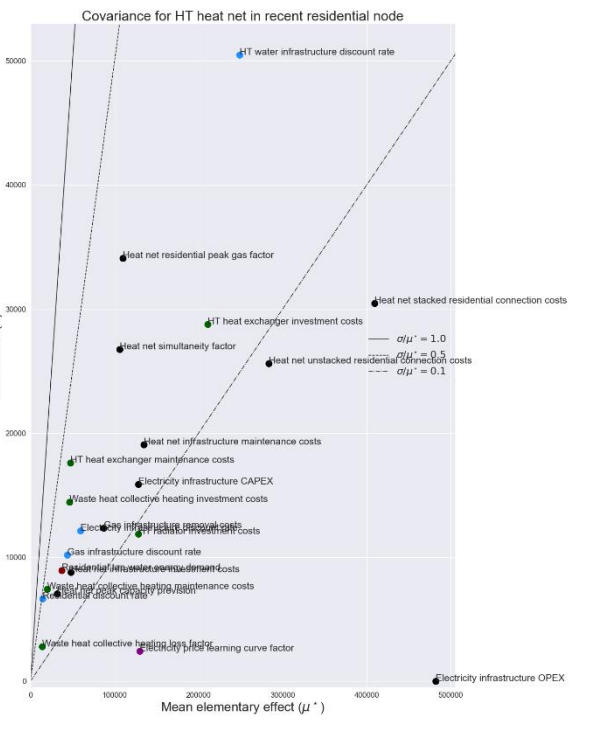
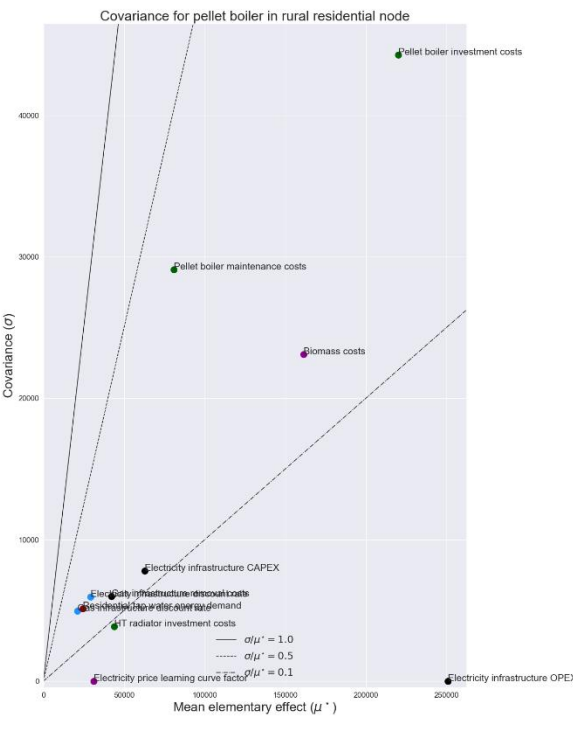
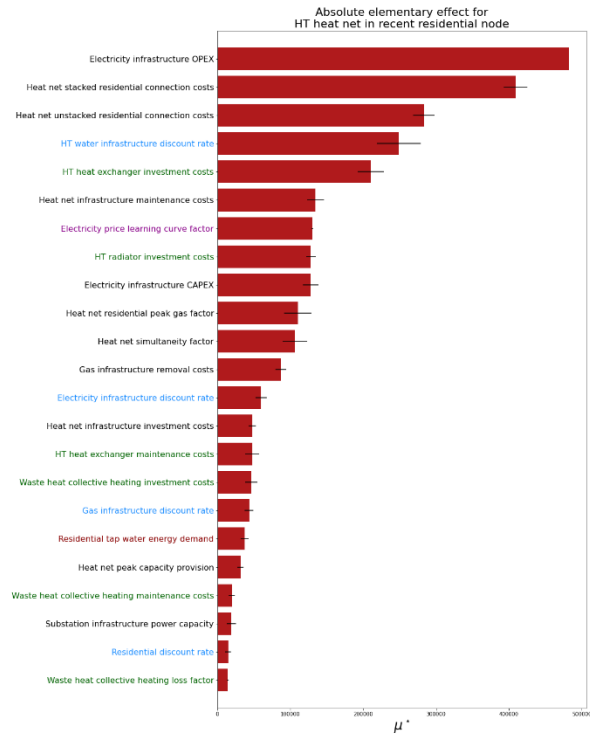
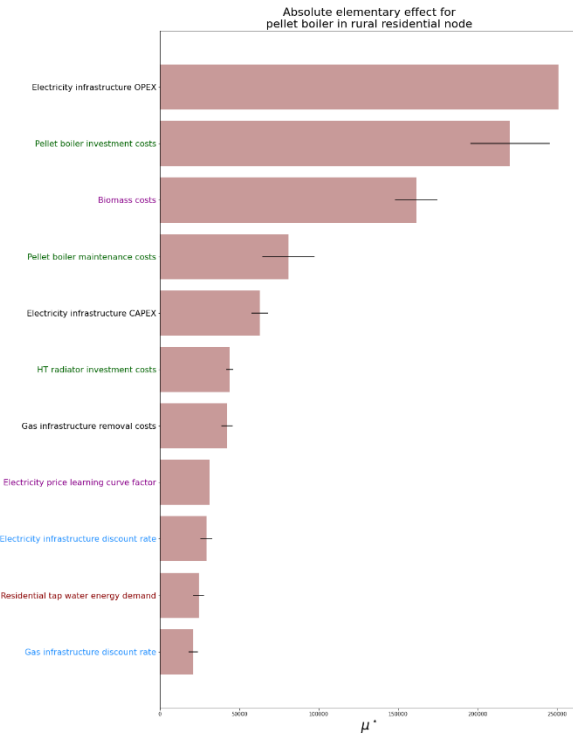


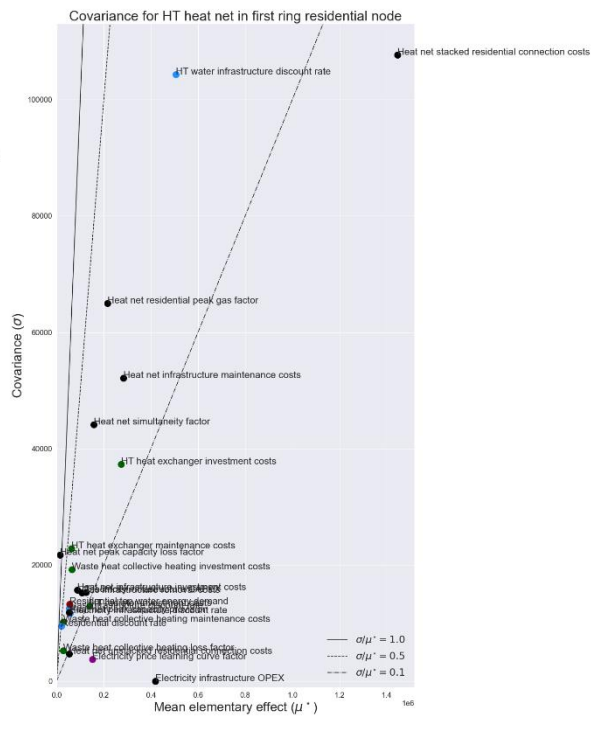
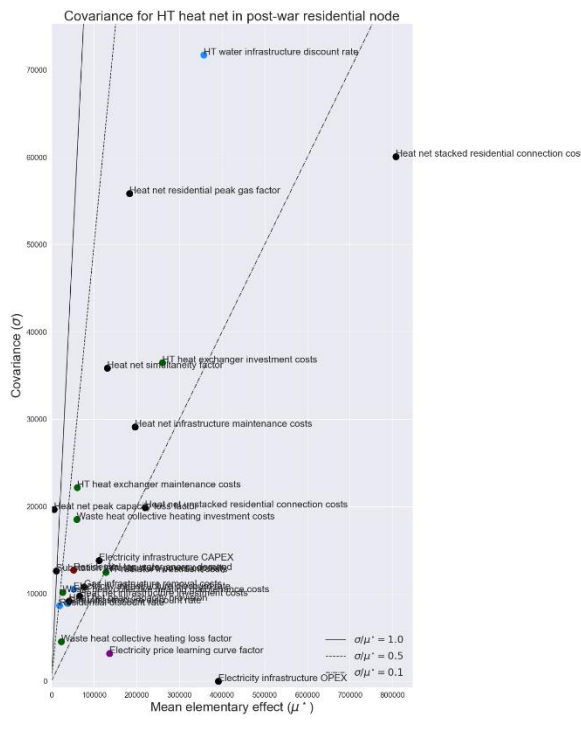
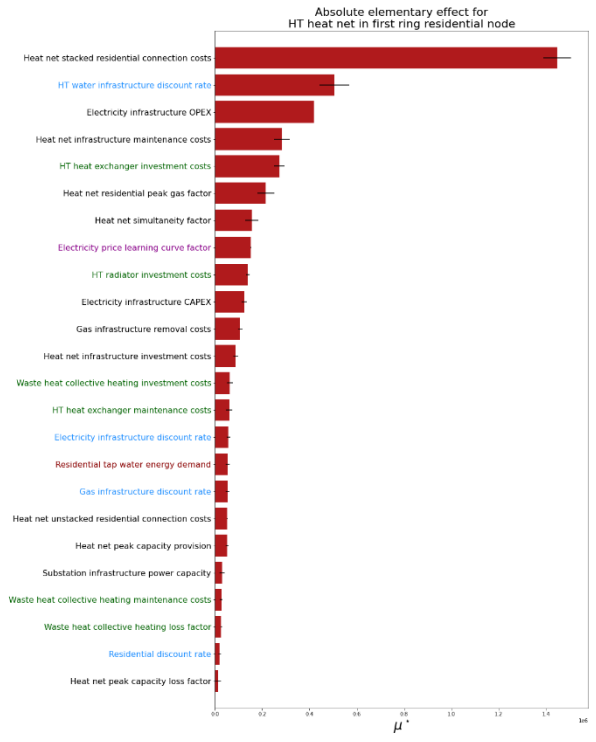
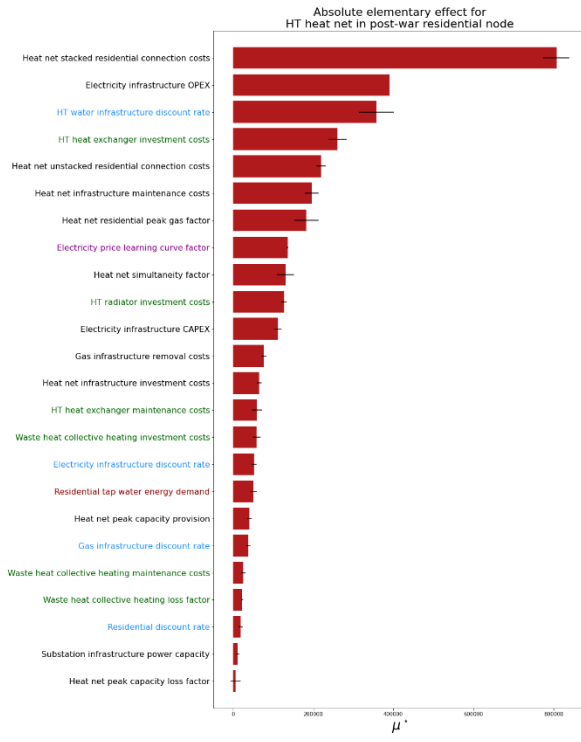


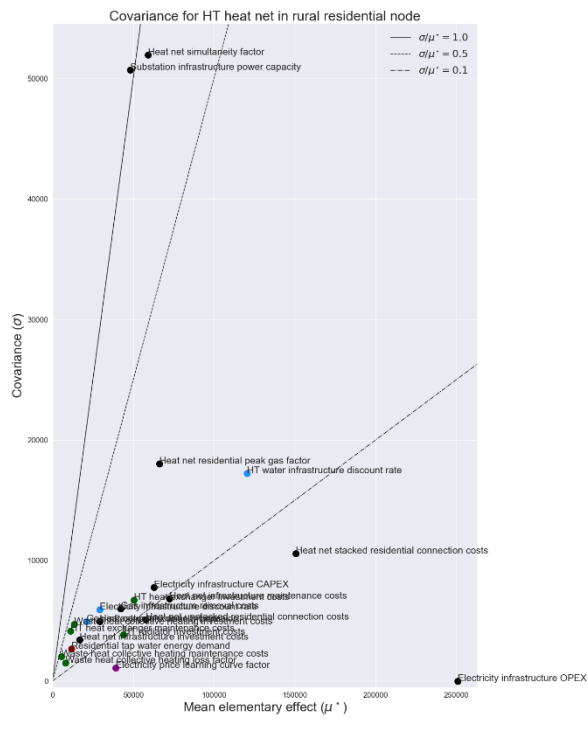
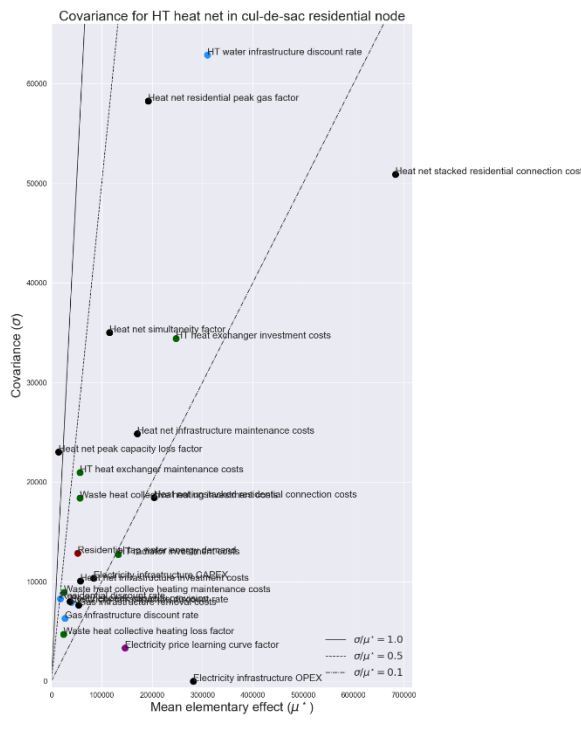
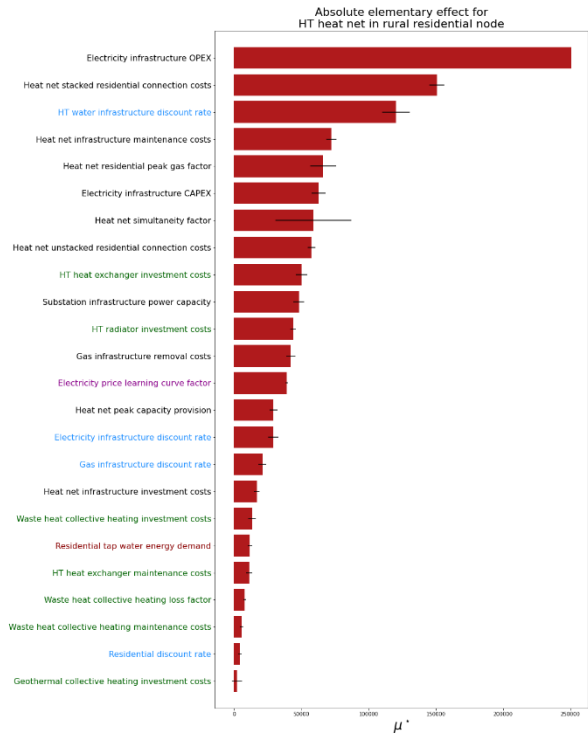
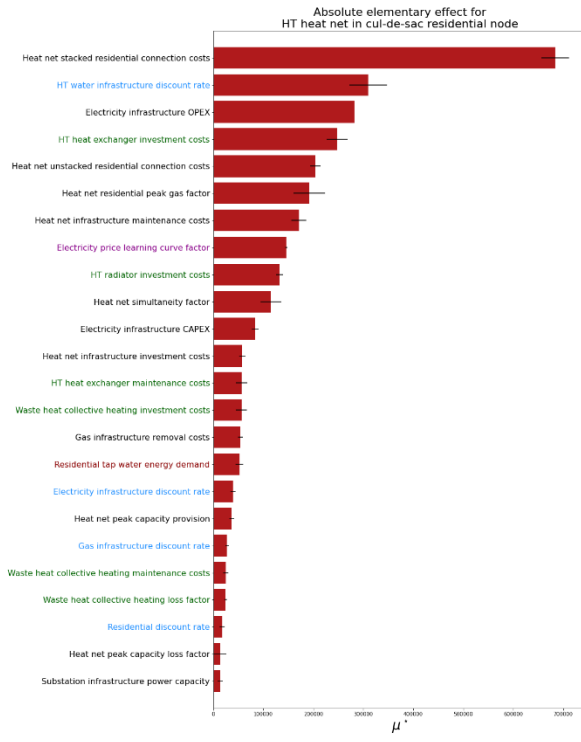


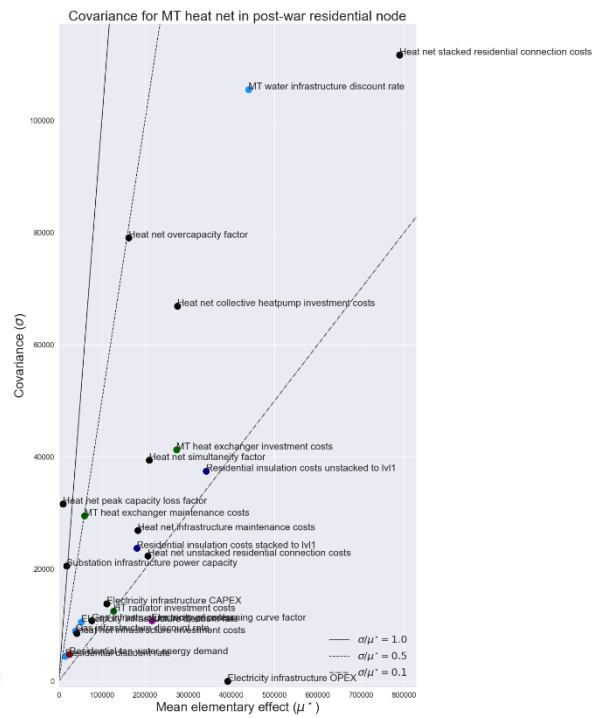
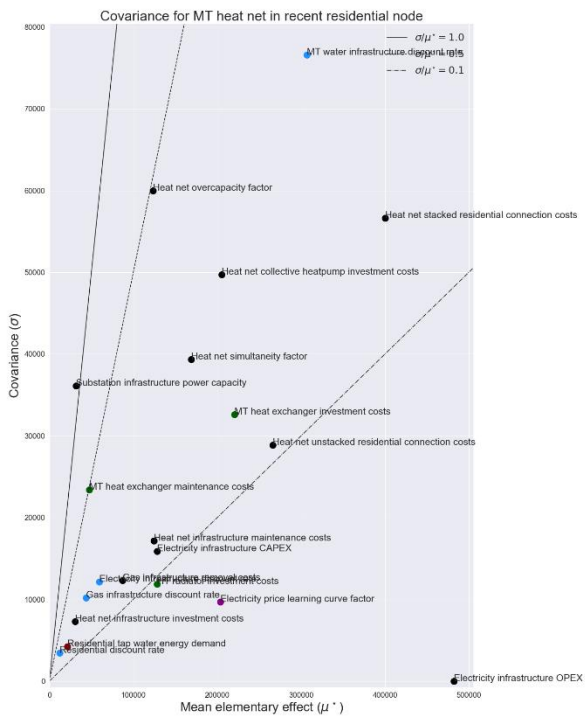
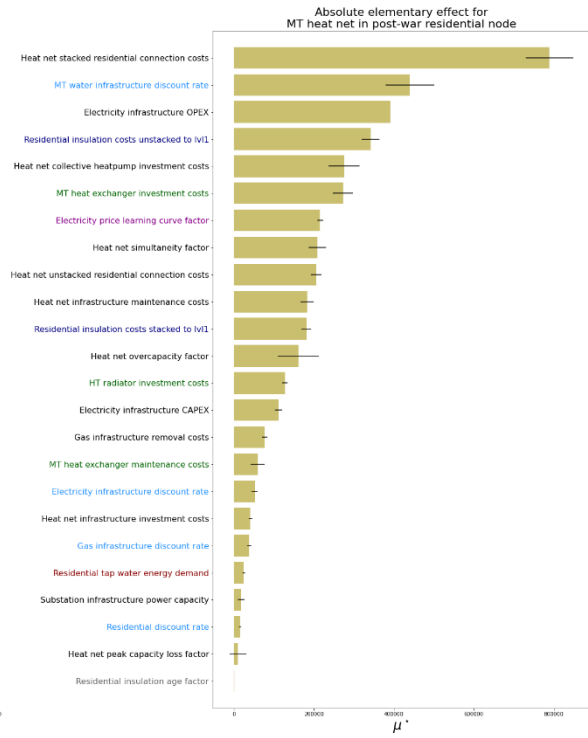
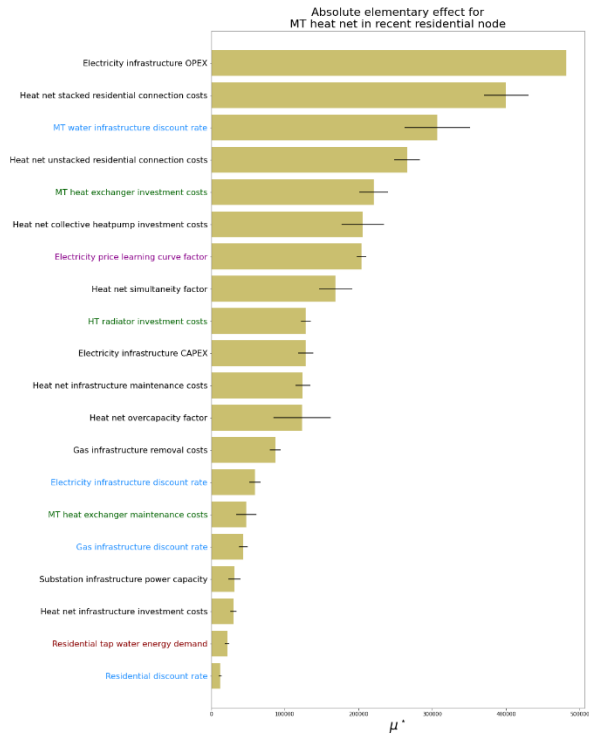


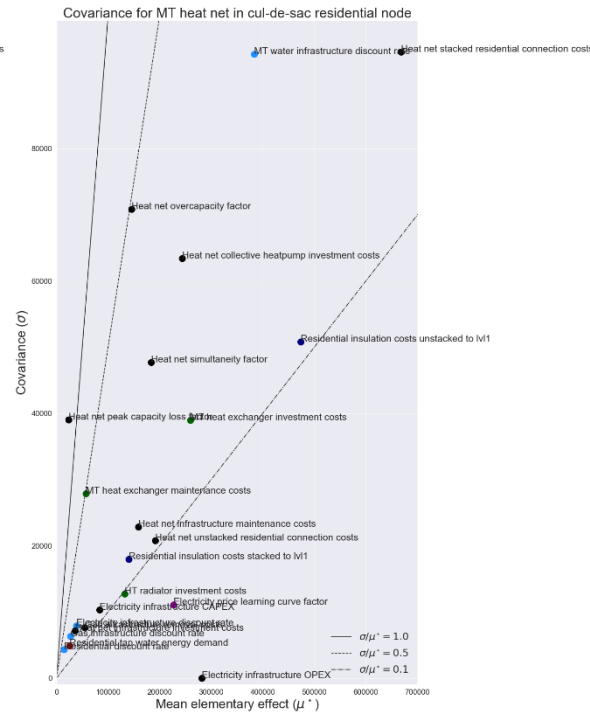
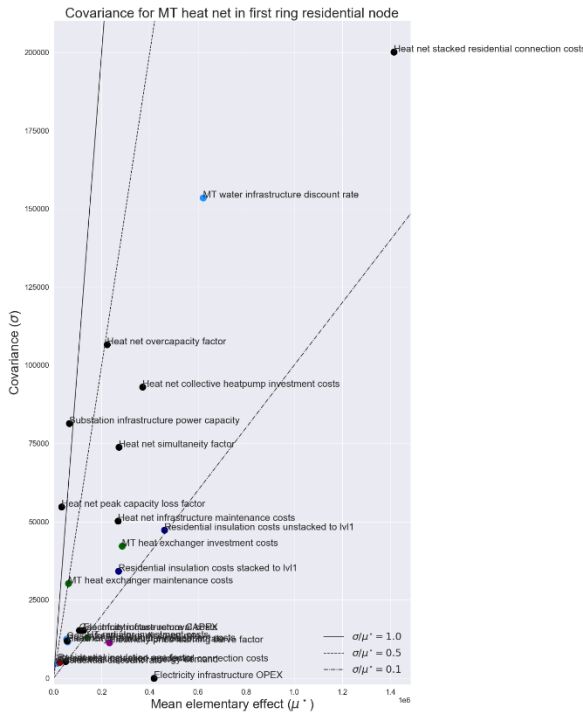
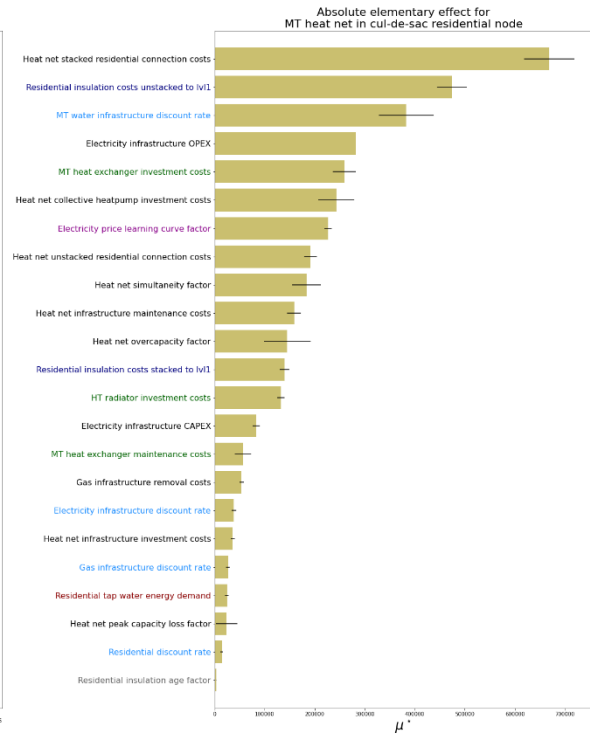
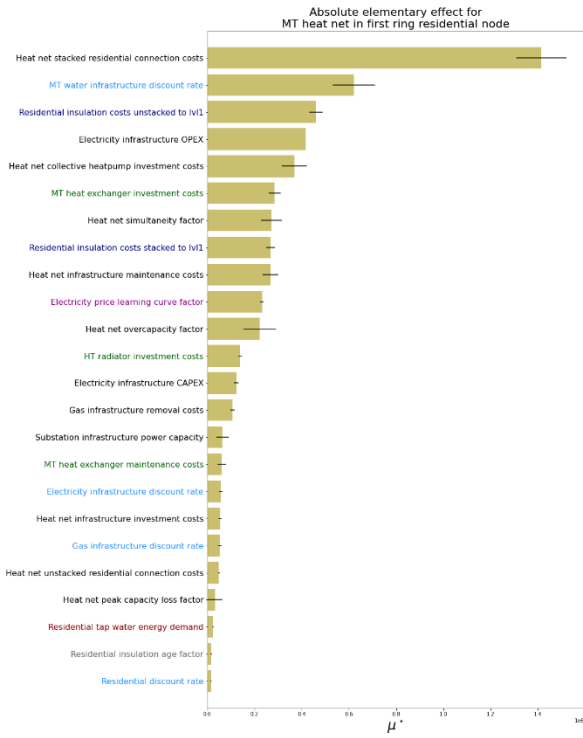


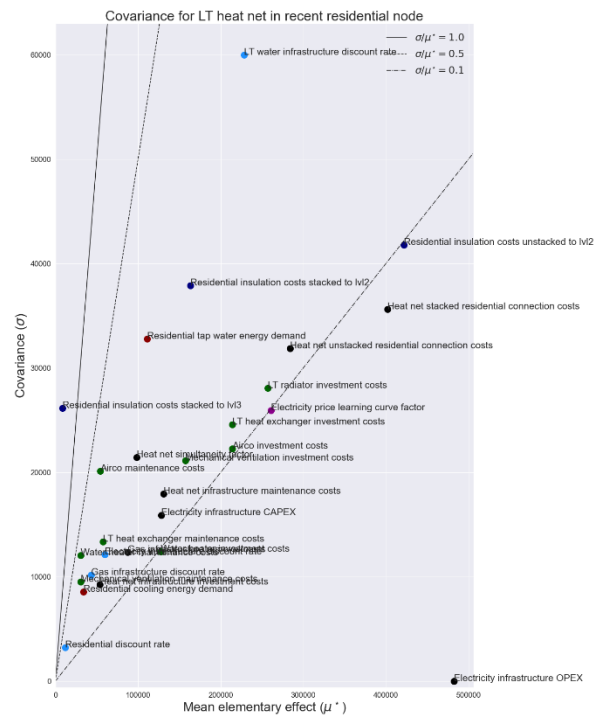
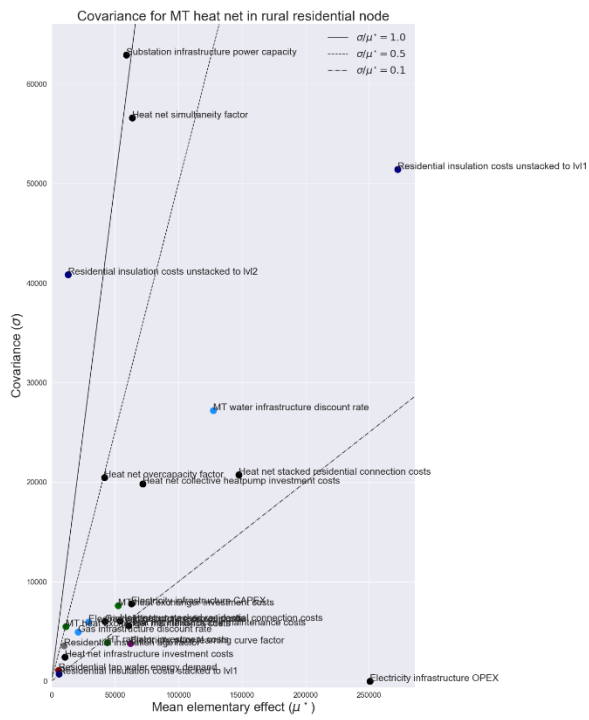
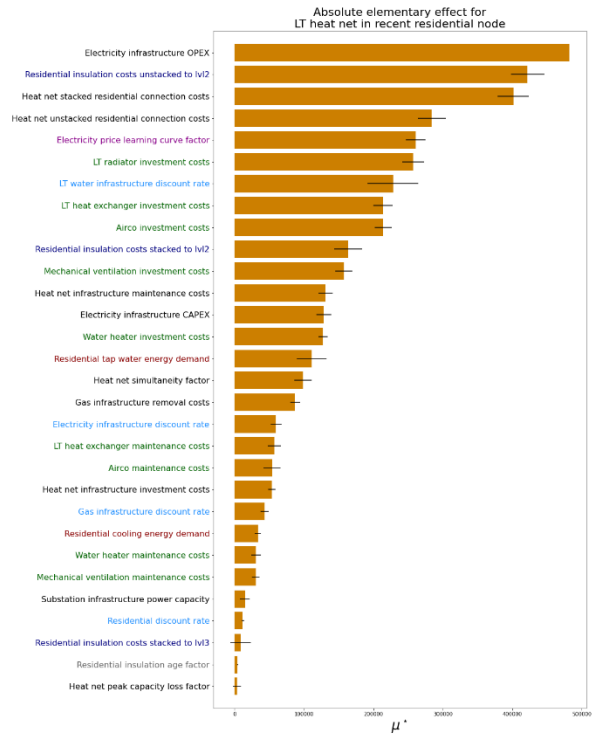
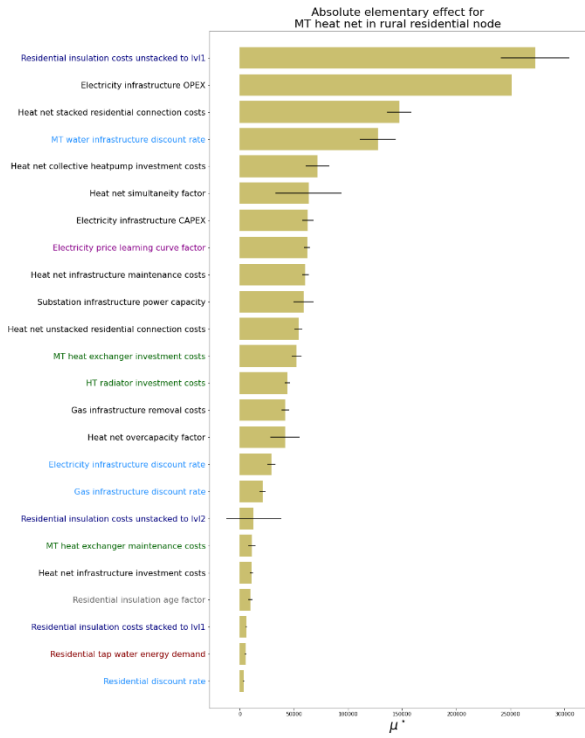


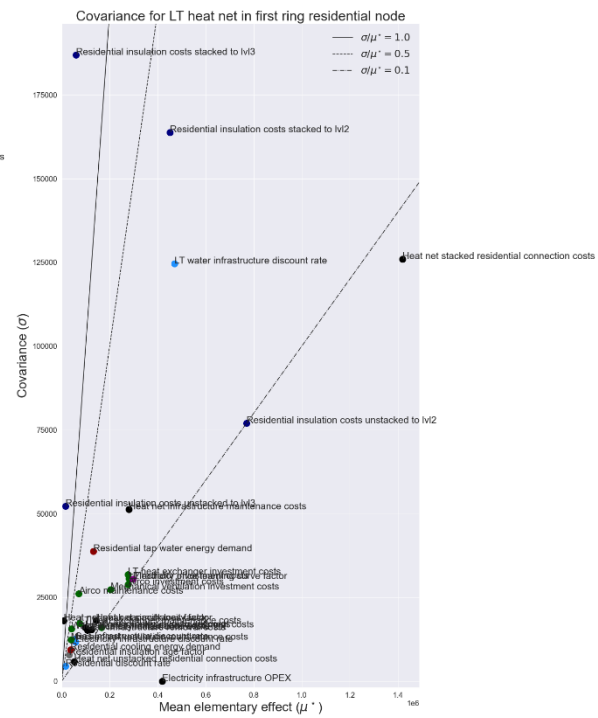
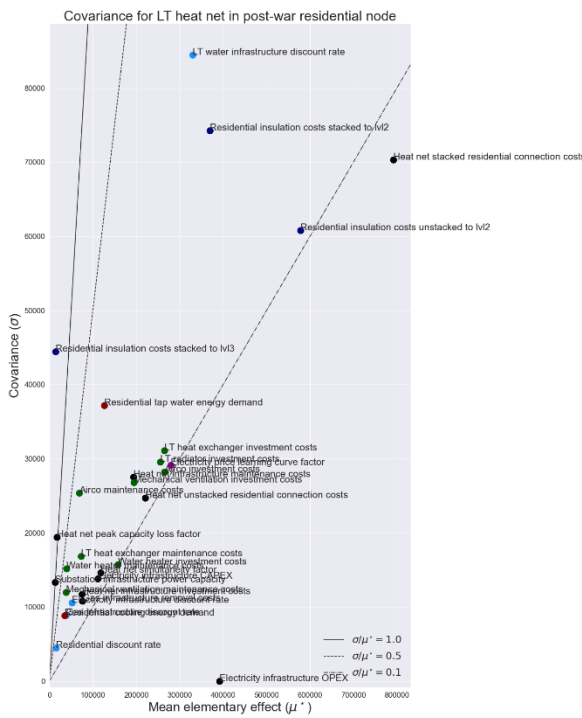
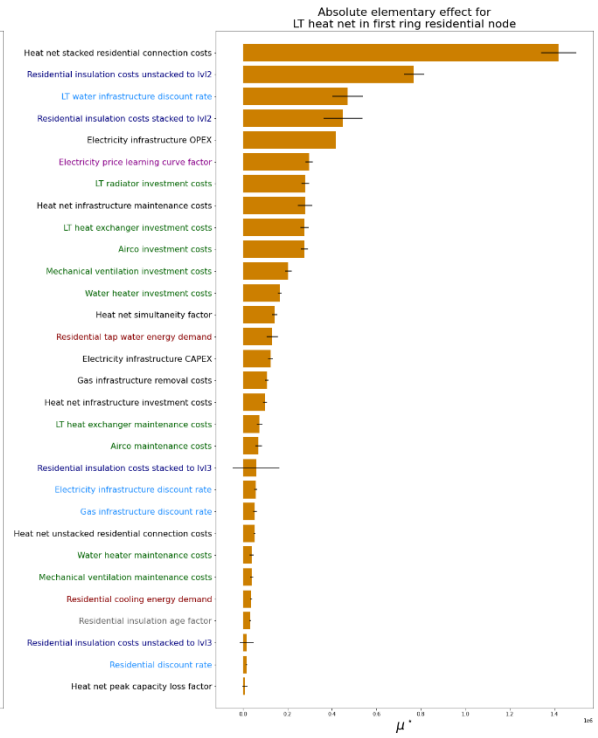
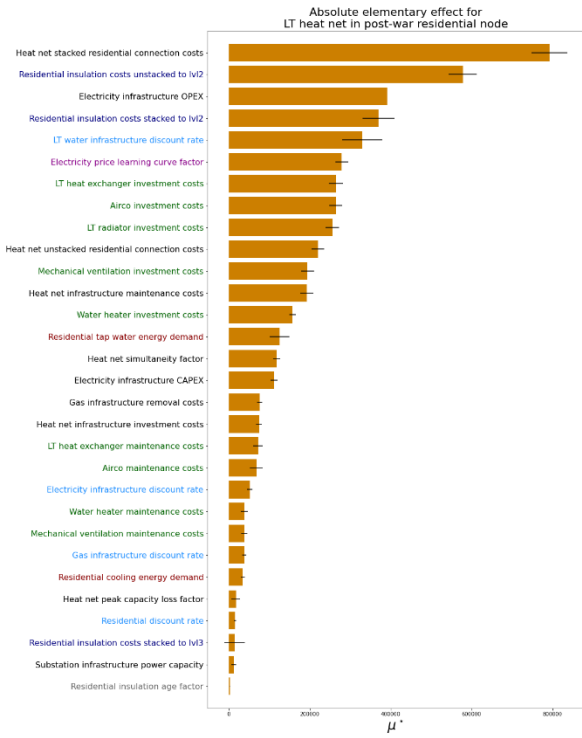


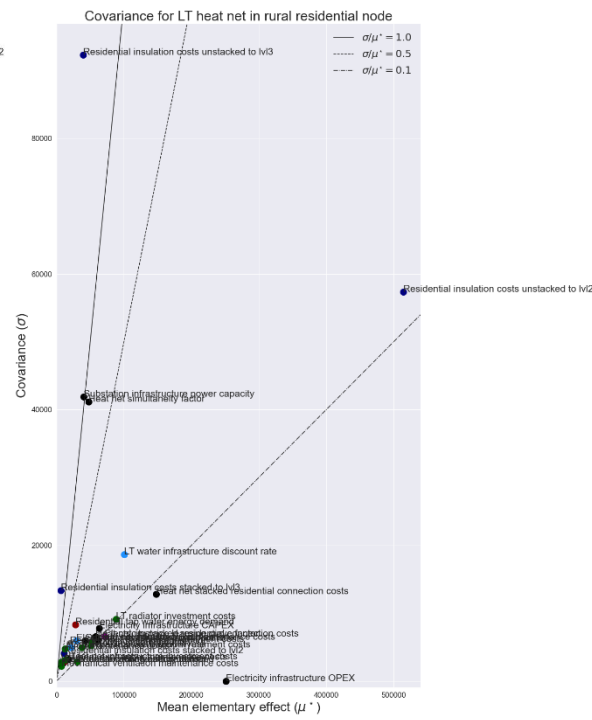
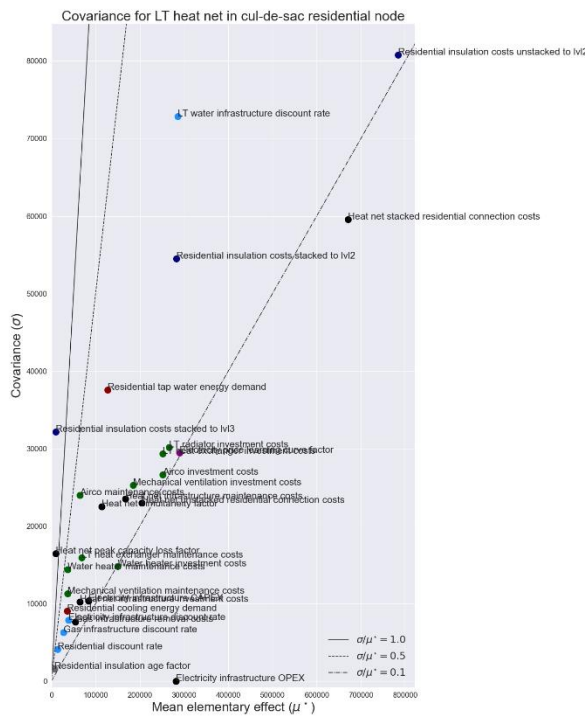
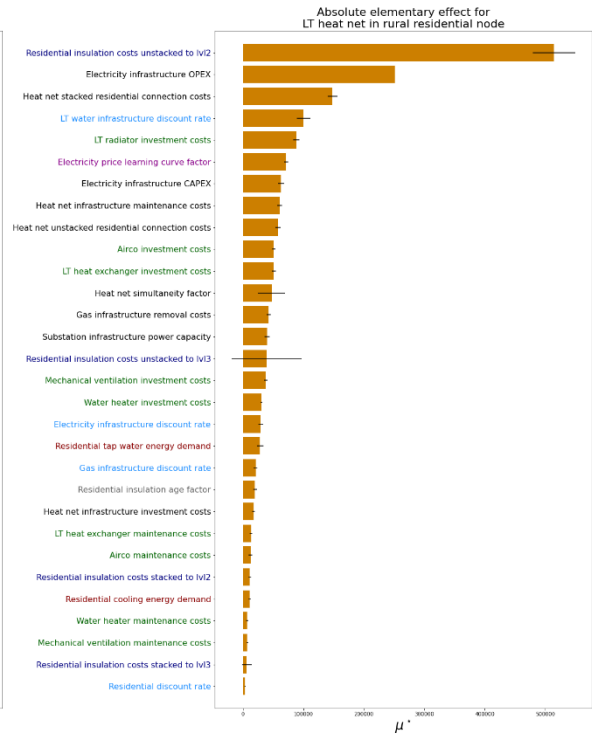
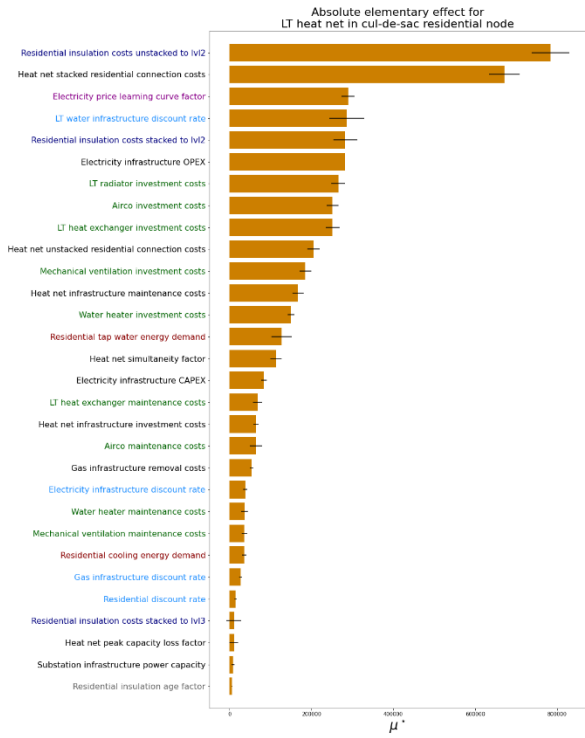




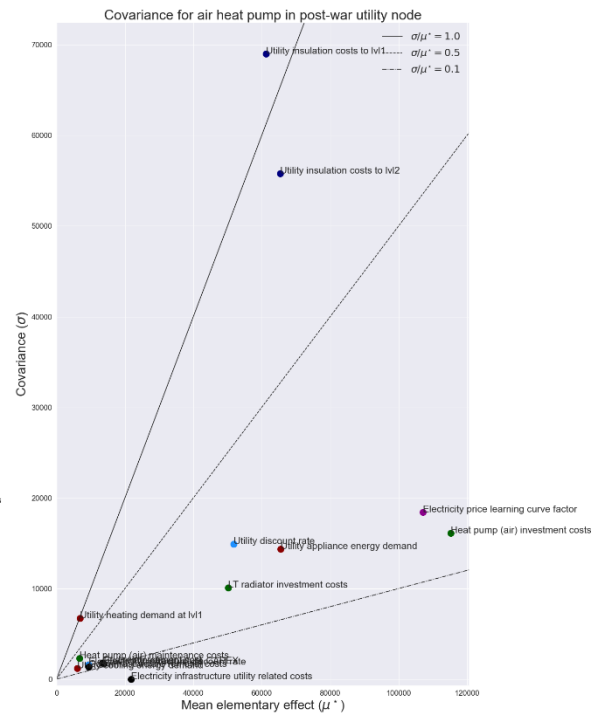
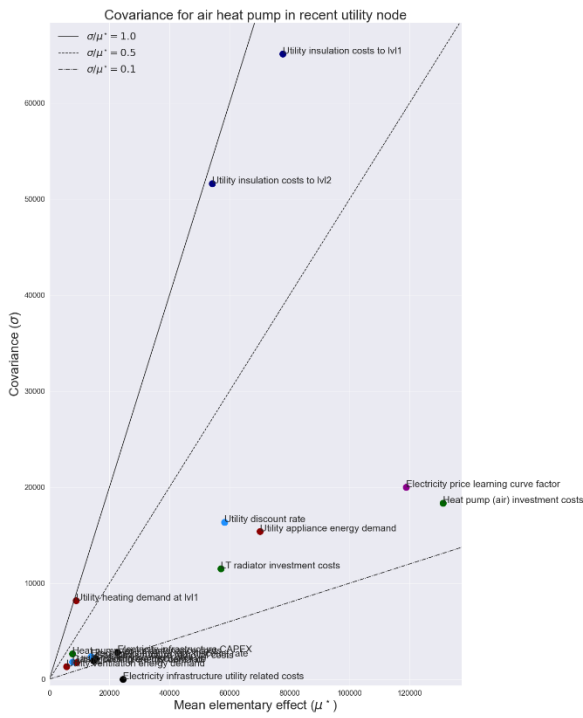
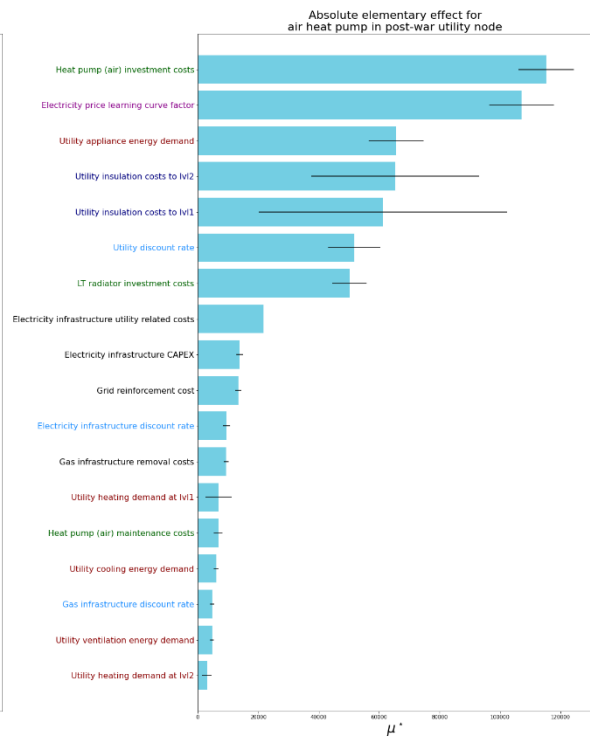
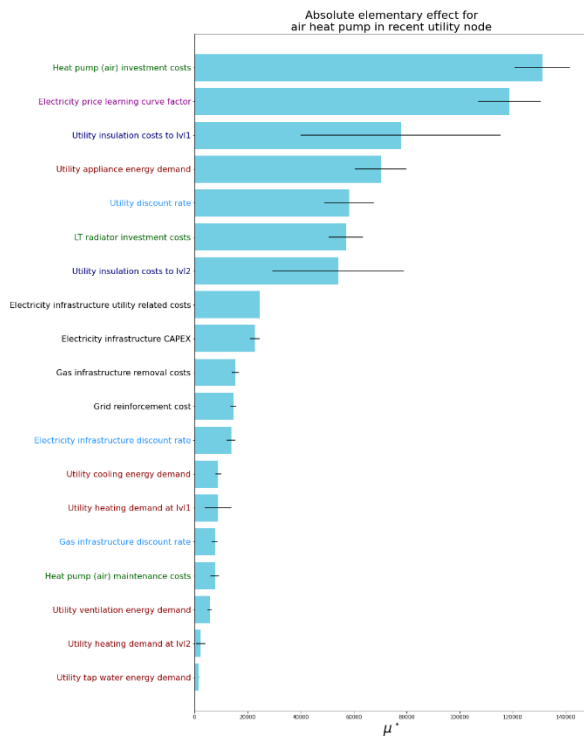


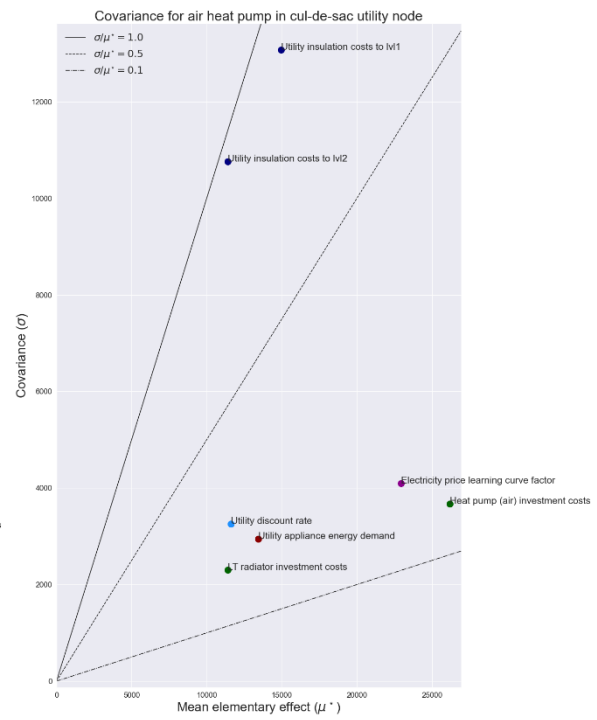
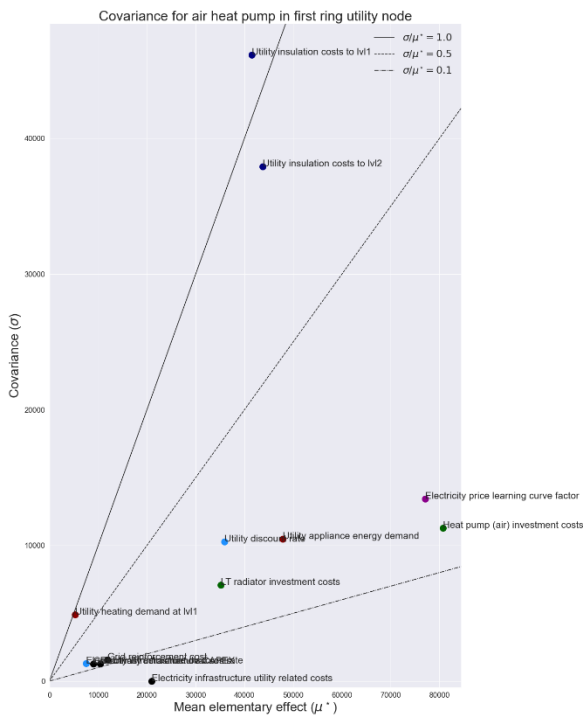
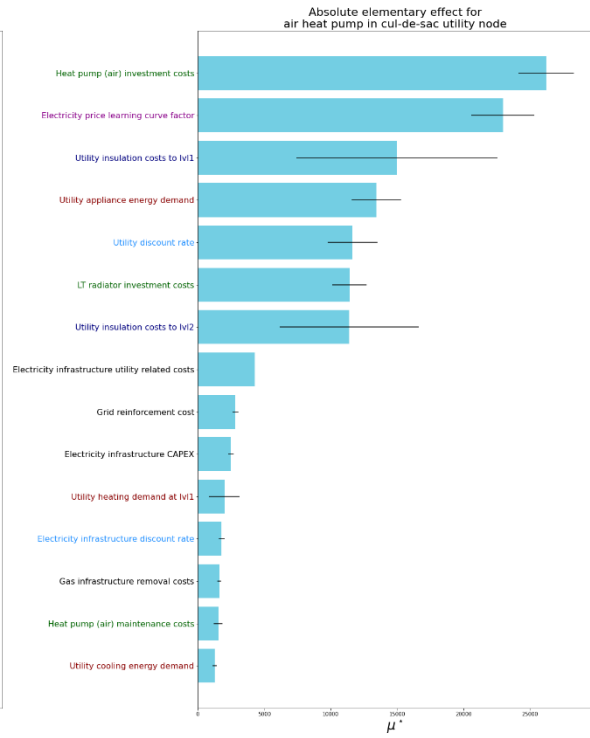
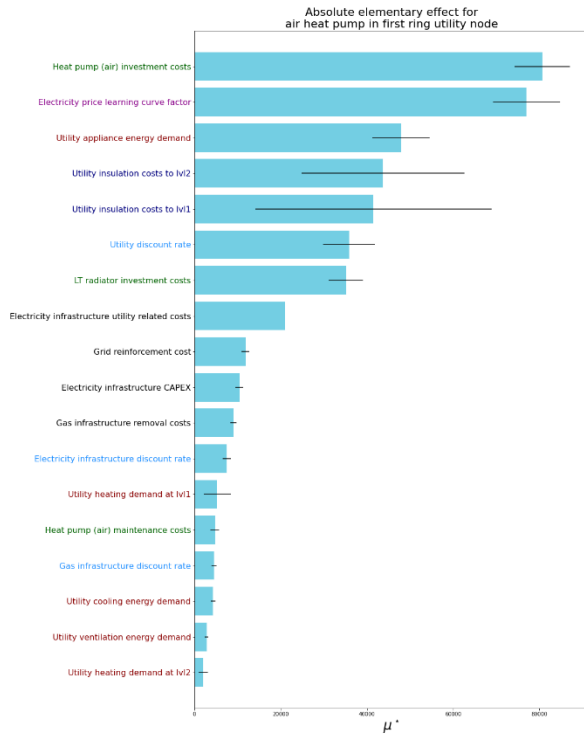


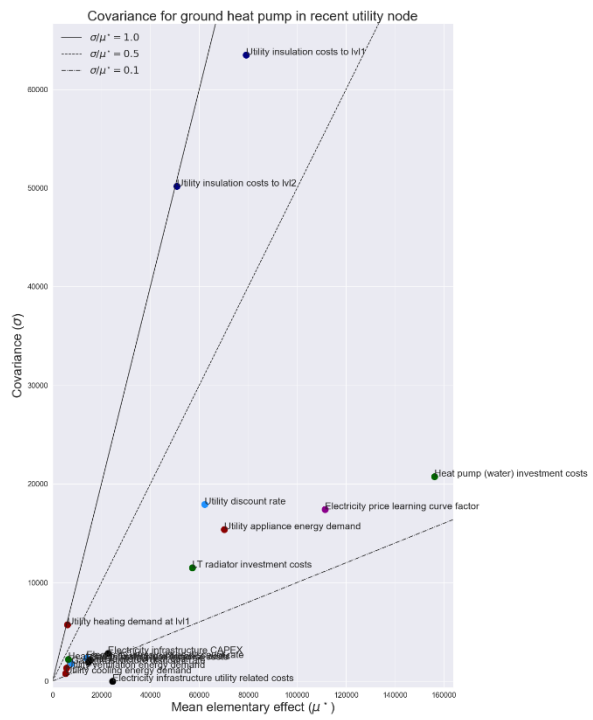
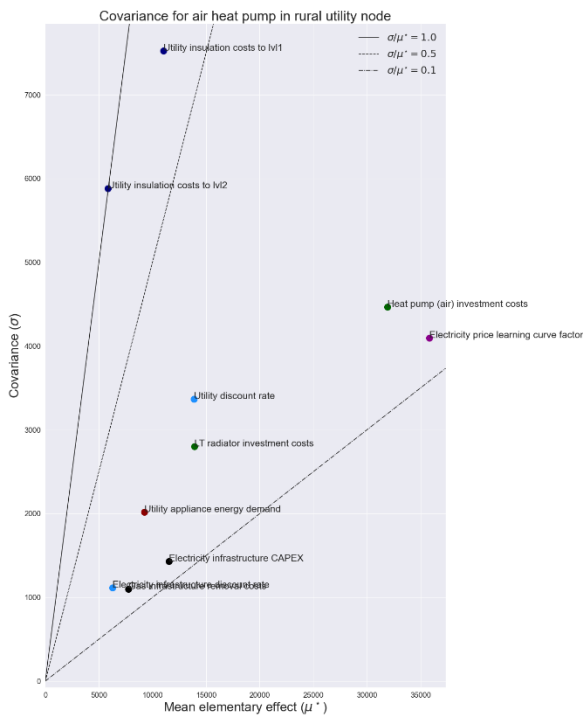
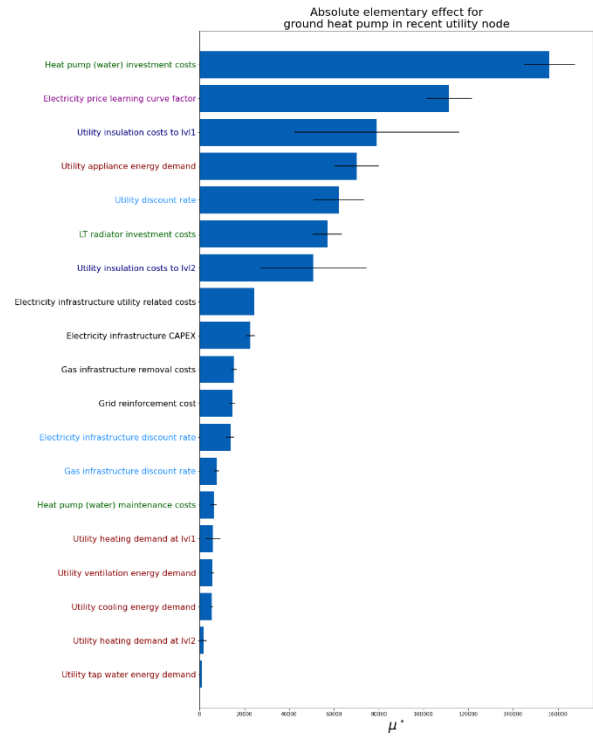
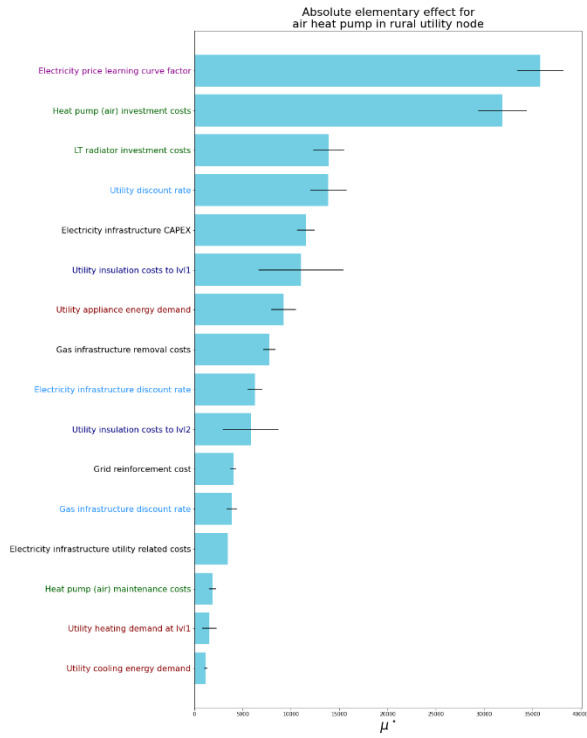


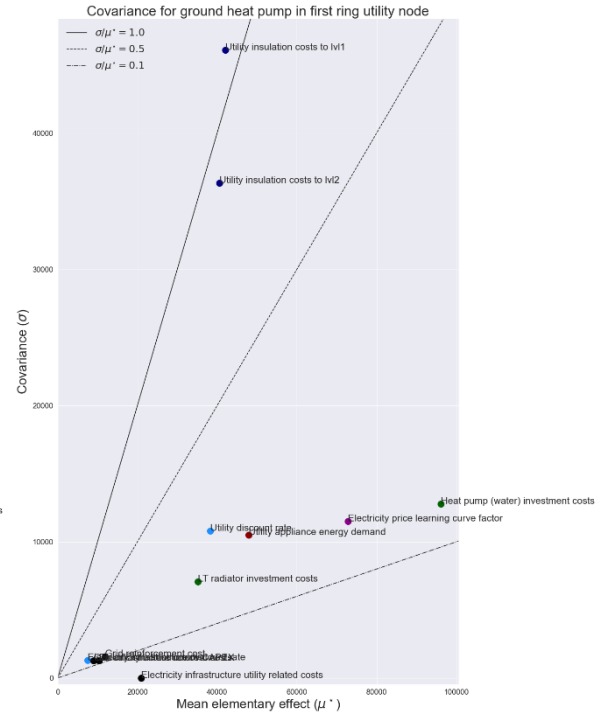
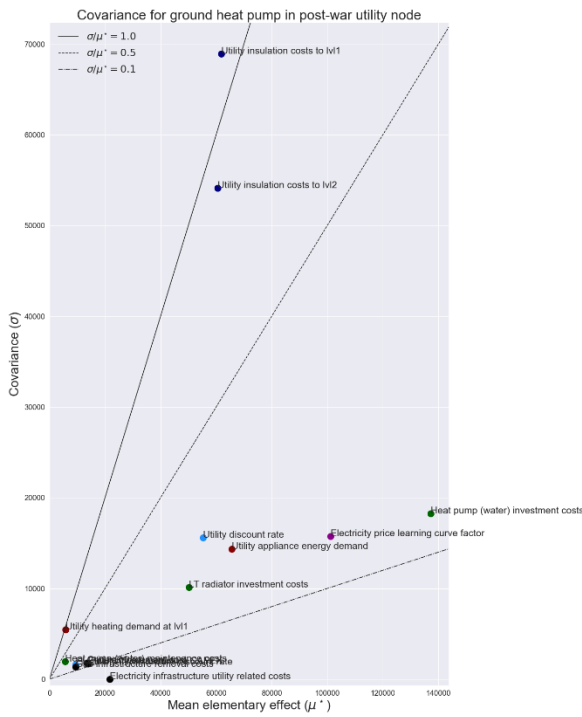
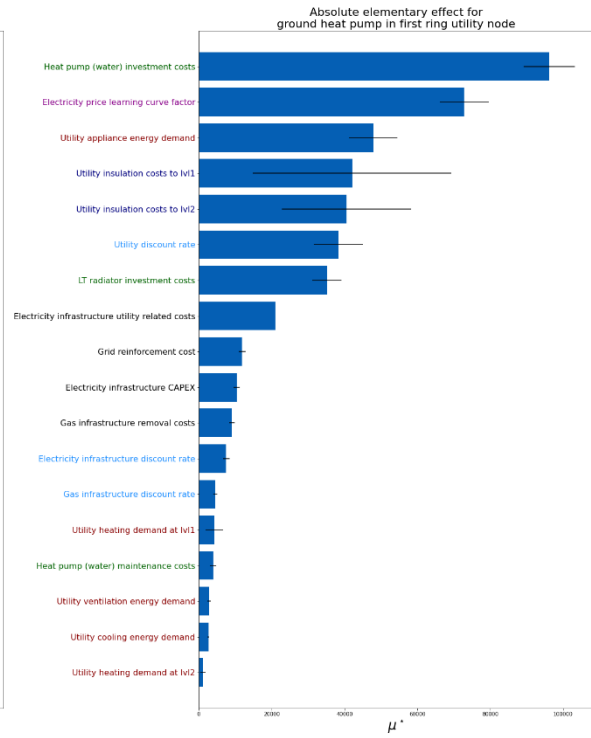
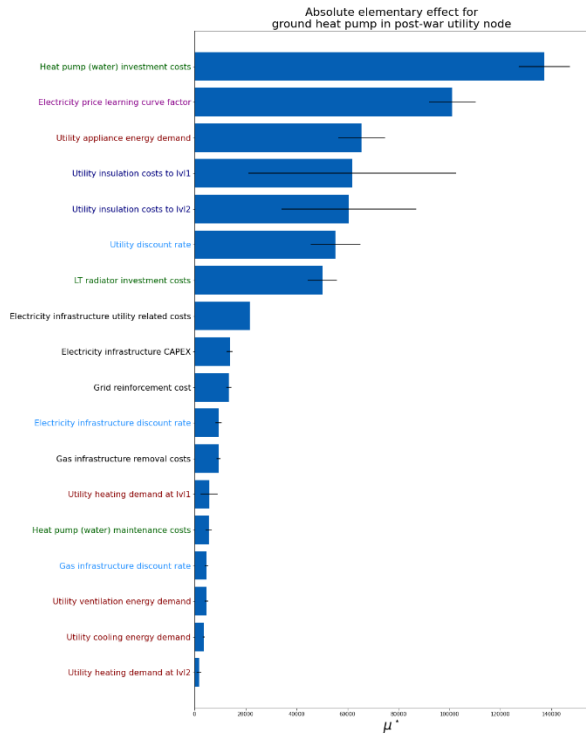


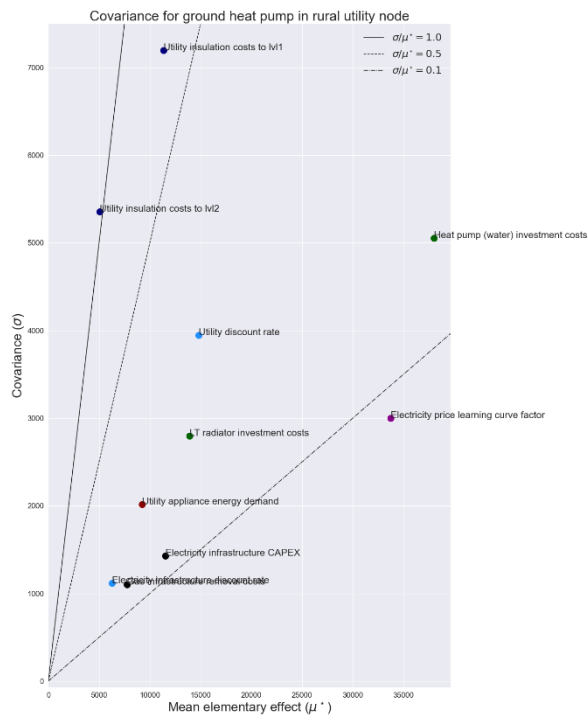
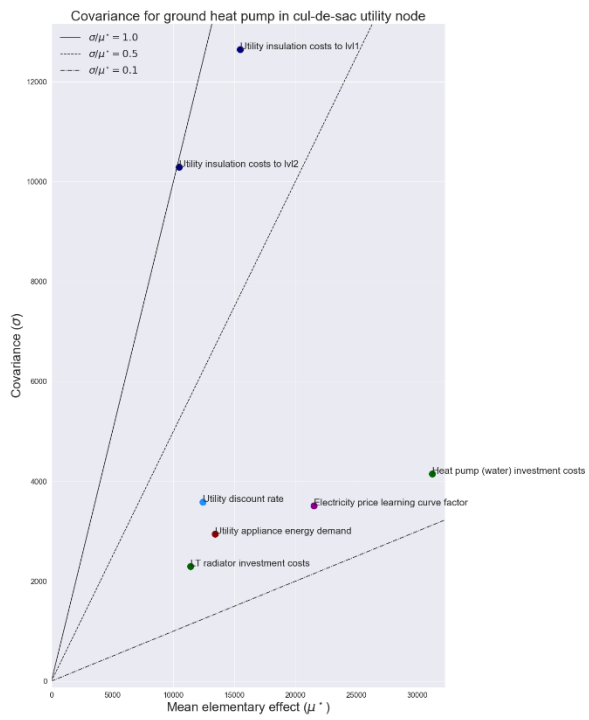
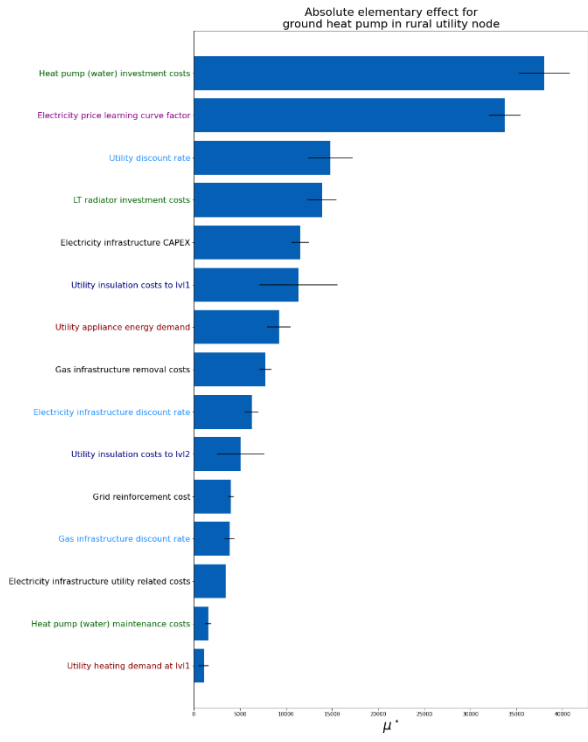
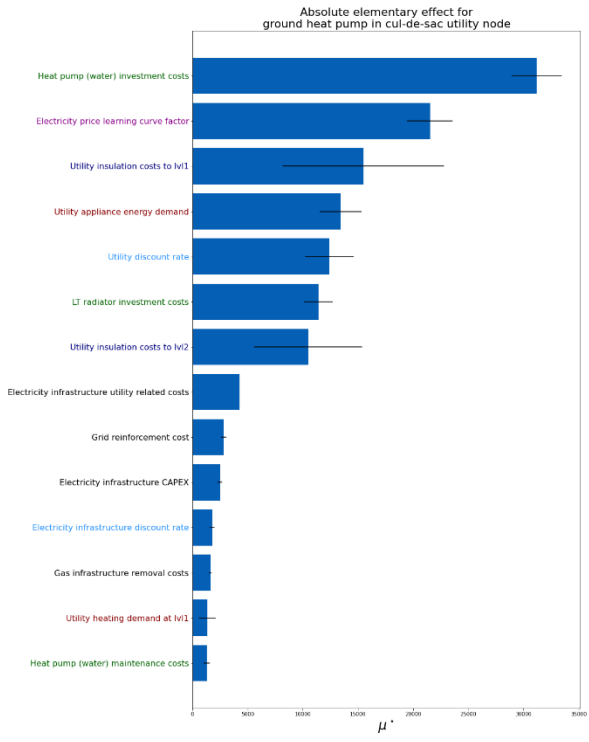
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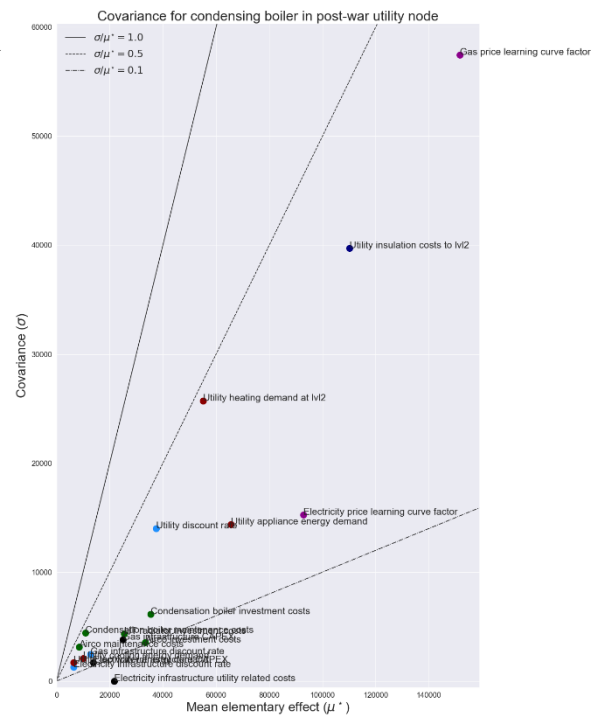
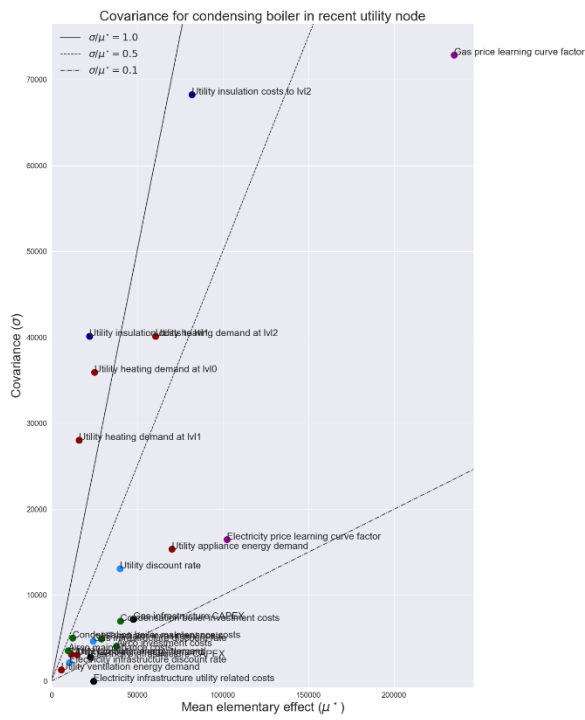
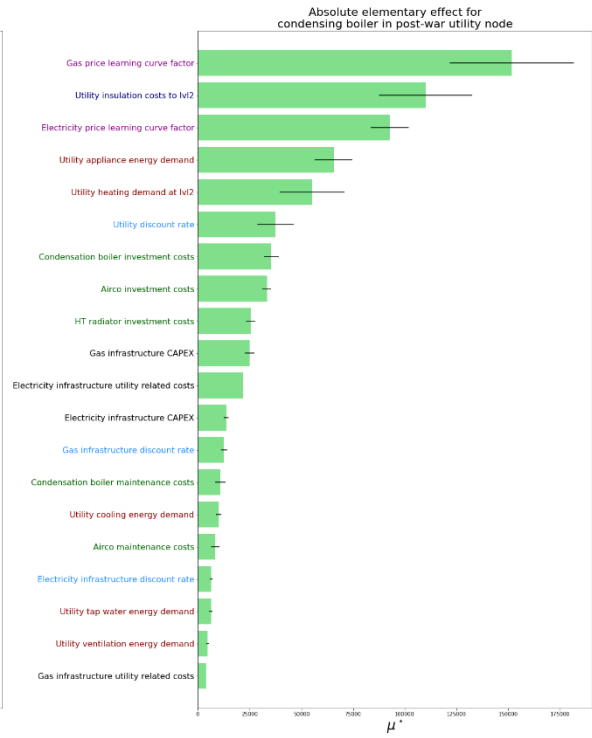
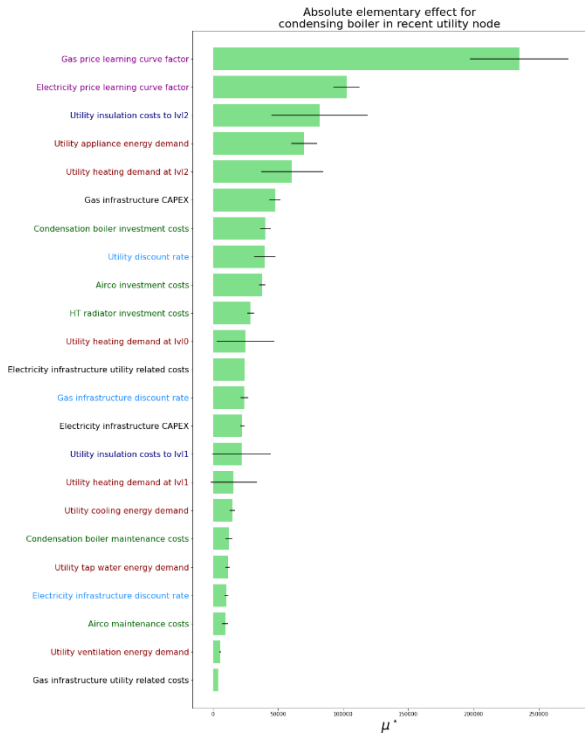


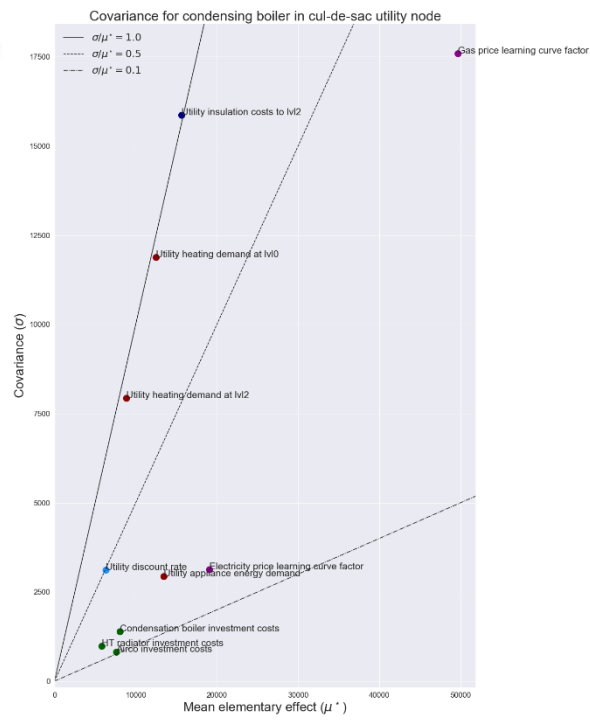
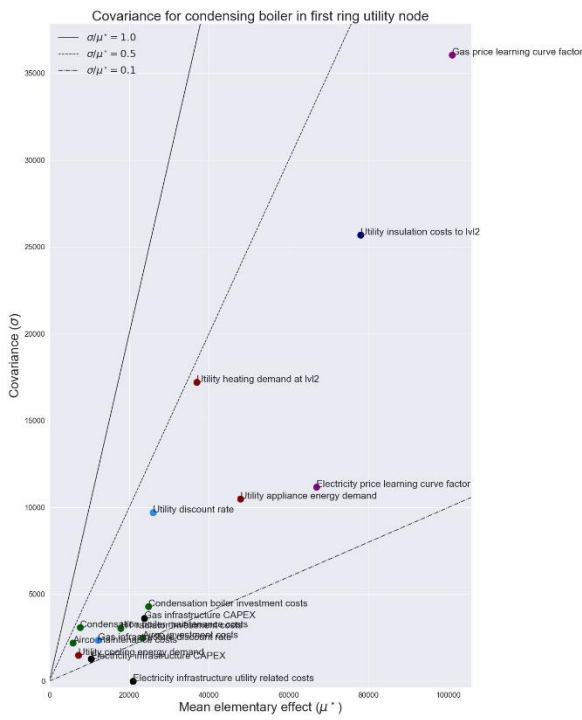
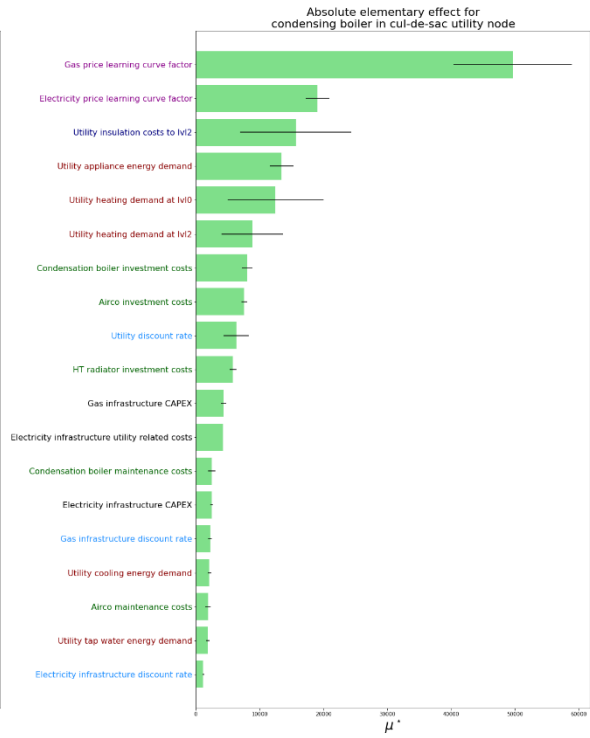
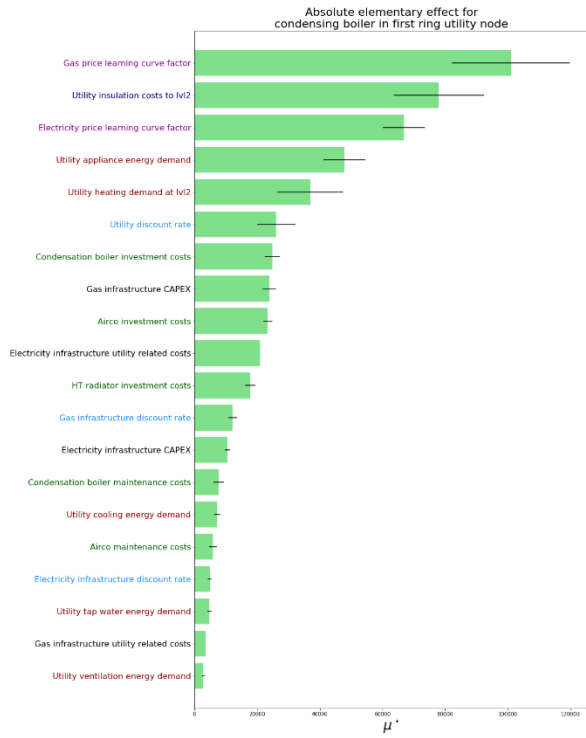


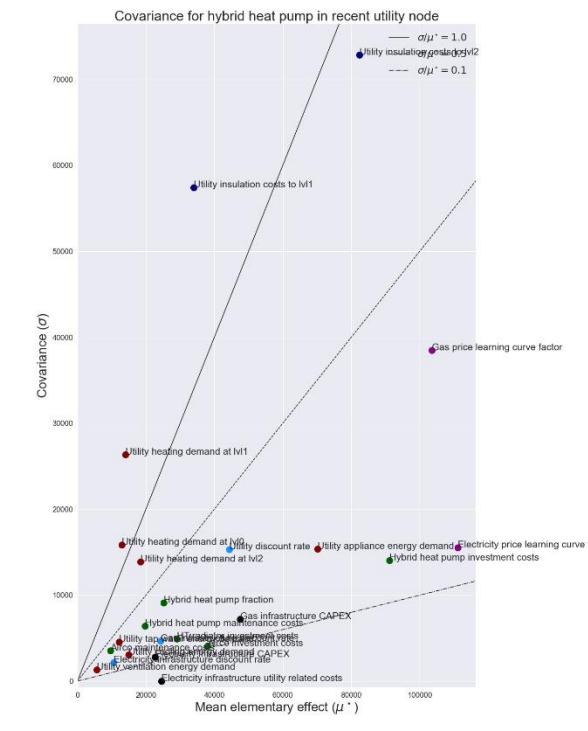
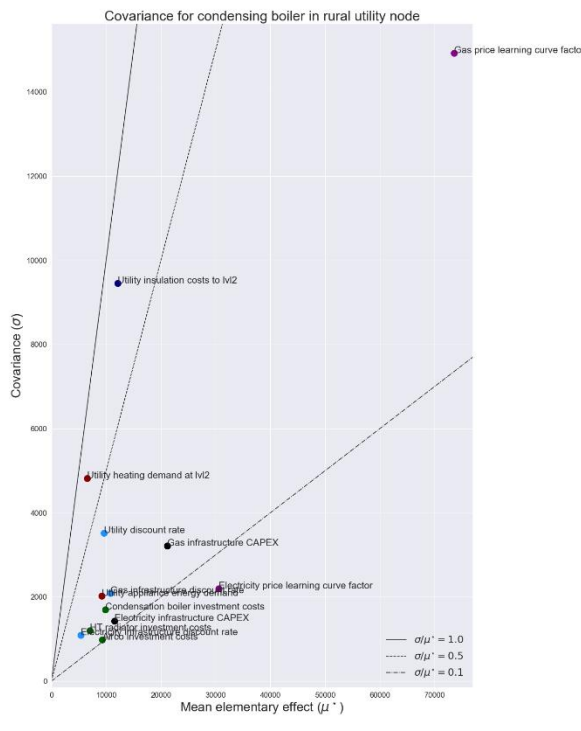
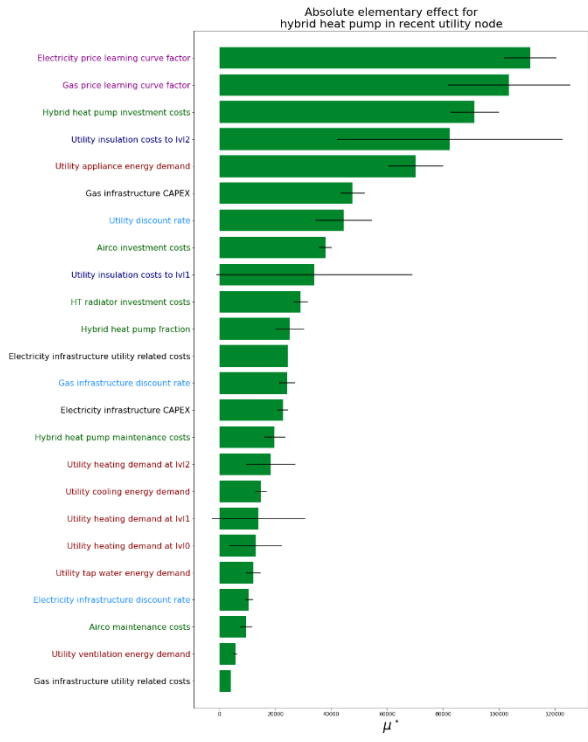
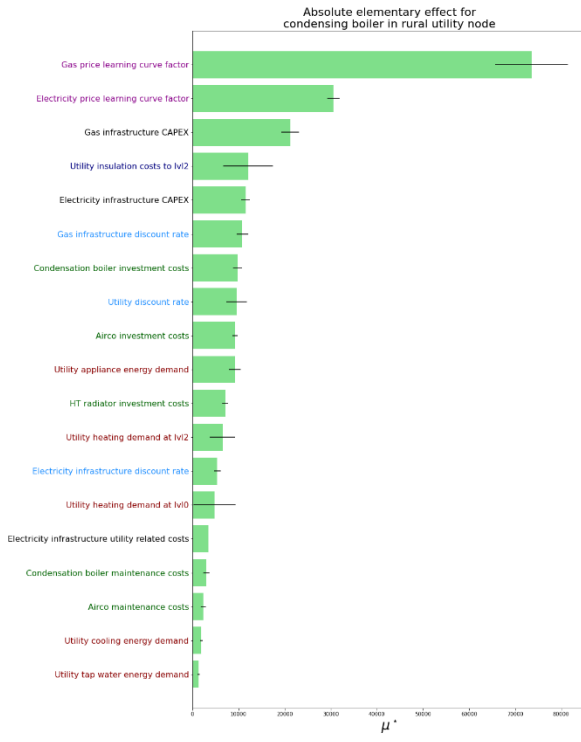


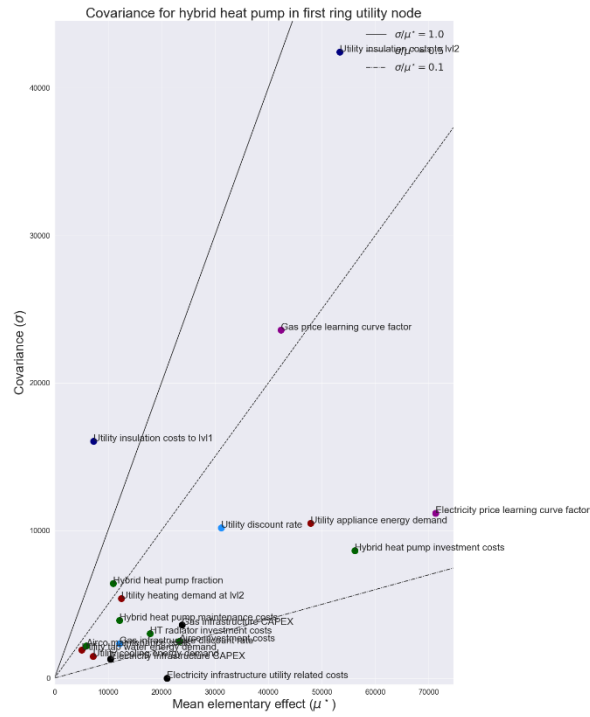
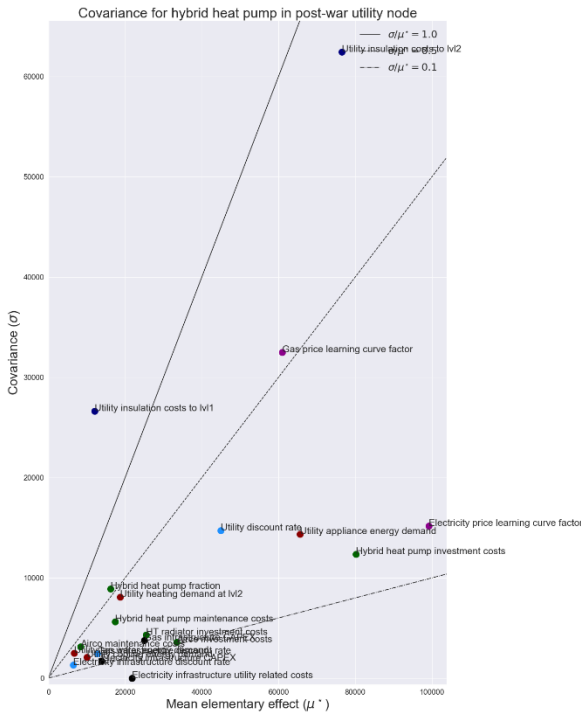
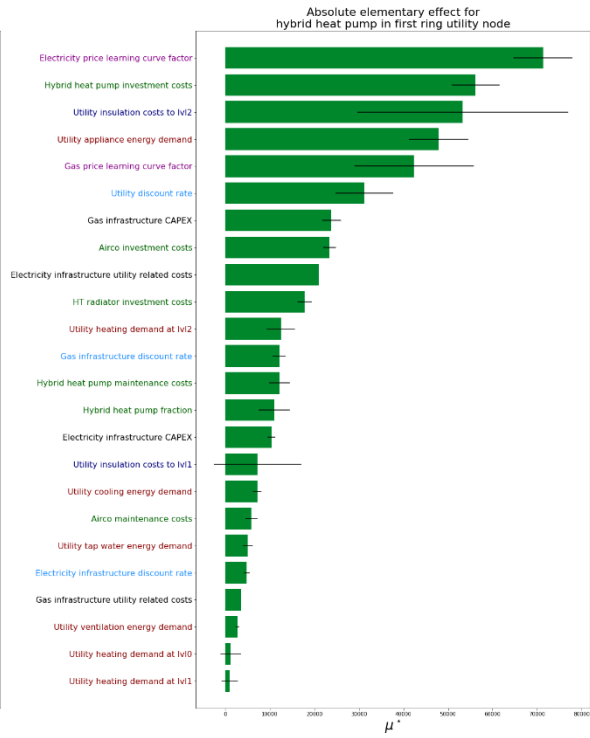
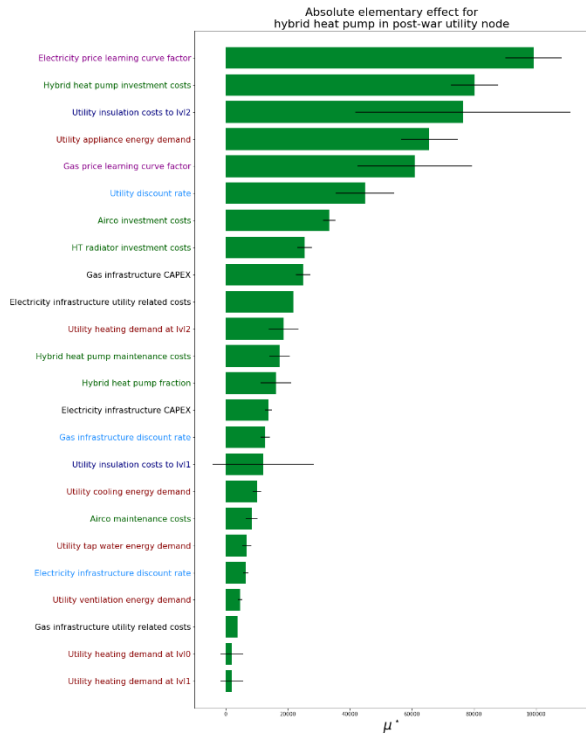


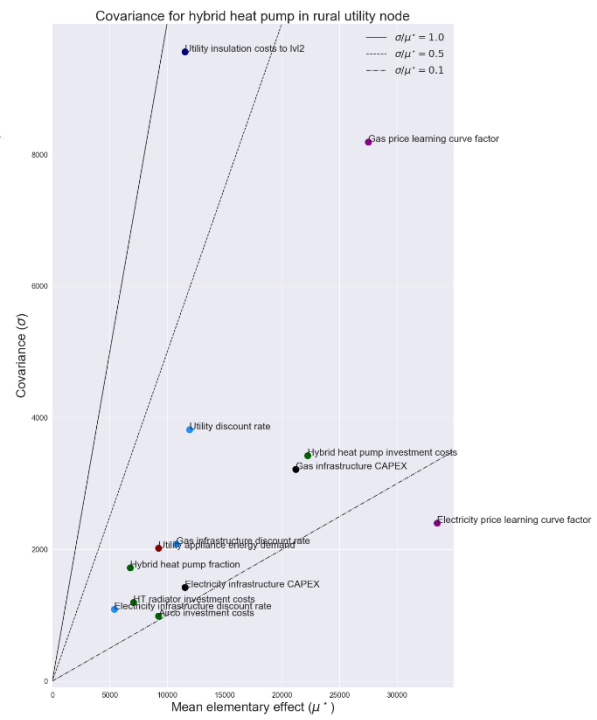
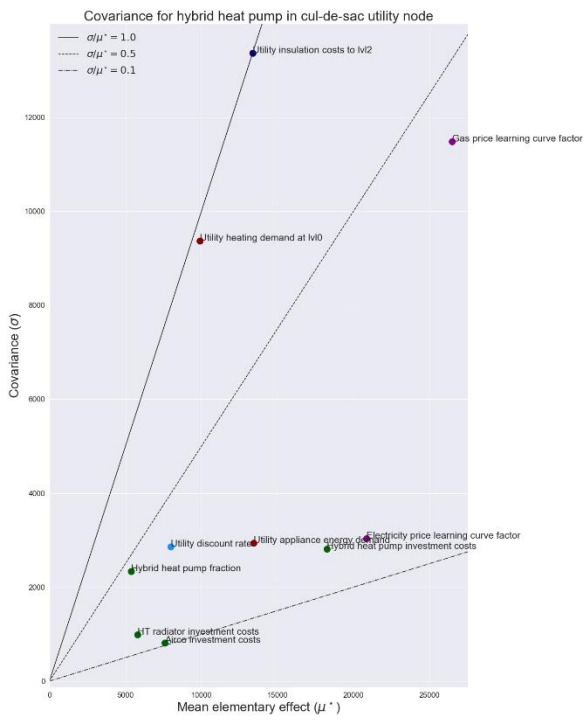
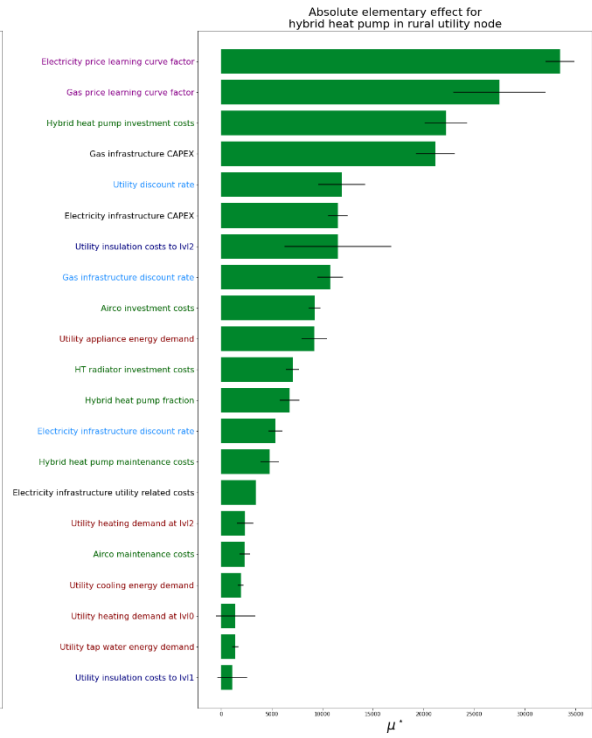
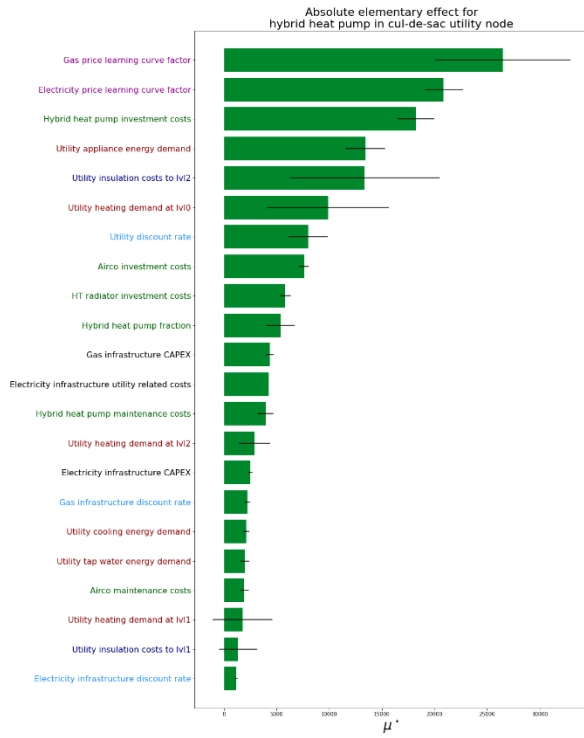


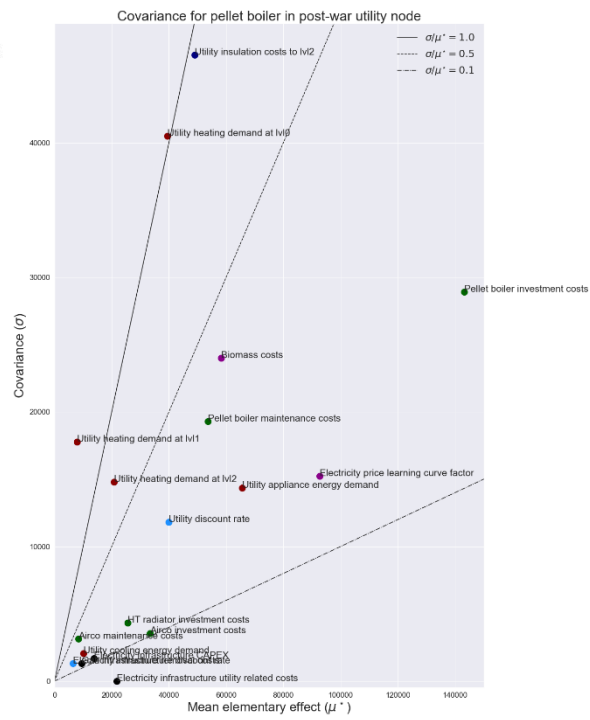
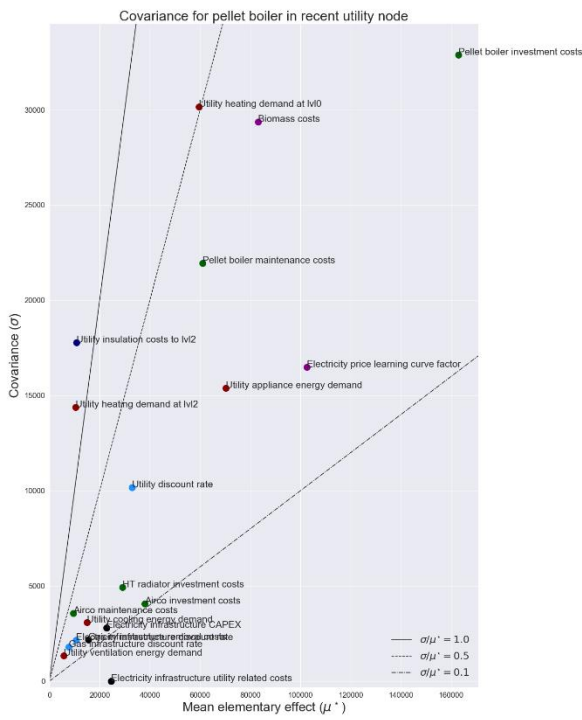
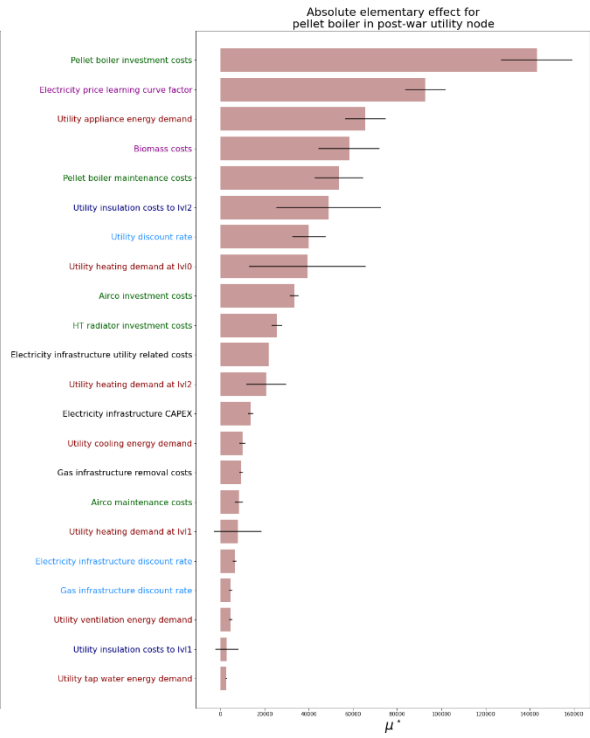
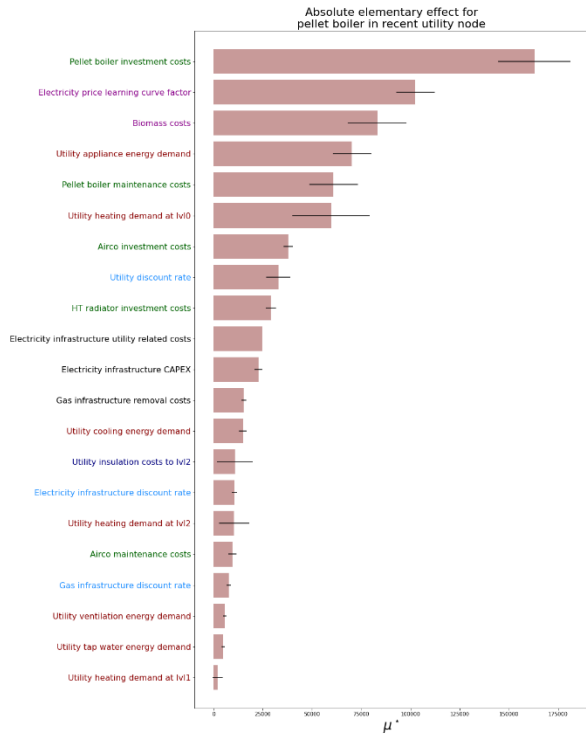


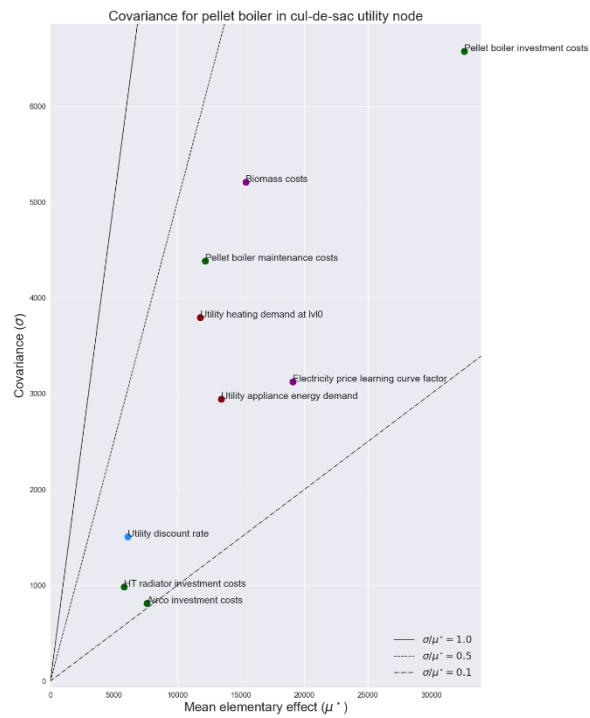
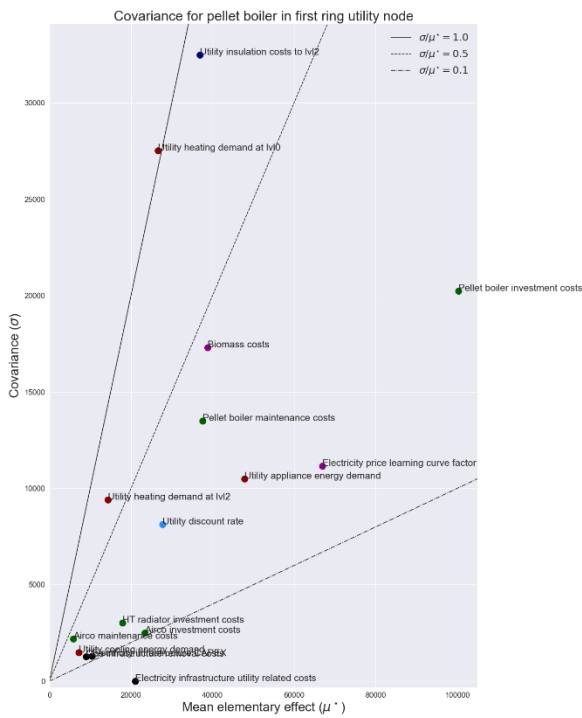
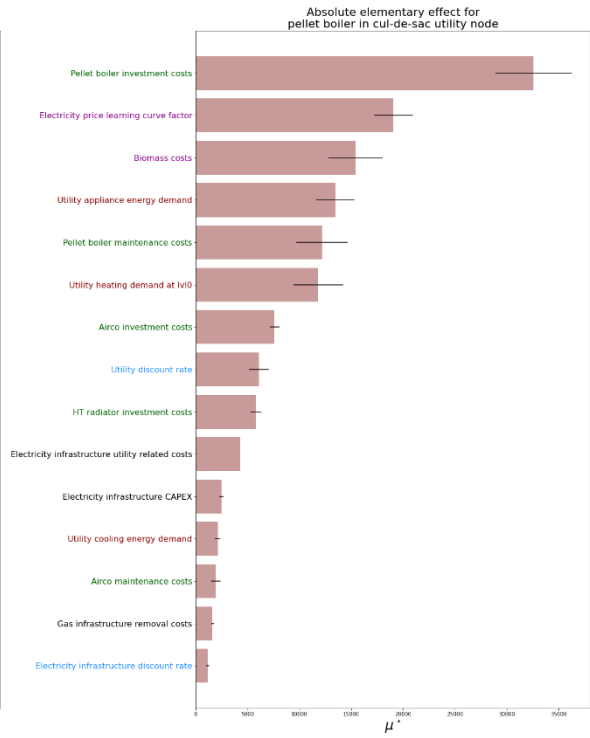
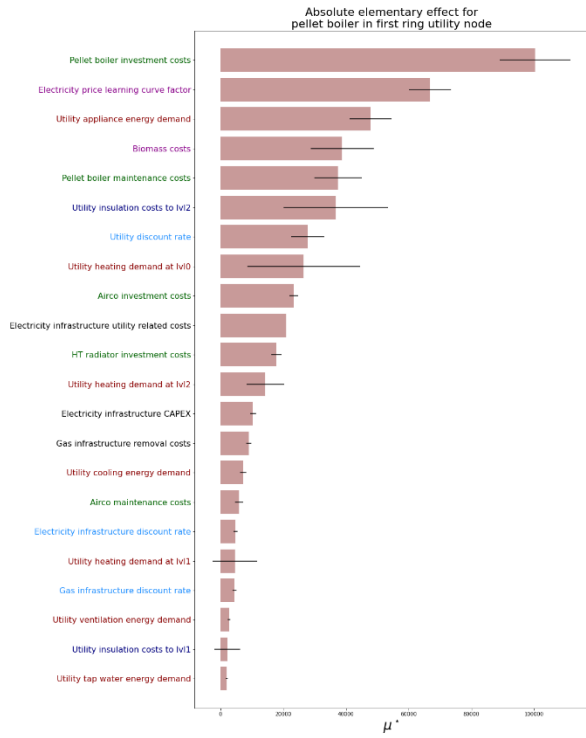


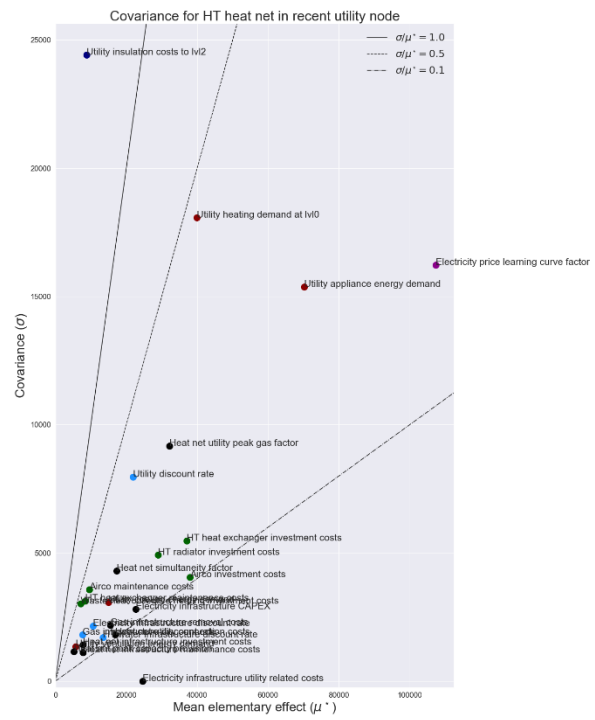
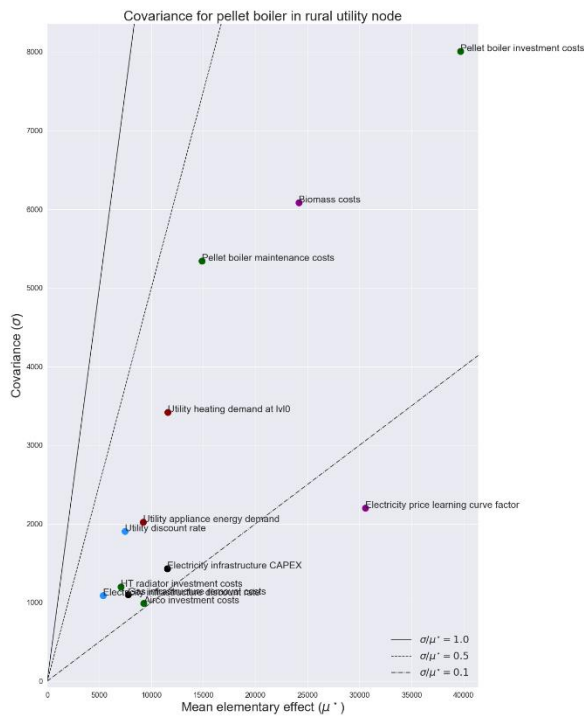
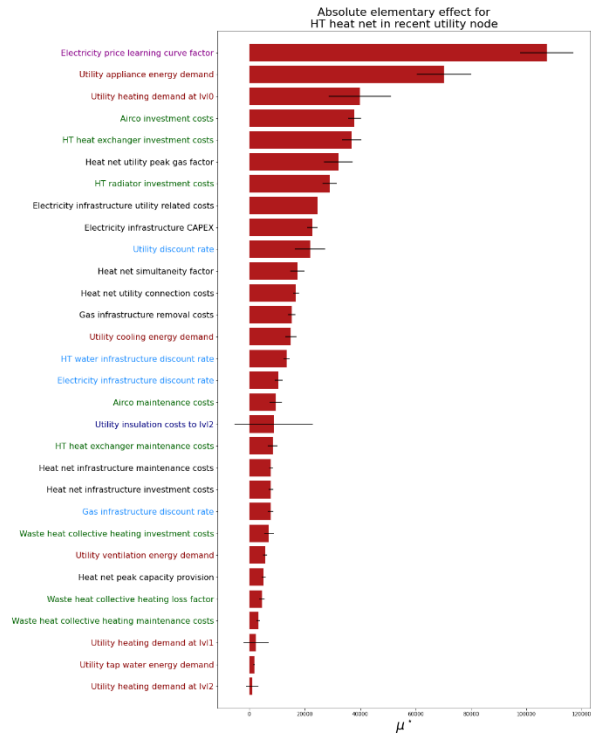
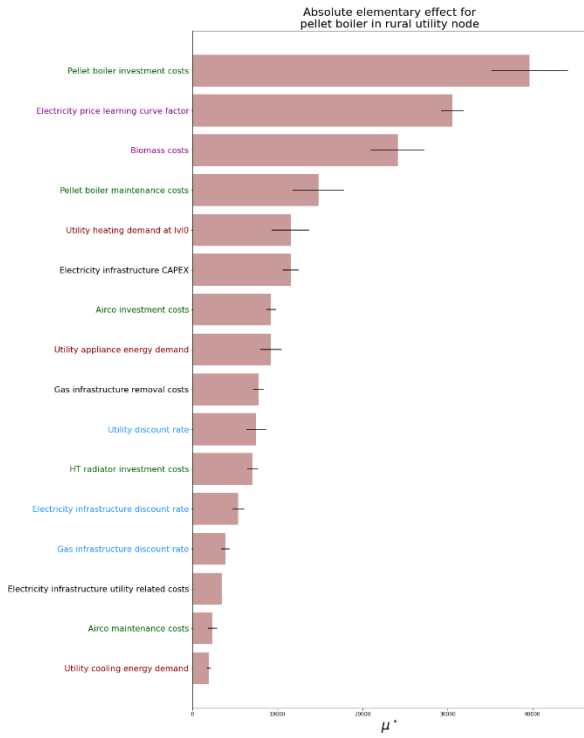


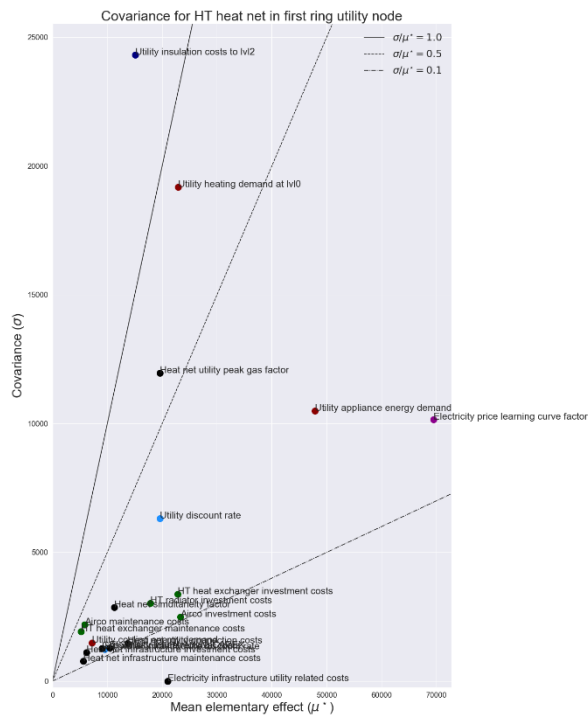
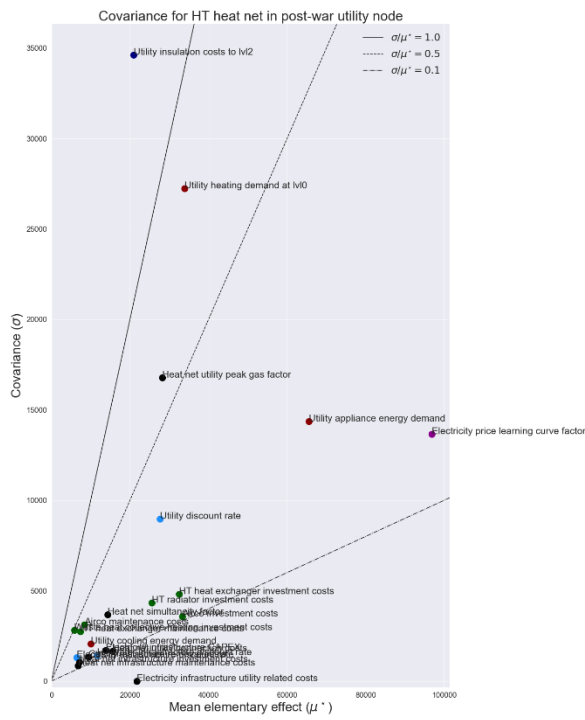
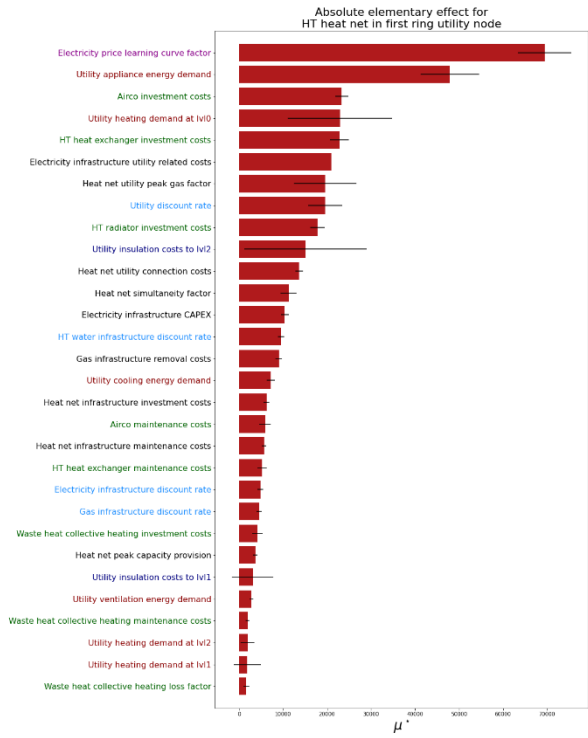
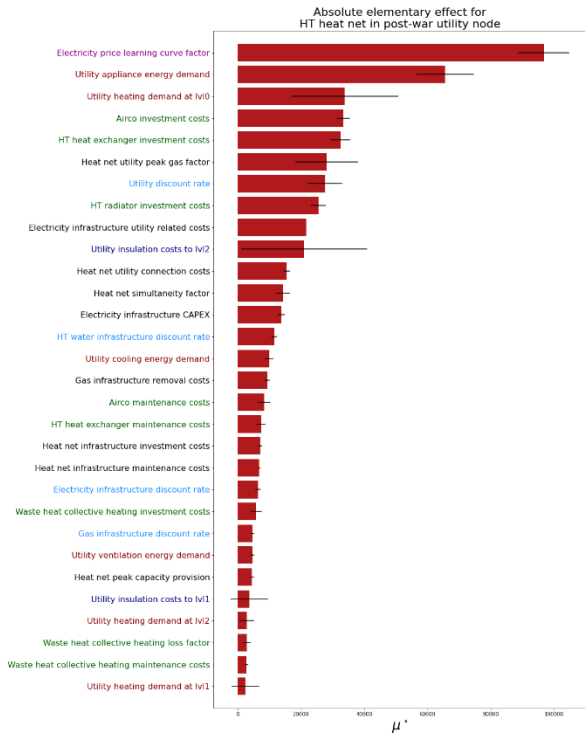


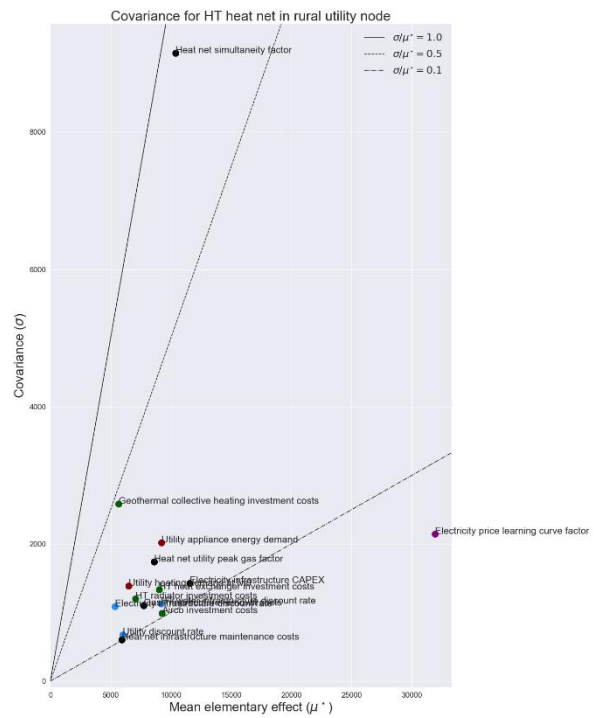
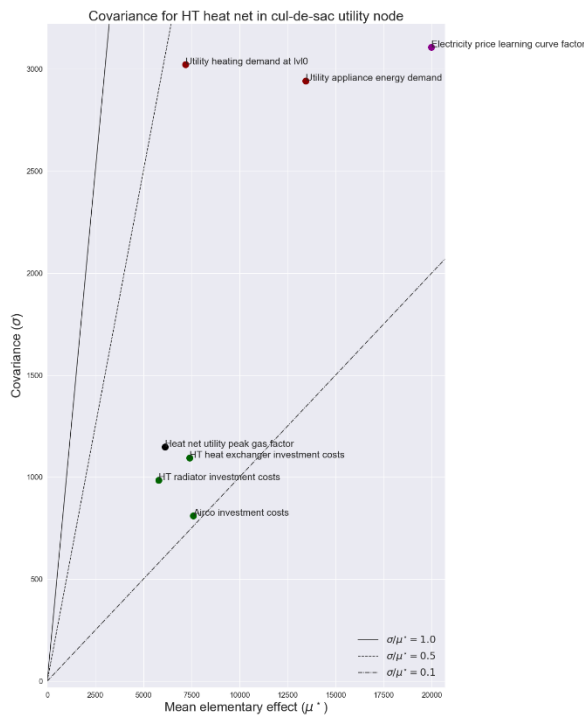
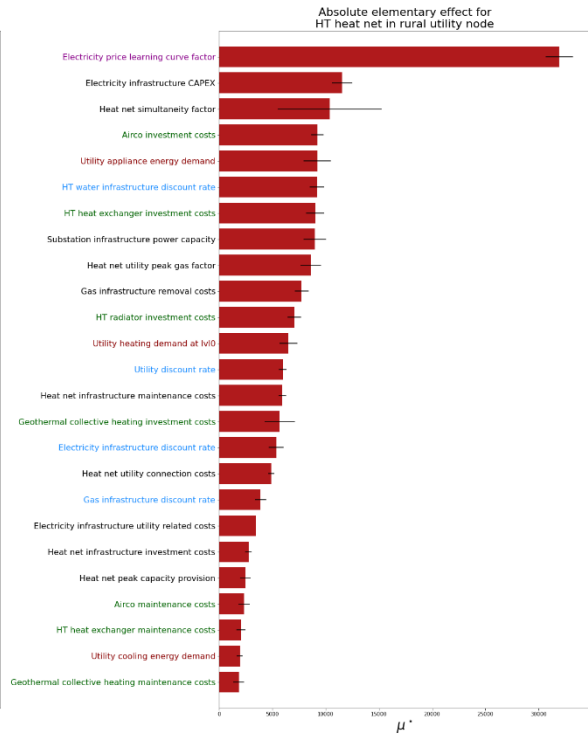
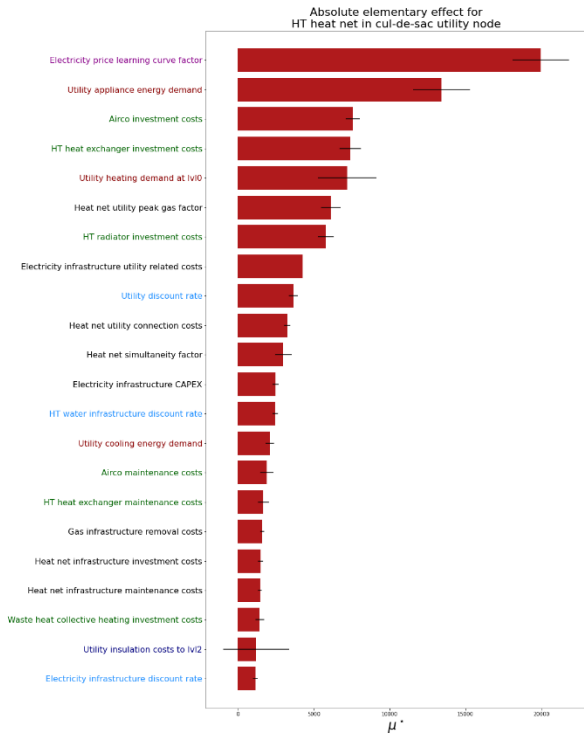


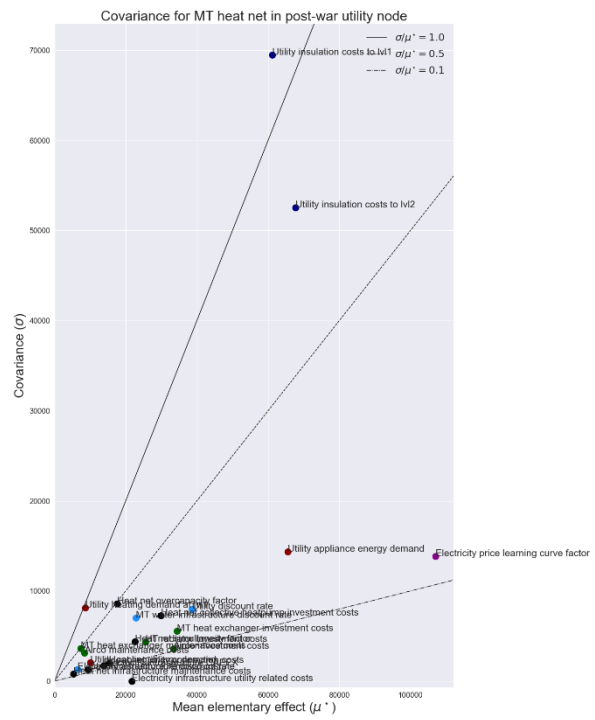
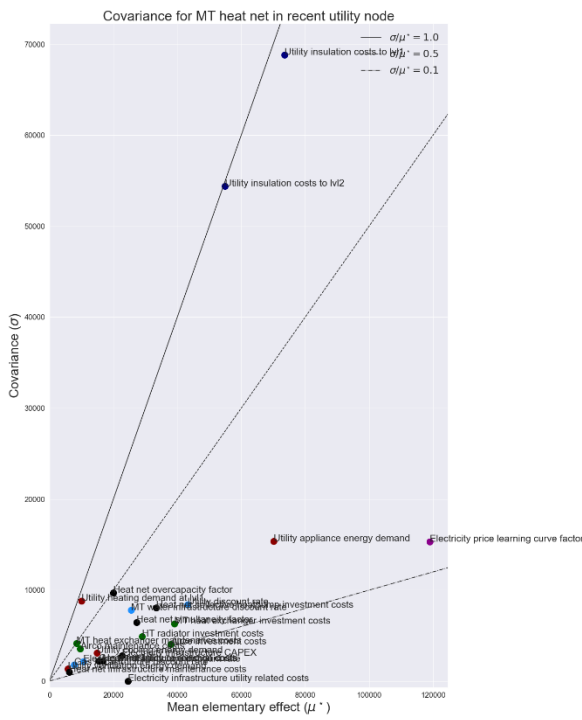
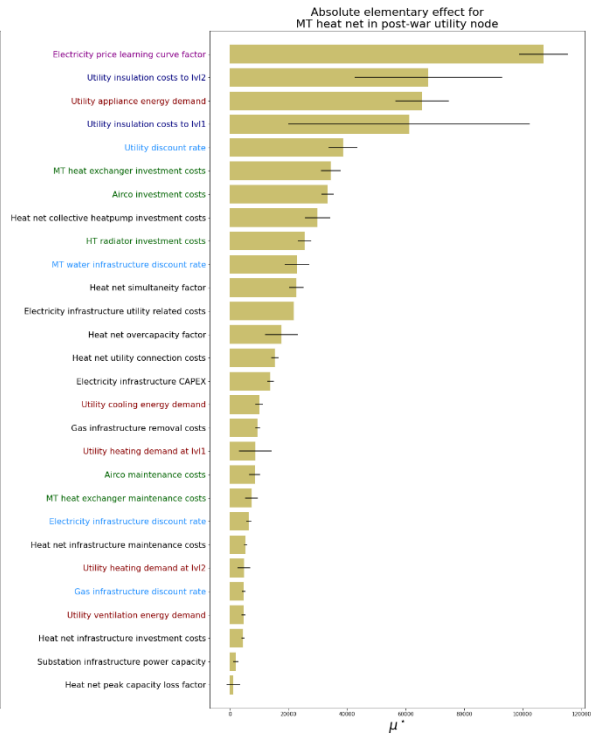
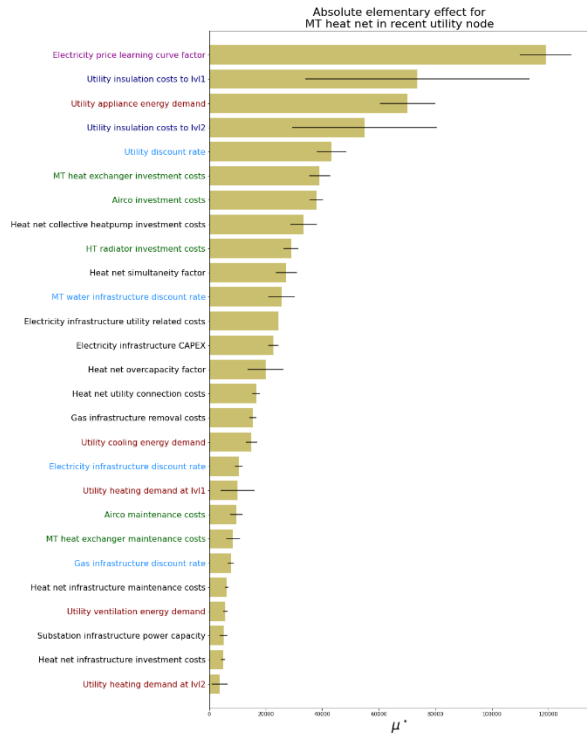


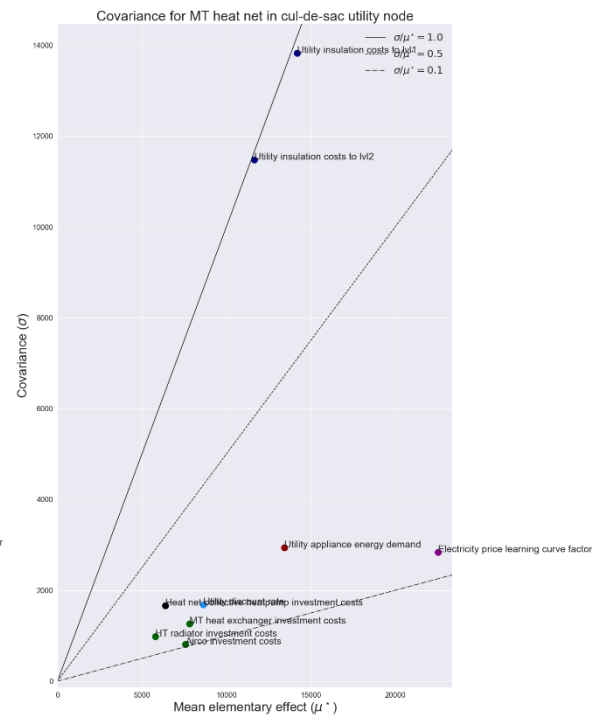
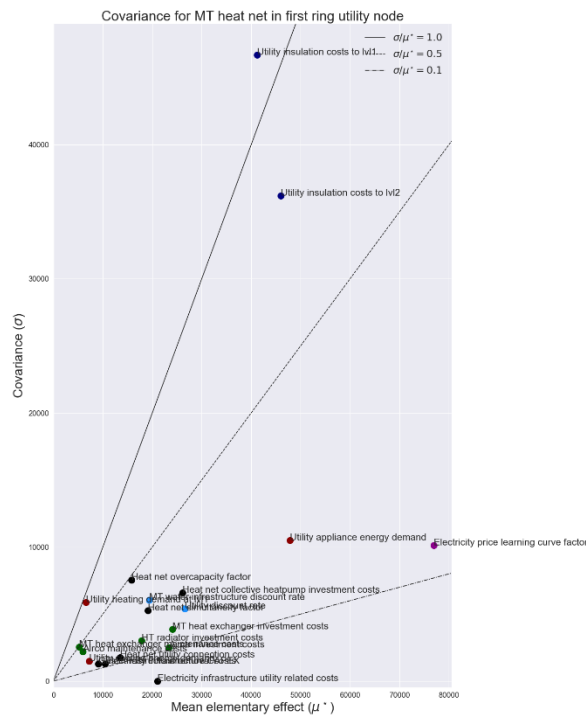
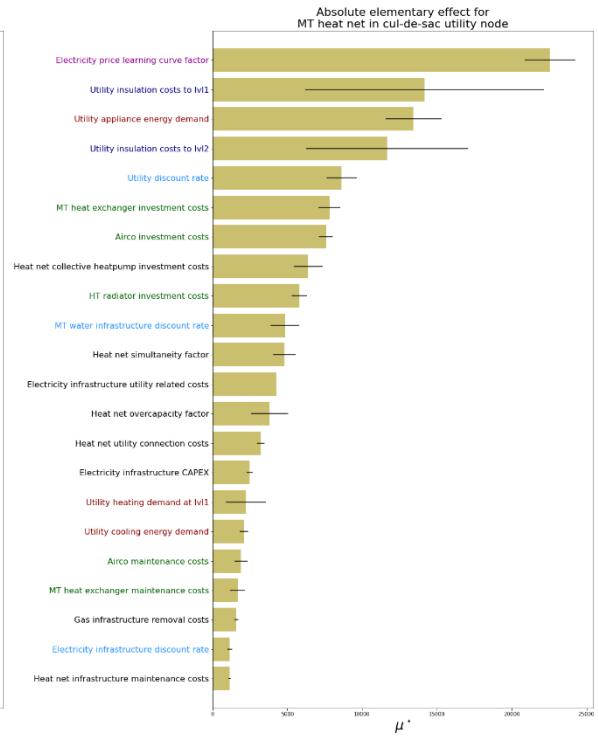
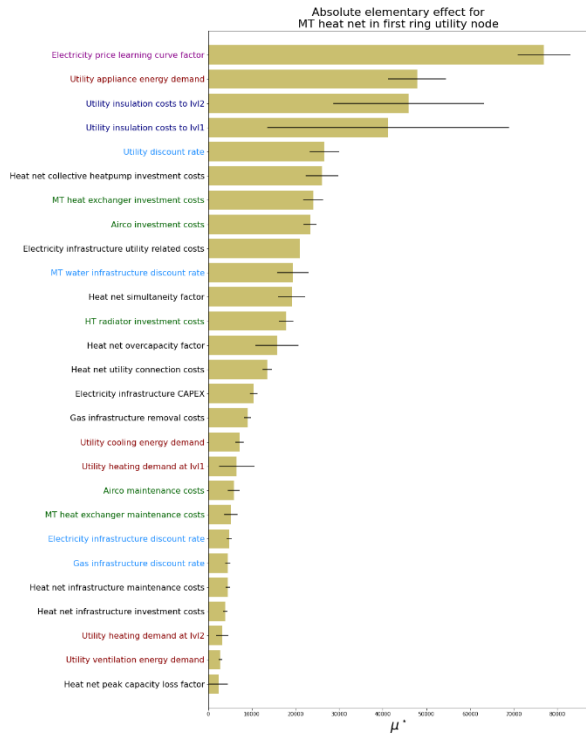


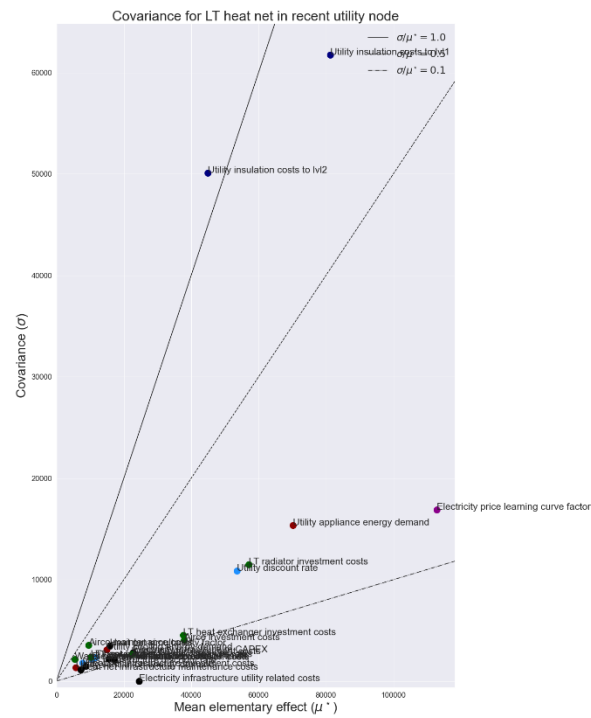
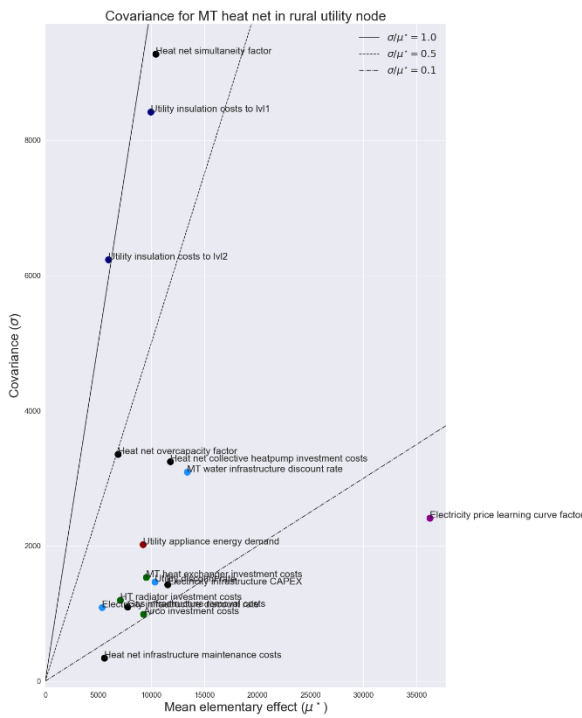
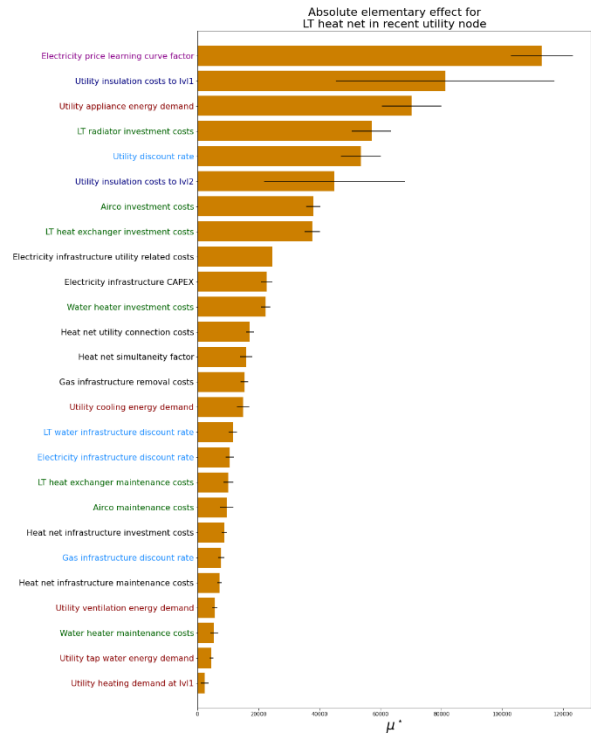
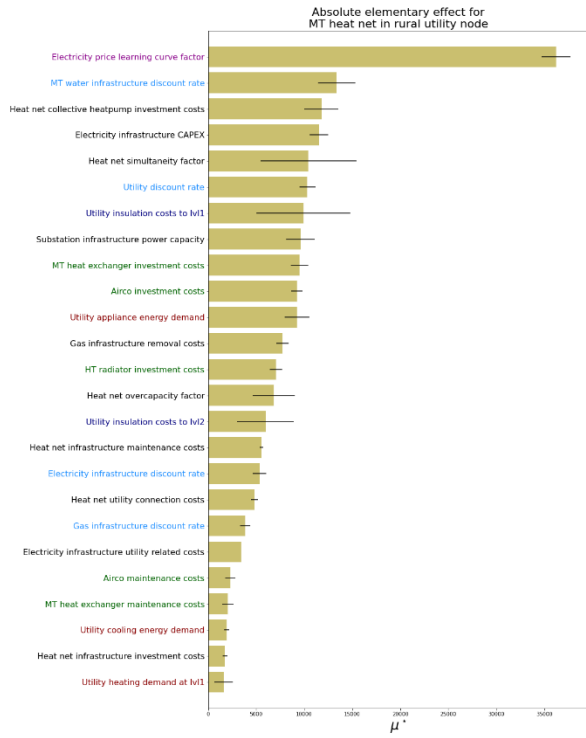


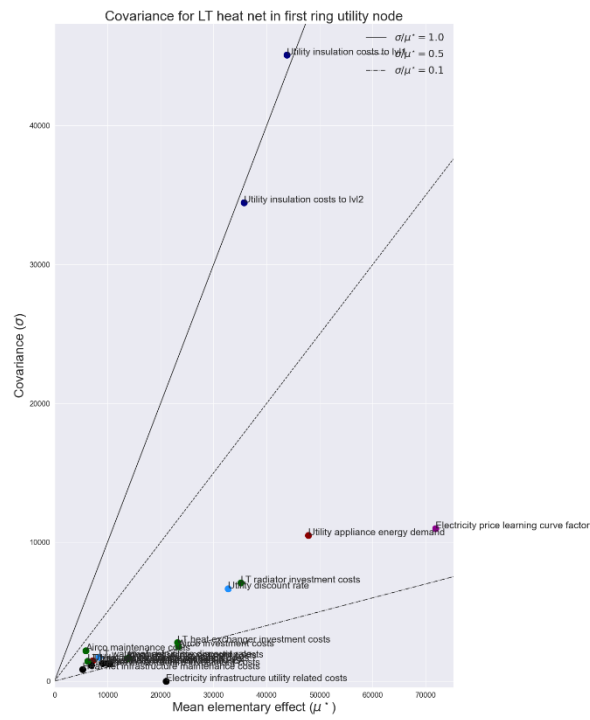
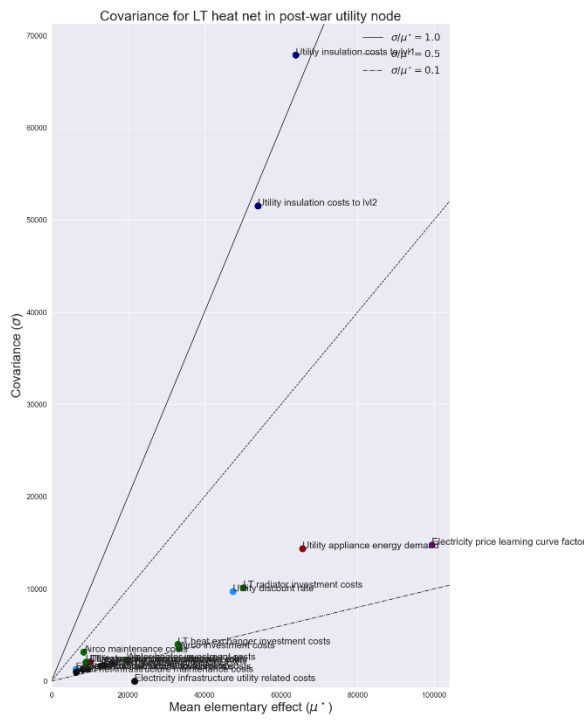
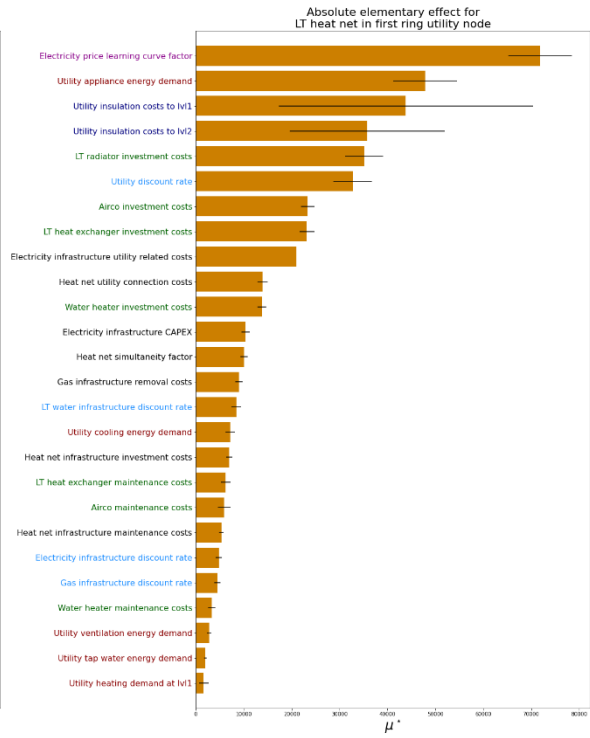
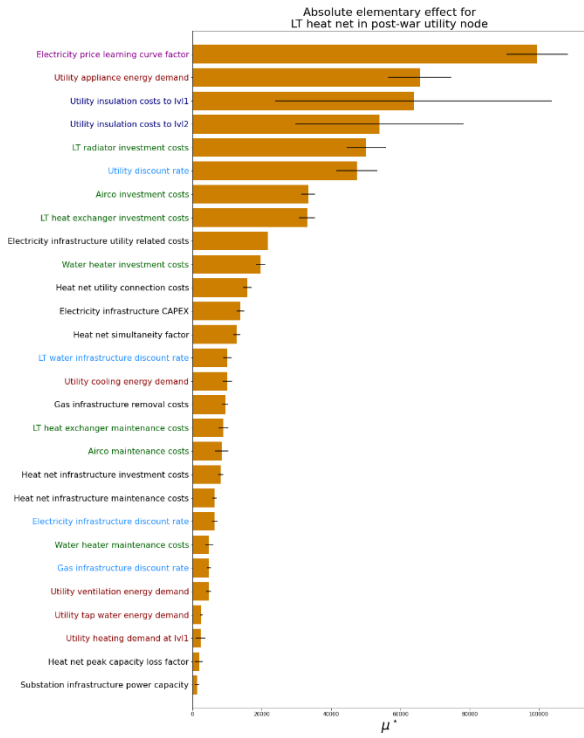


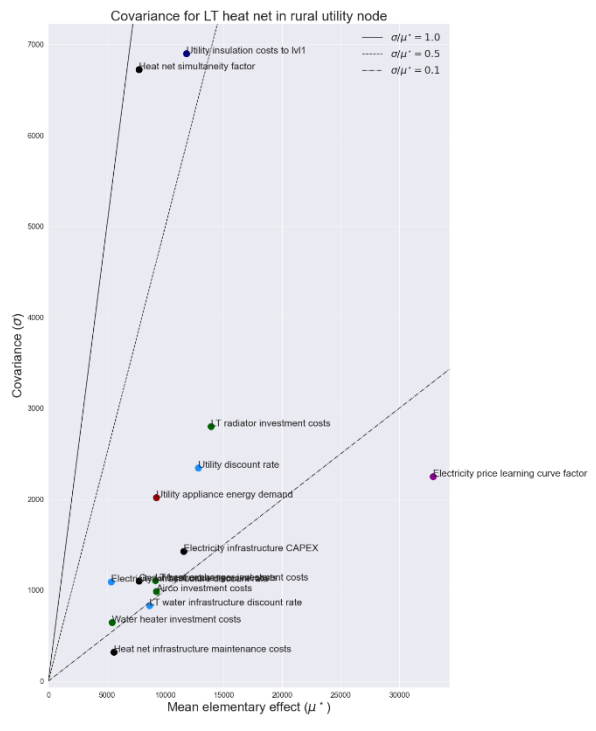
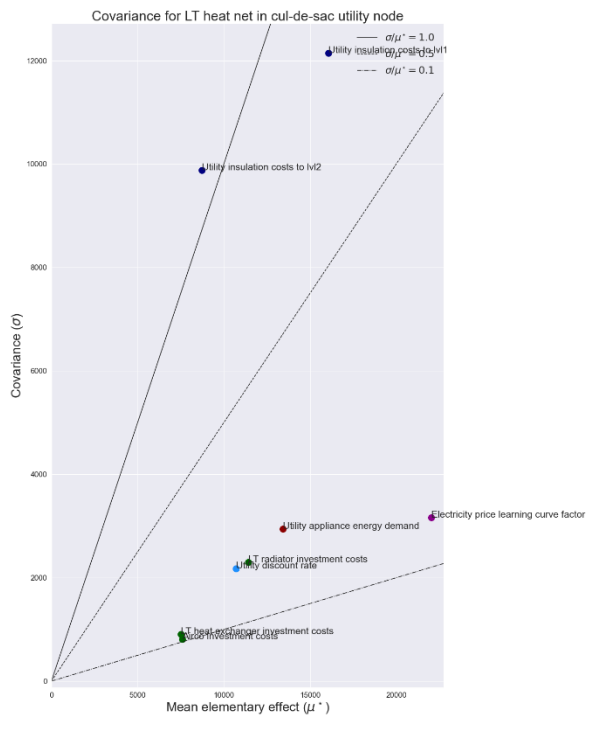
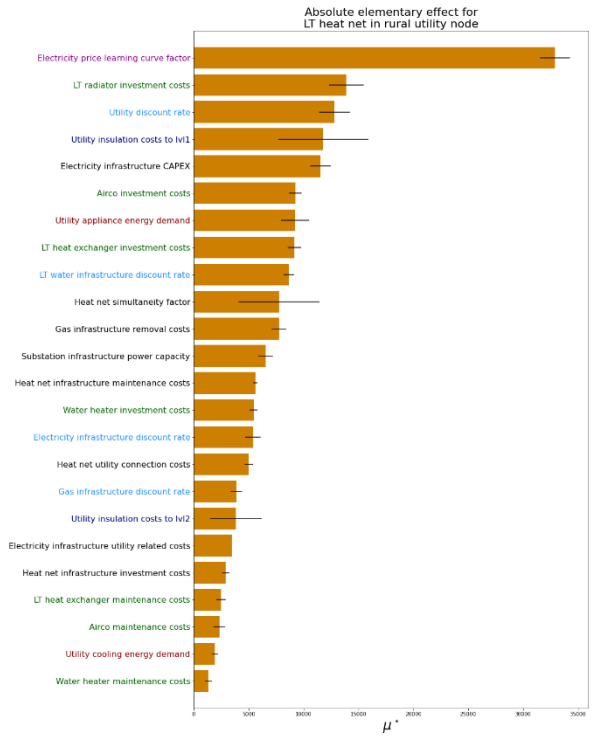
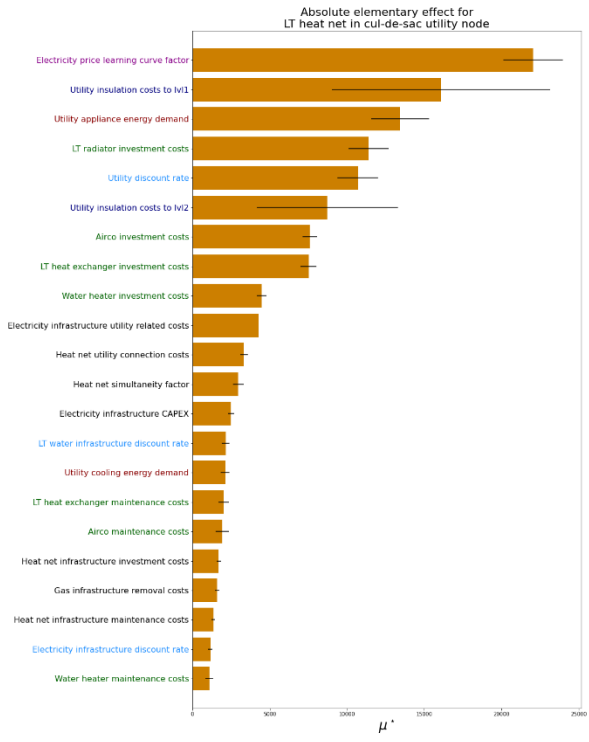






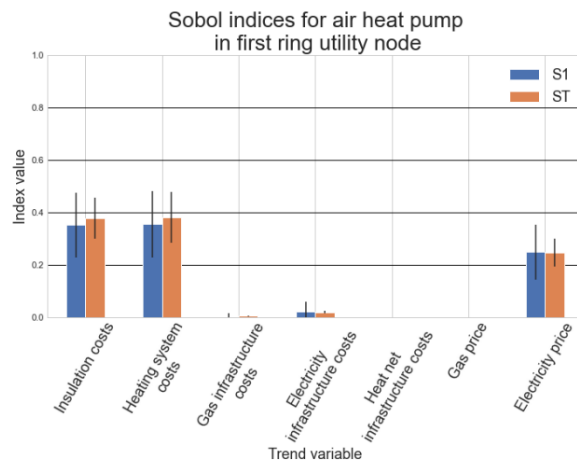
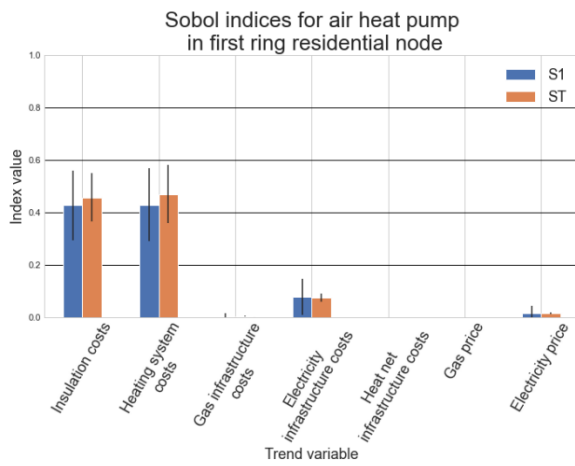
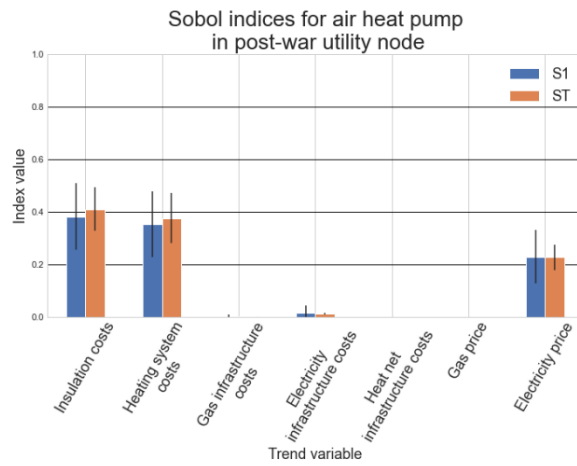
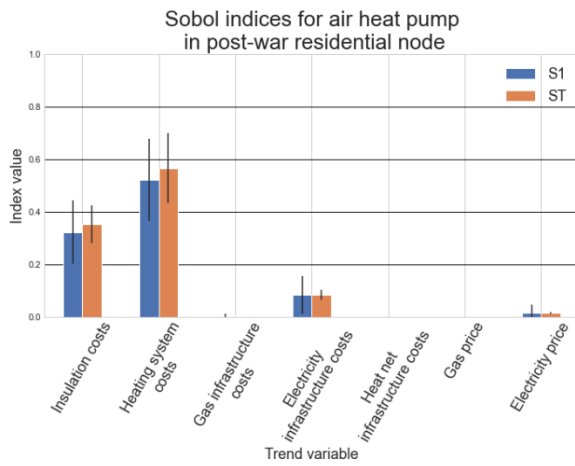
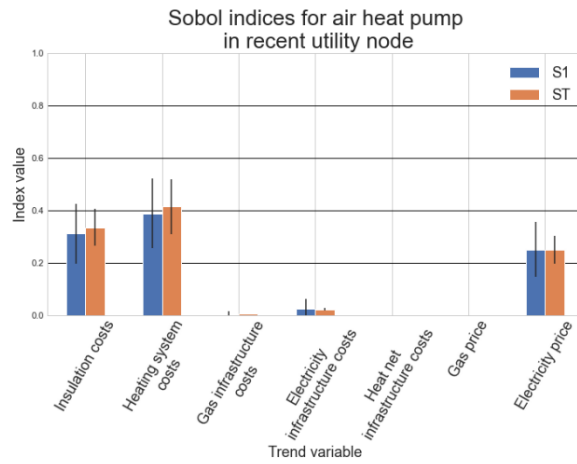
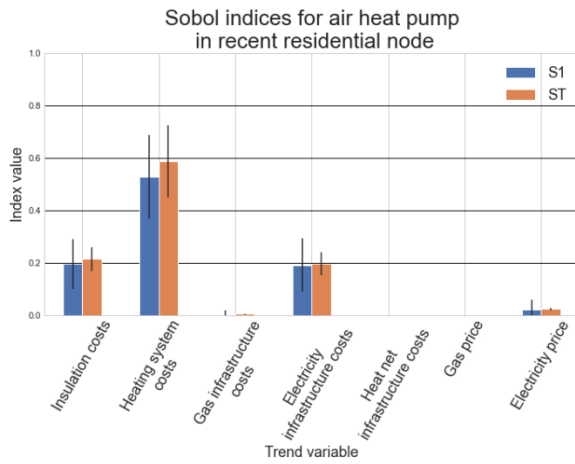


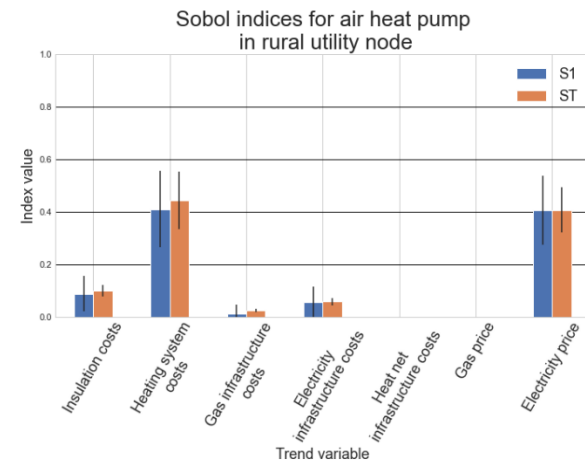
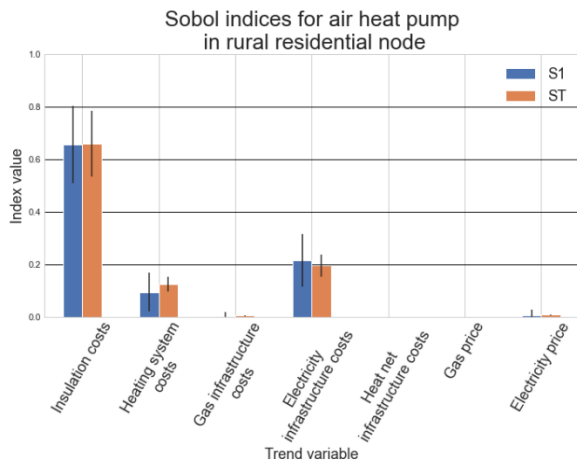
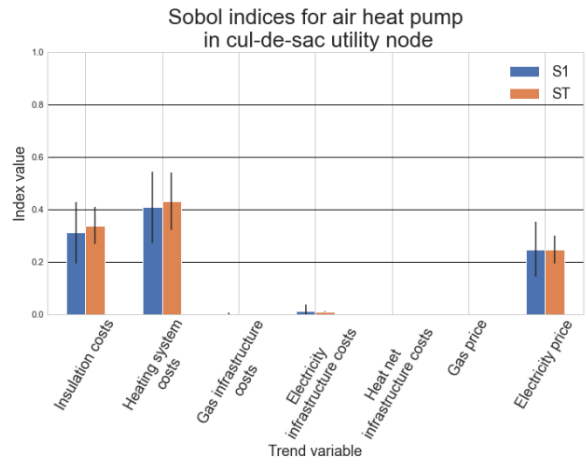
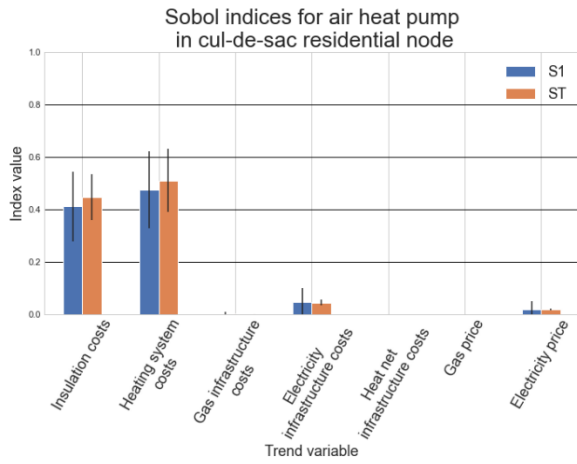




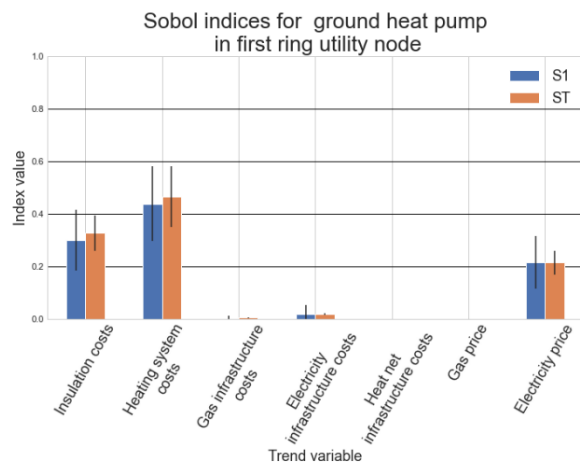
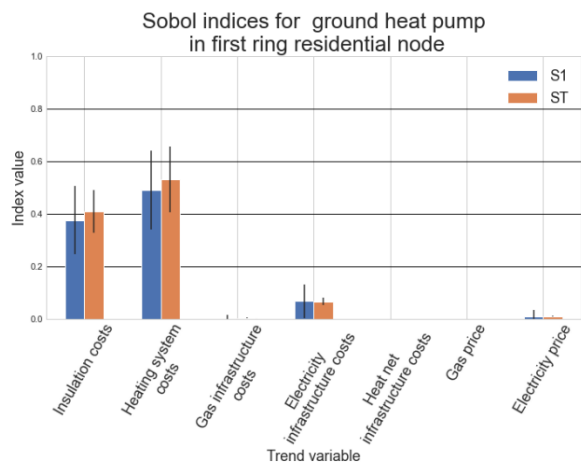
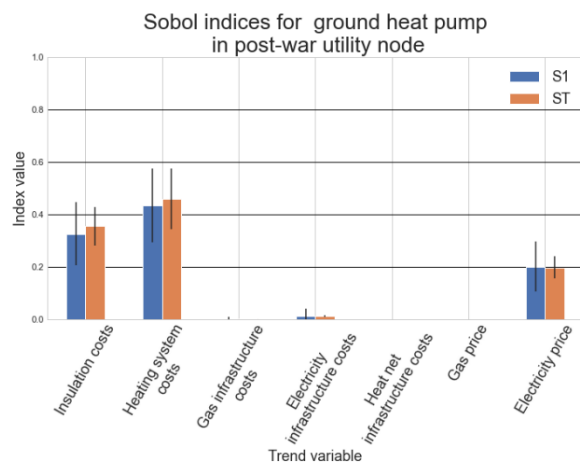
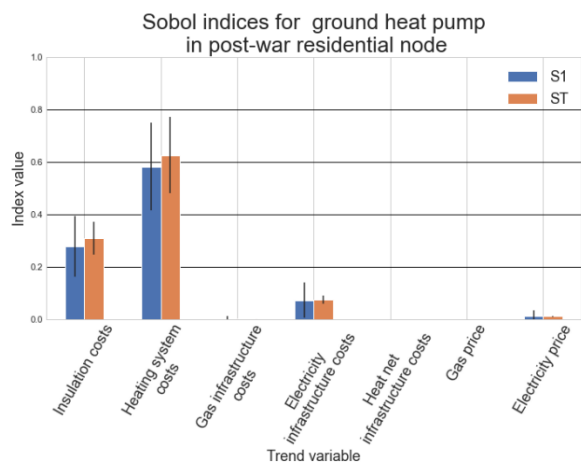
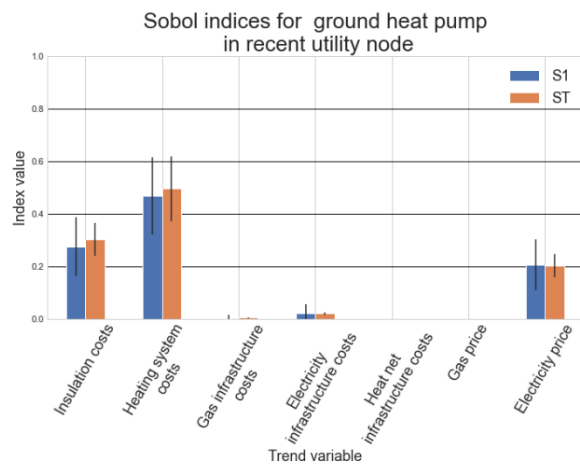
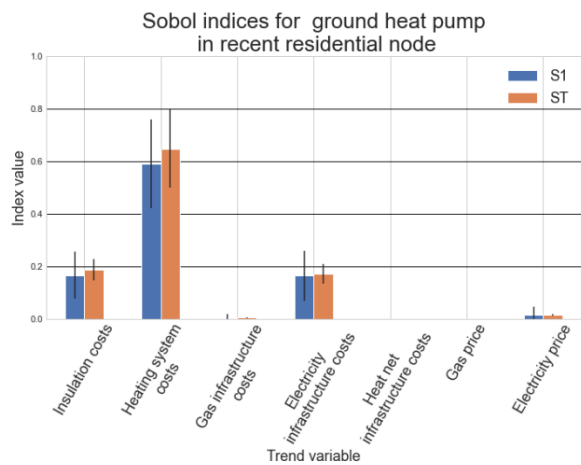
Sobol index plots

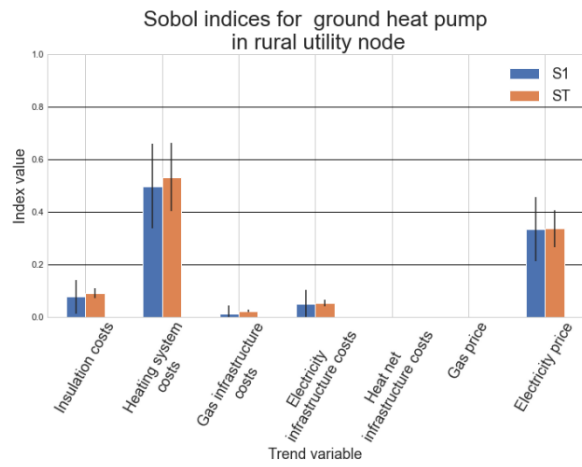
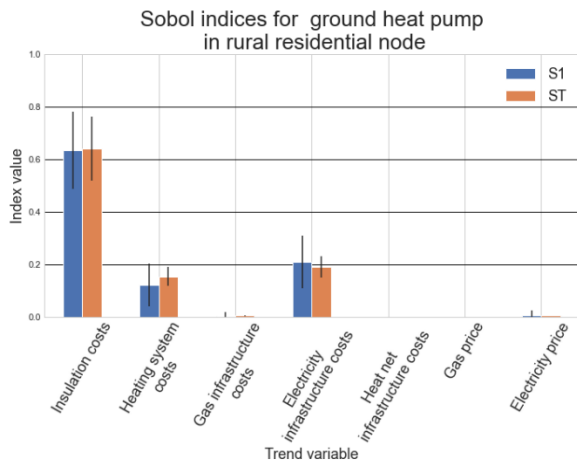
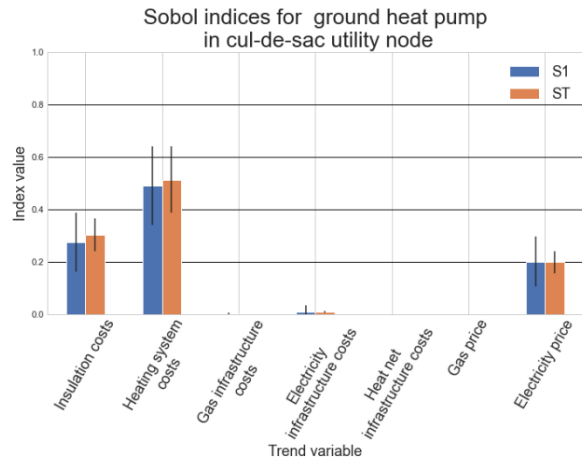
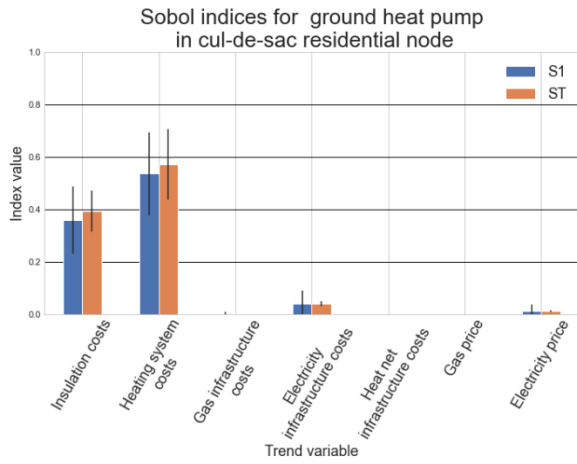
Air heat pump



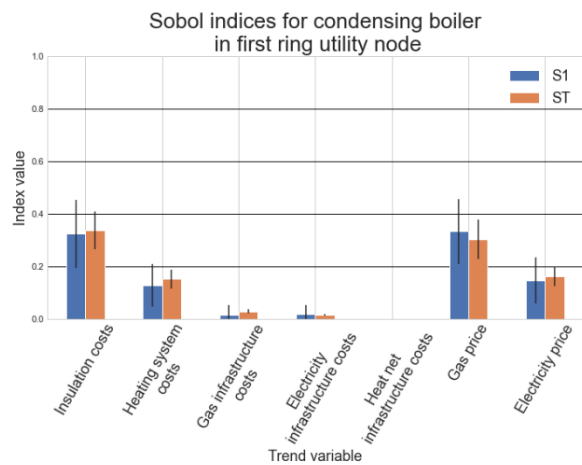
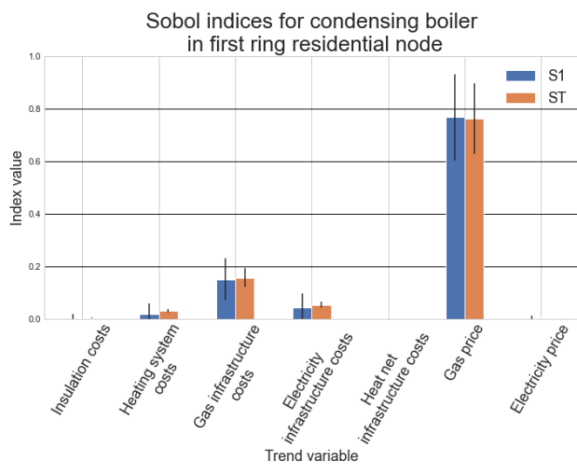
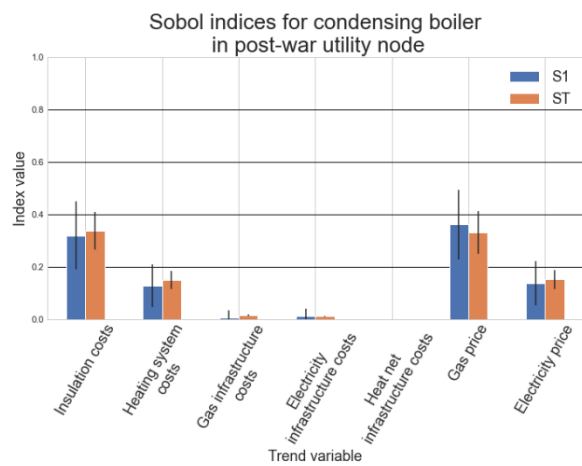
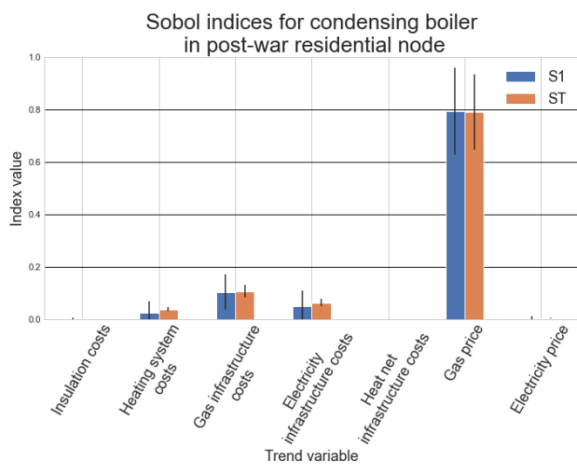
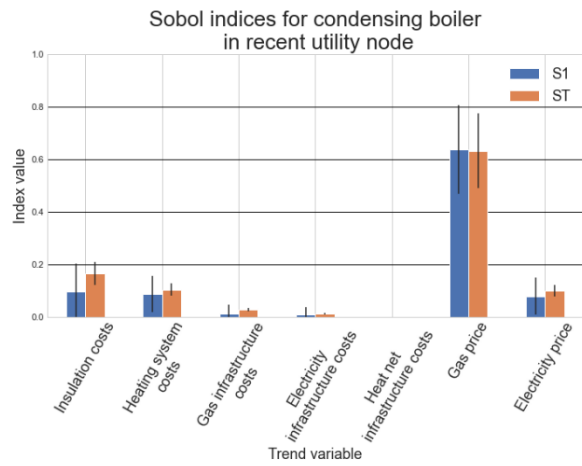
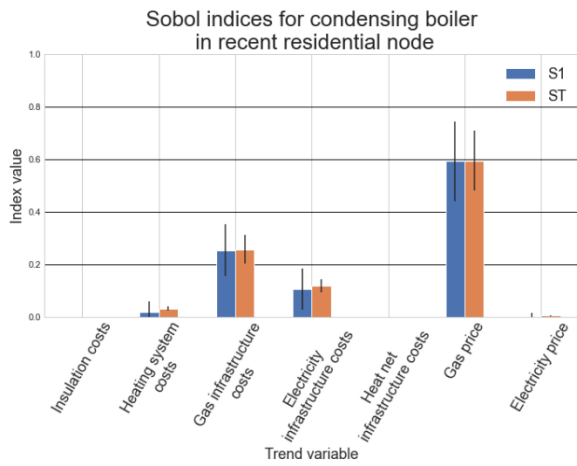


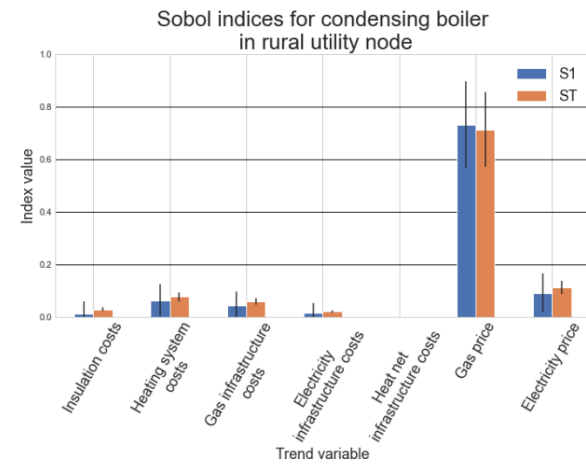
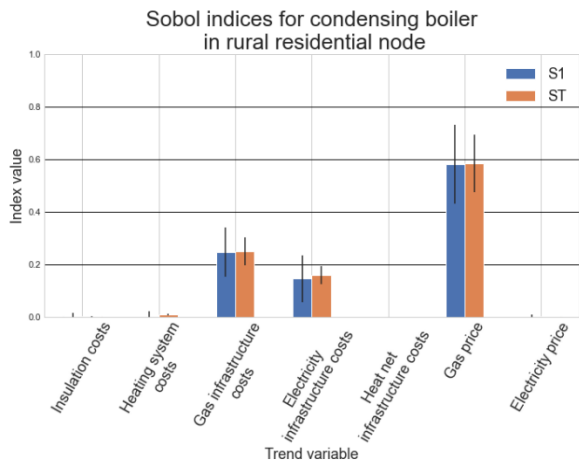
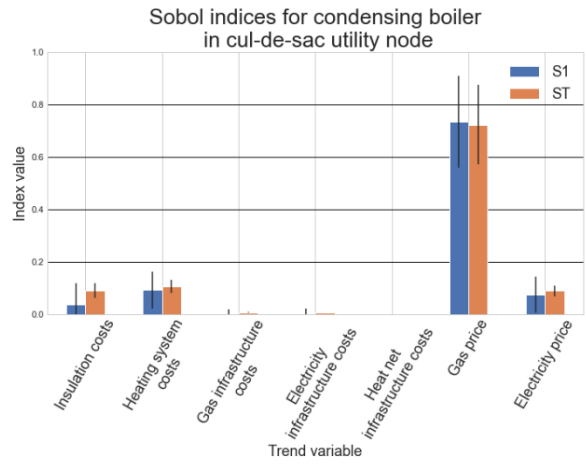
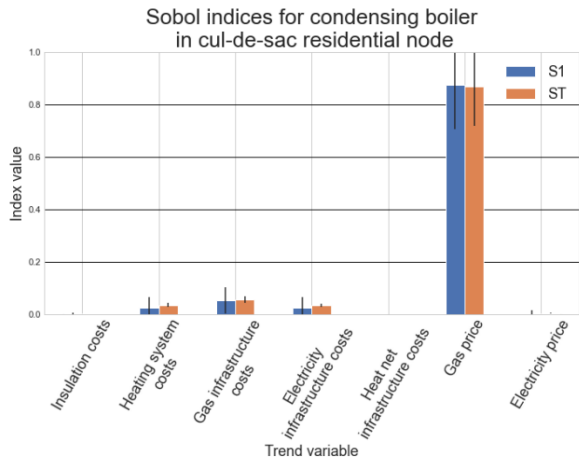
Ground heat pump



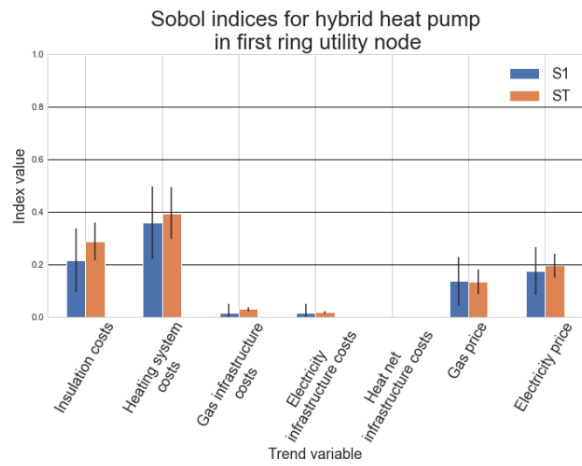
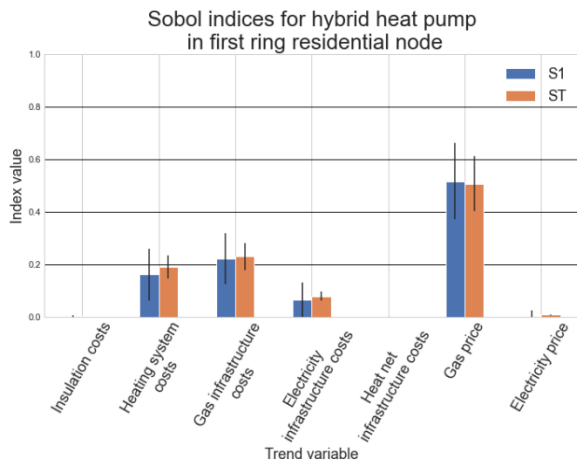
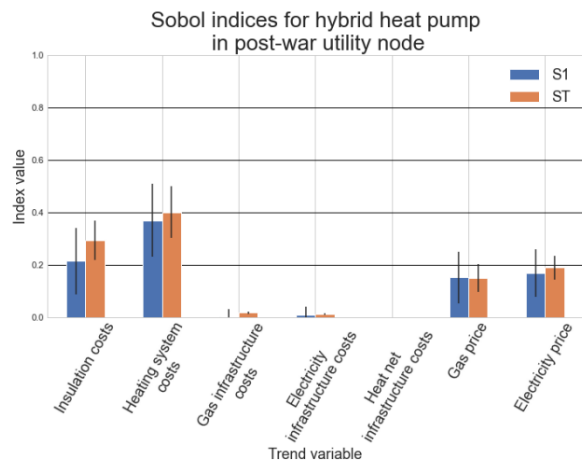
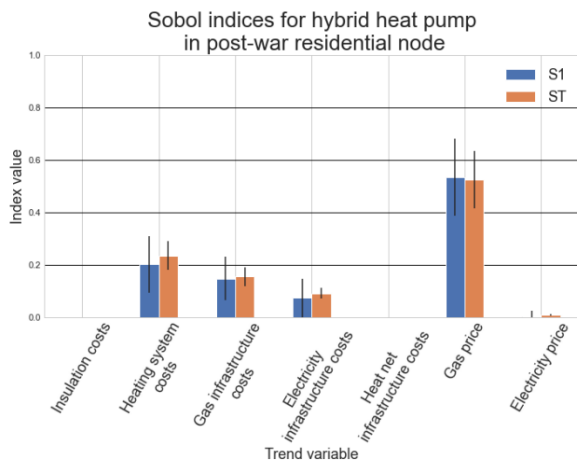
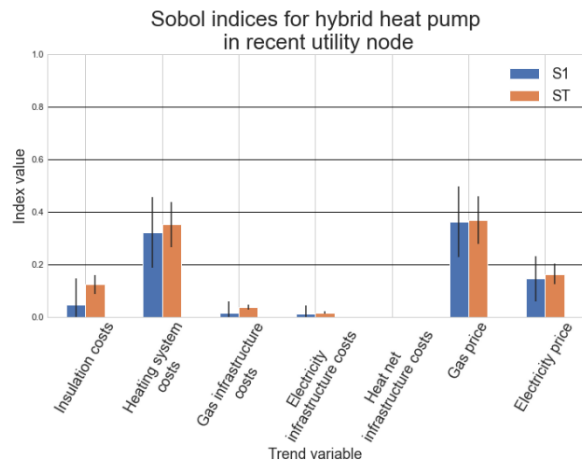
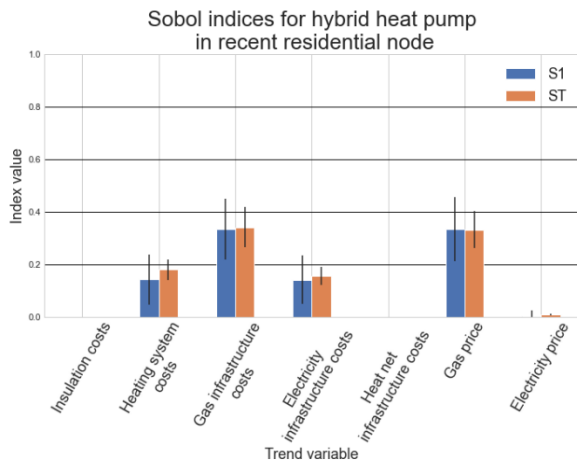


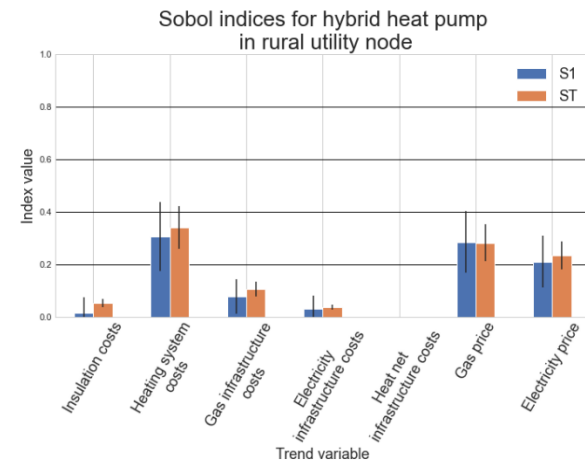
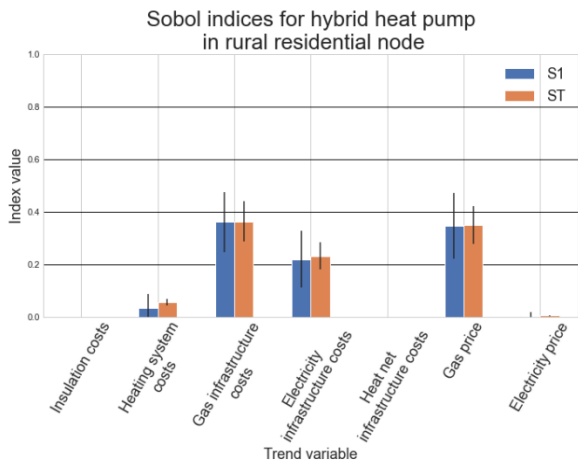
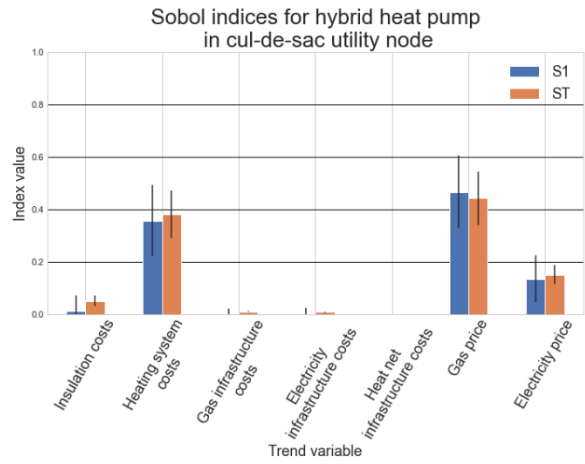
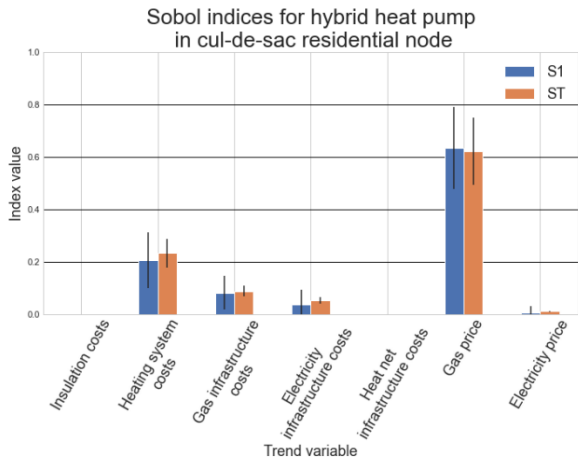
Condensing boiler



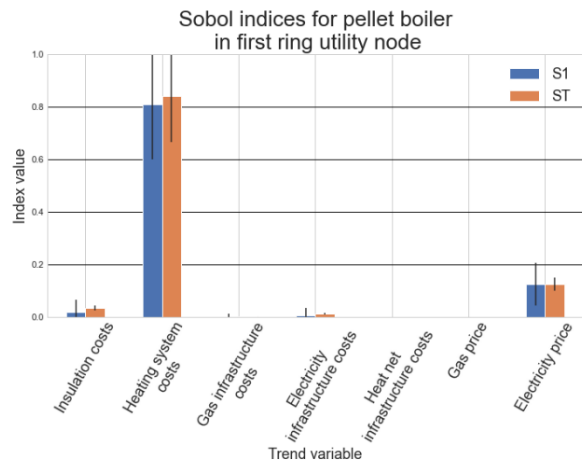
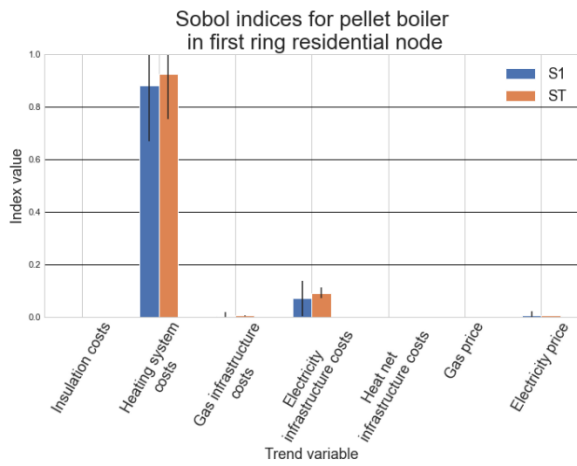
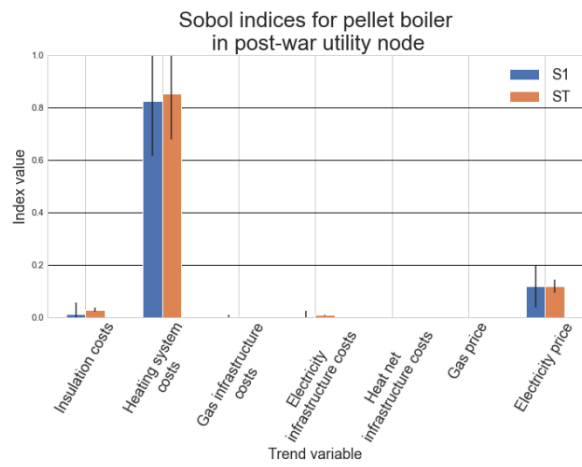
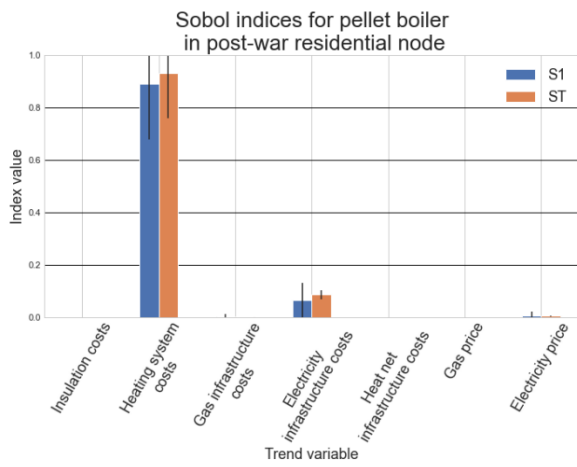
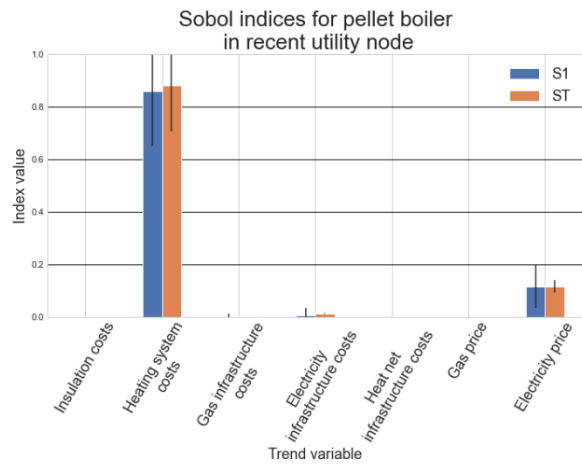
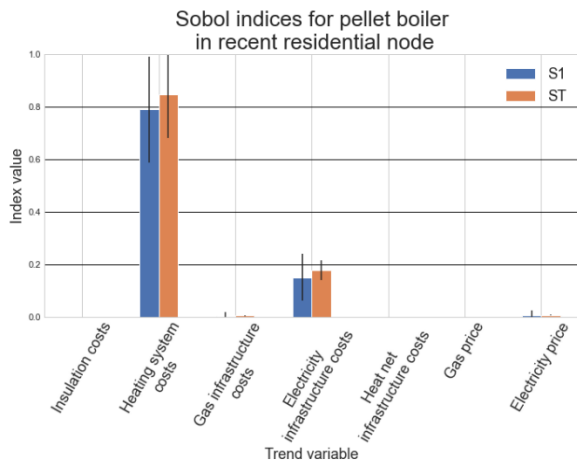


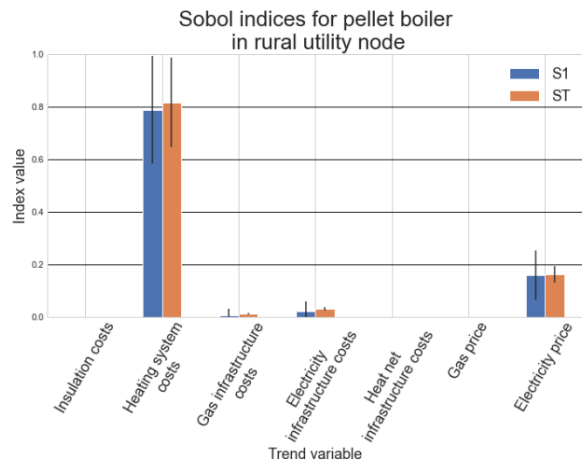
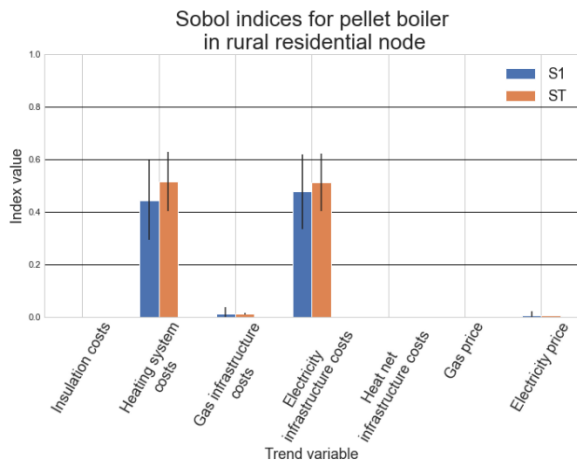
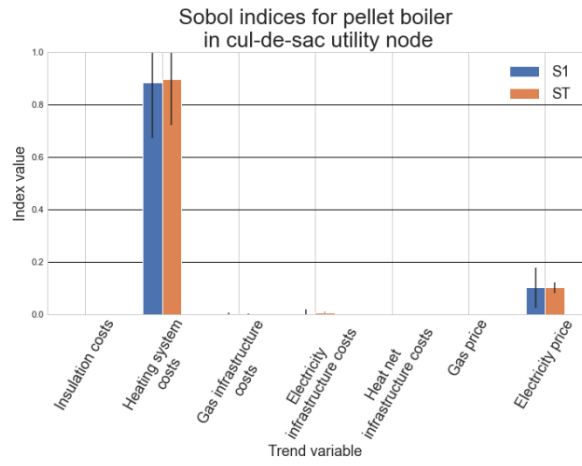
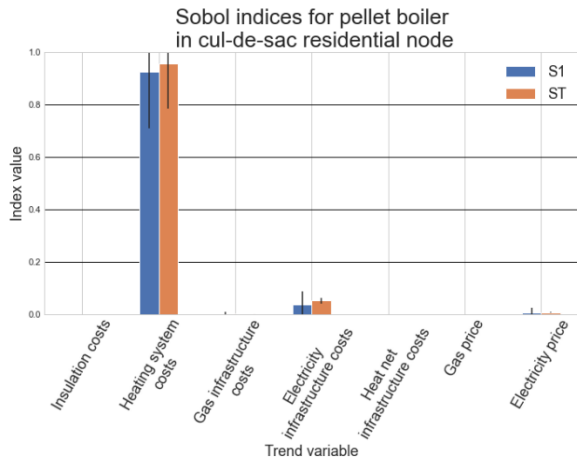
Hybrid heat pump



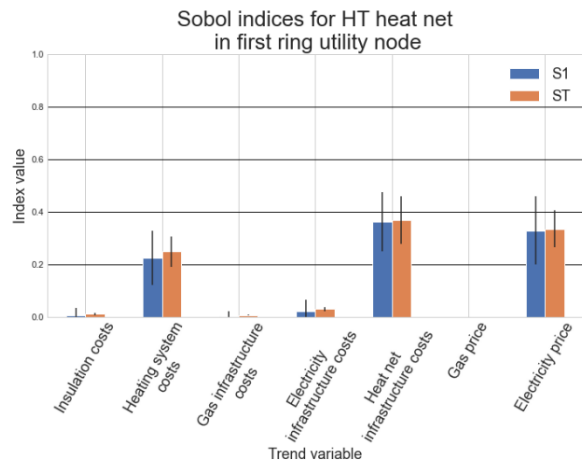
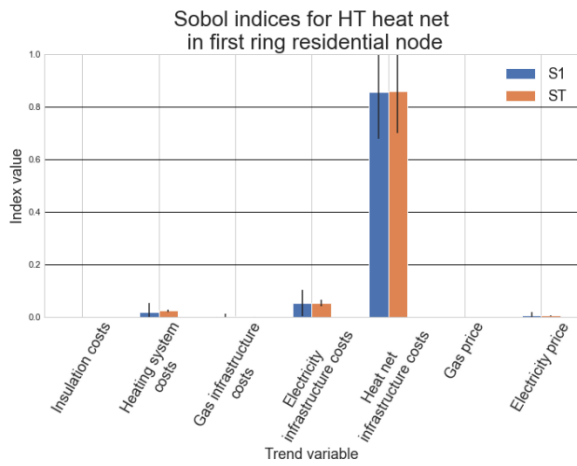
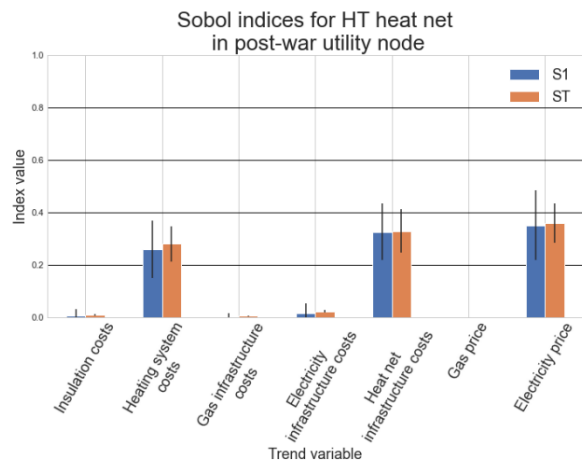
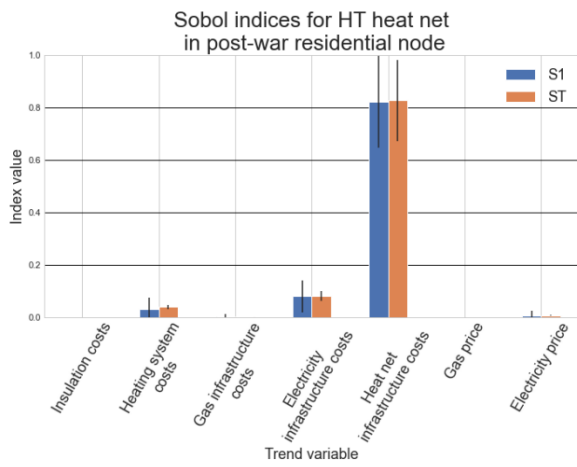
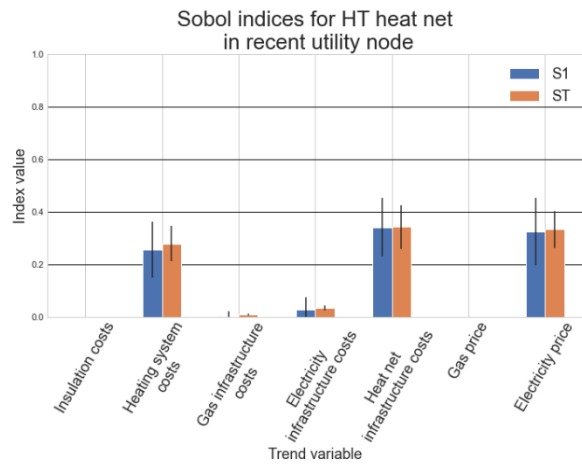
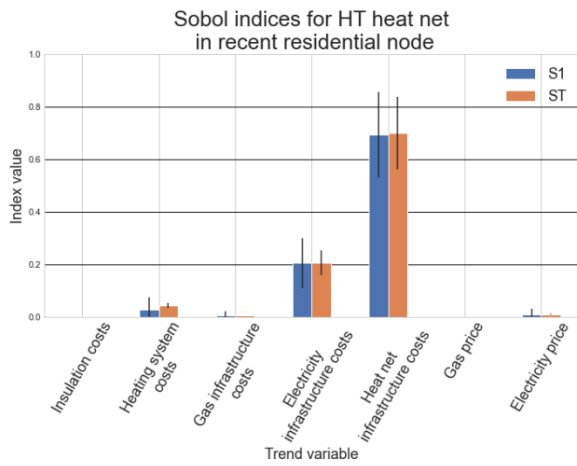


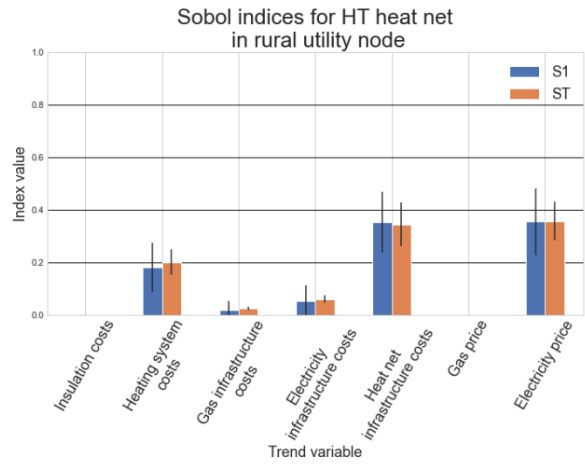
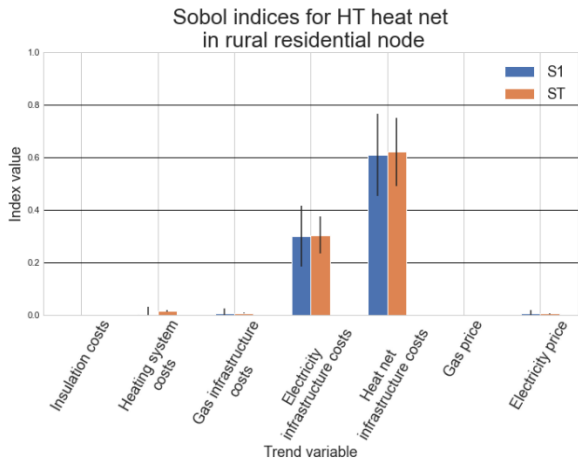
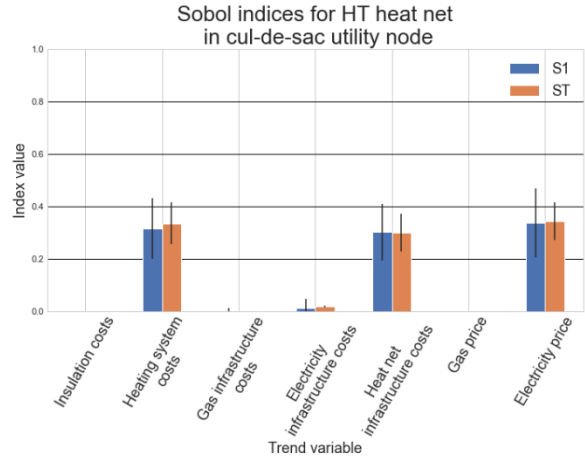
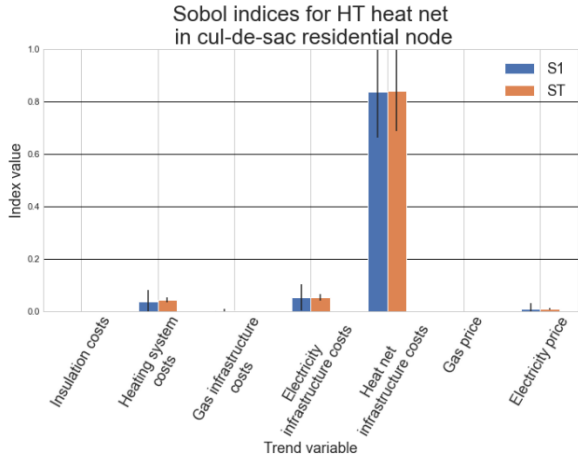
Pellet boiler



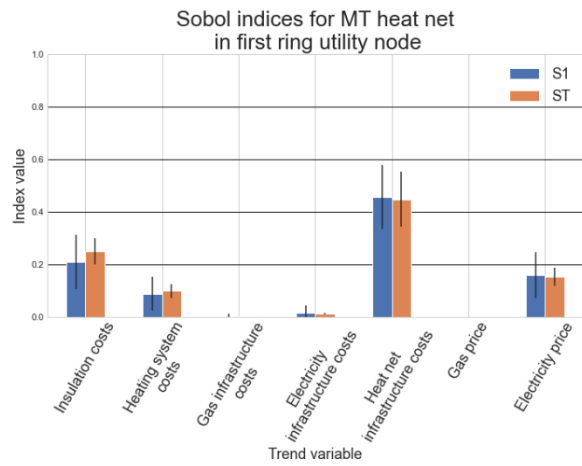
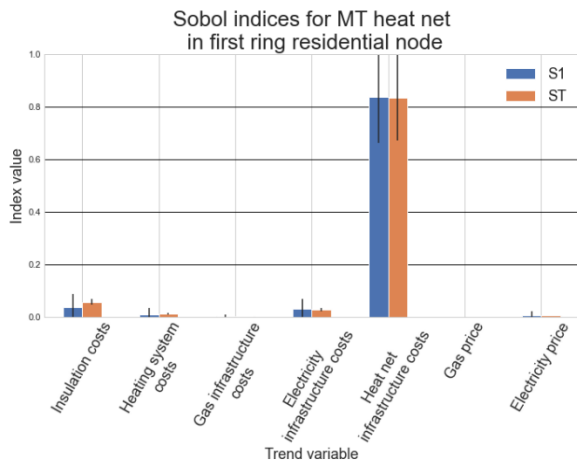
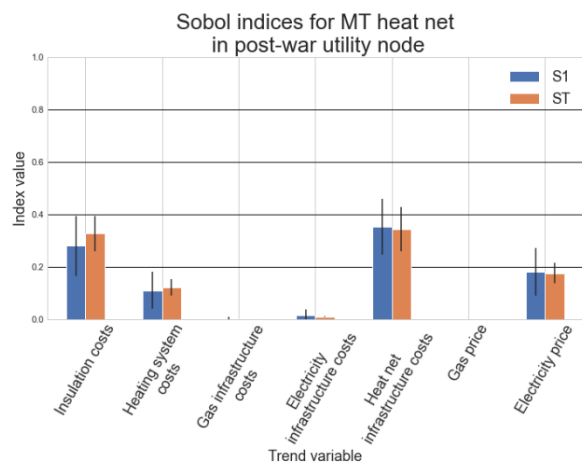
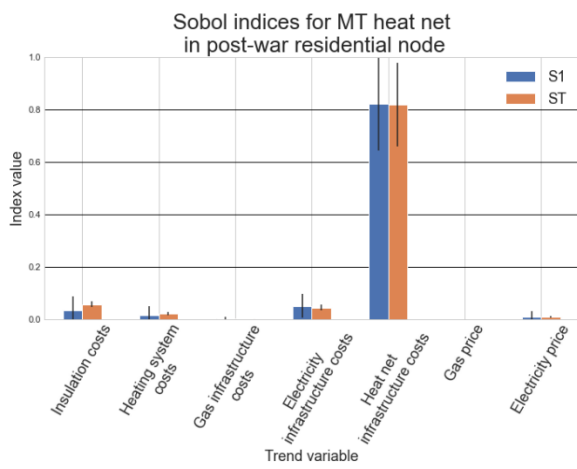
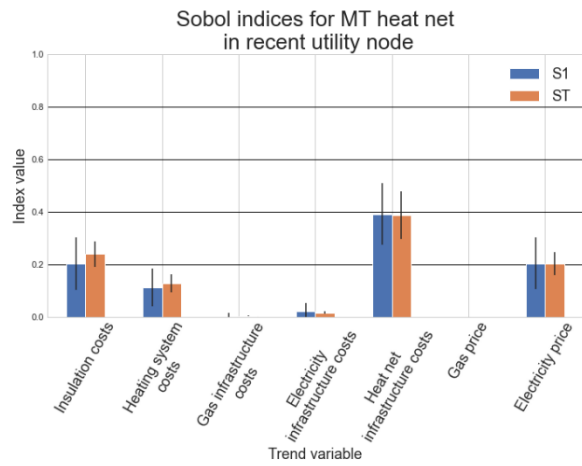
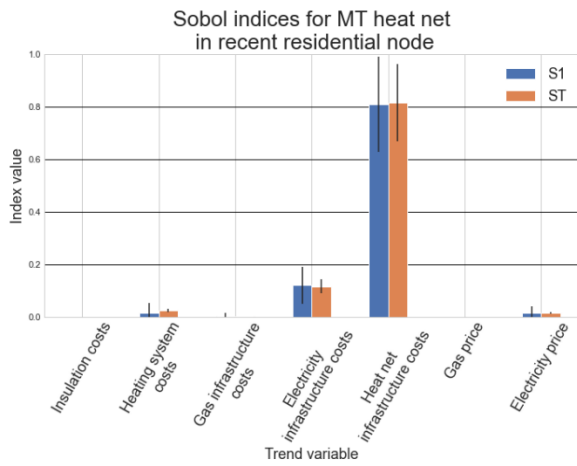


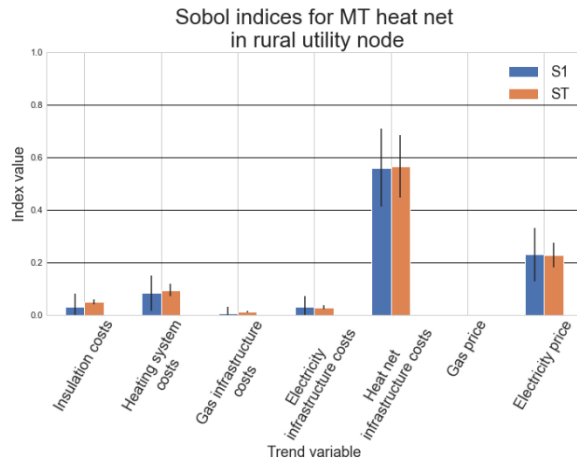
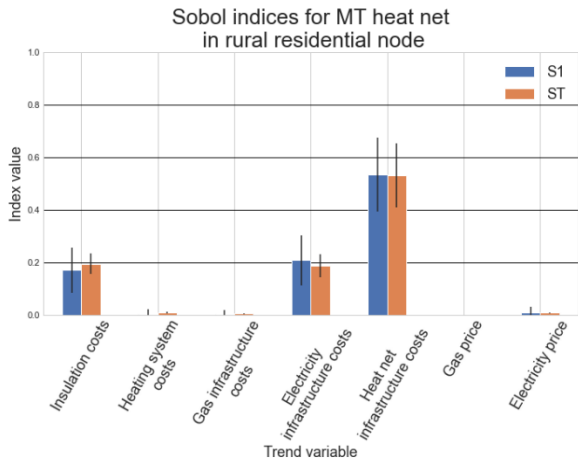
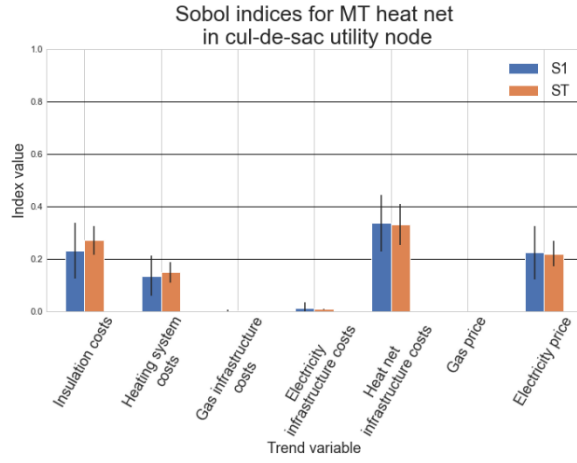
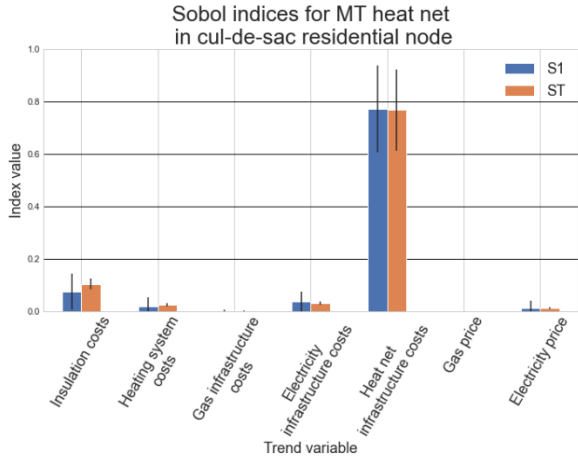
HT heat net



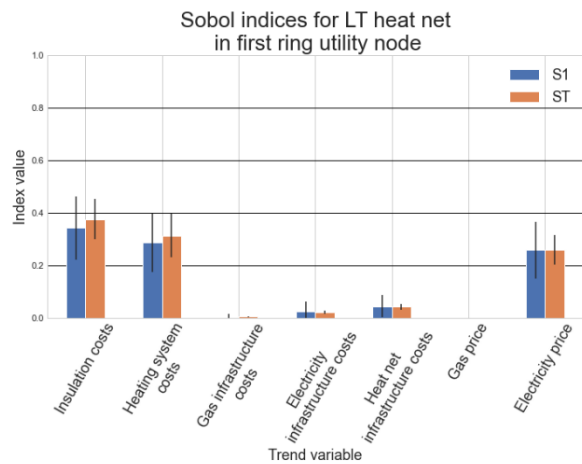
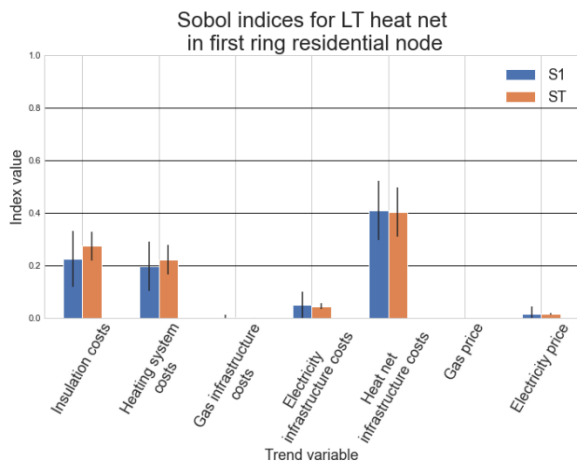
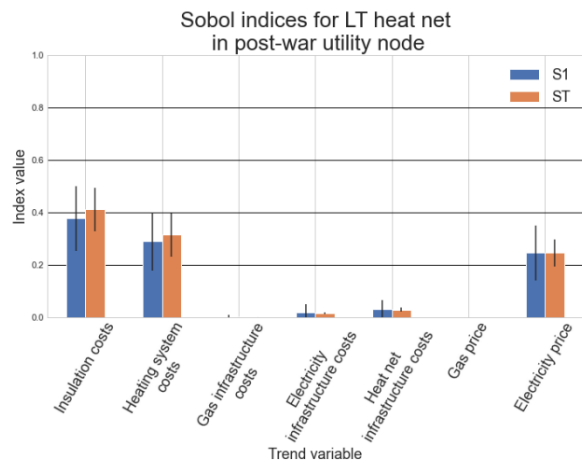
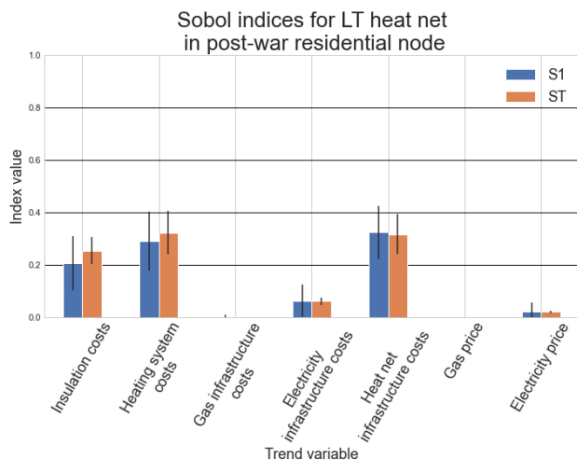
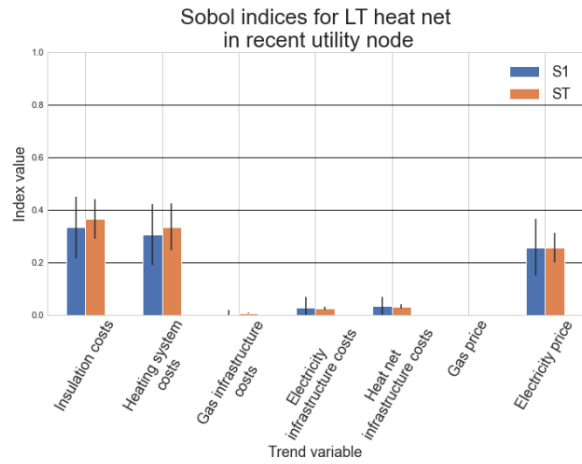
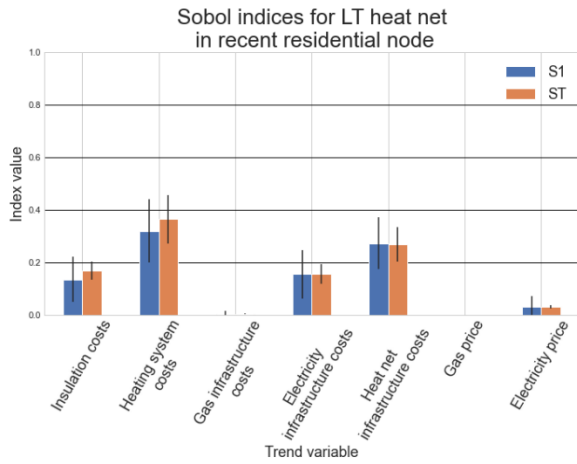


MT heat net

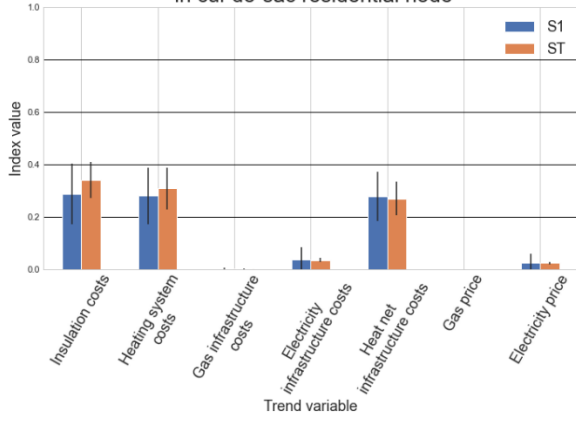




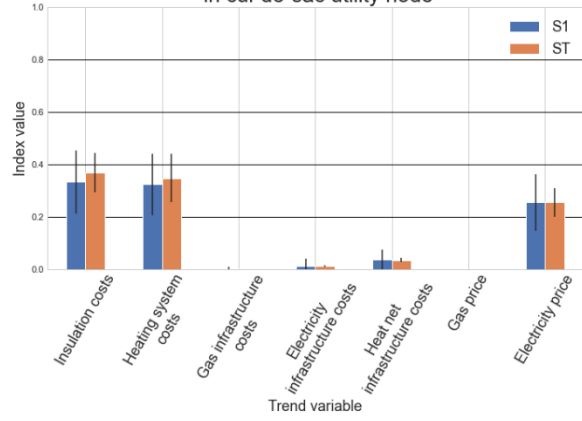
LT heat net



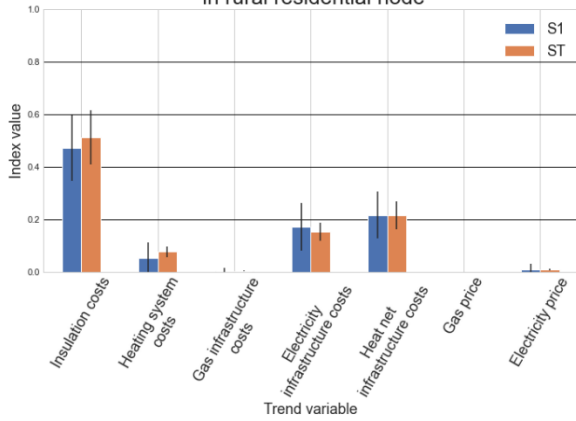
Sobol indices for LT heat net in cul-de-sac residential node



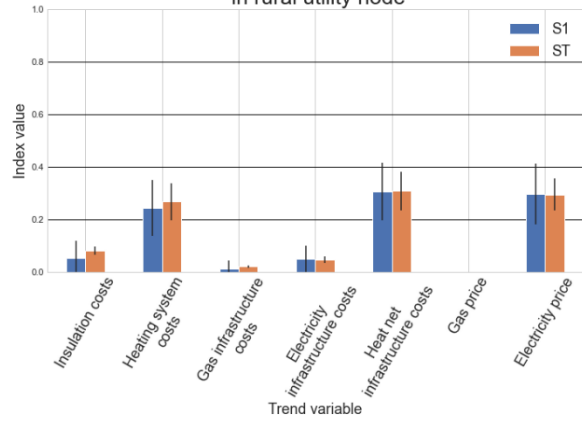
Sobol indices for LT heat net in cul-de-sac utility node



Sobol indices for LT heat net in rural residential node

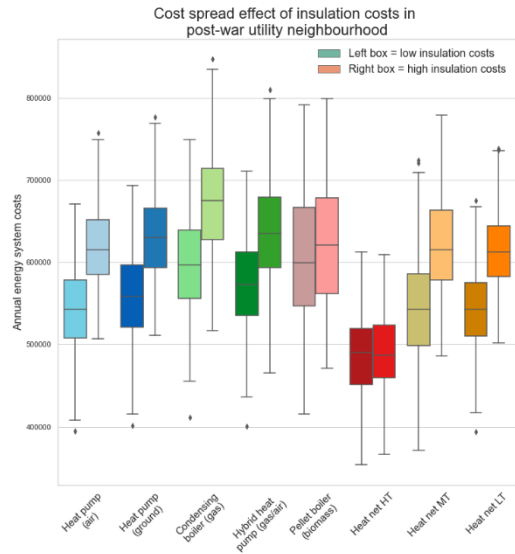
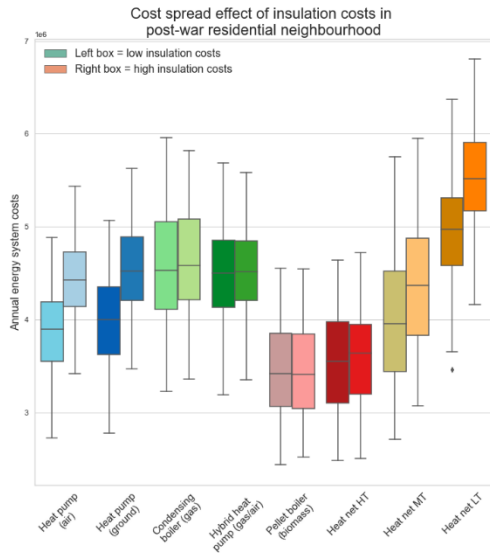
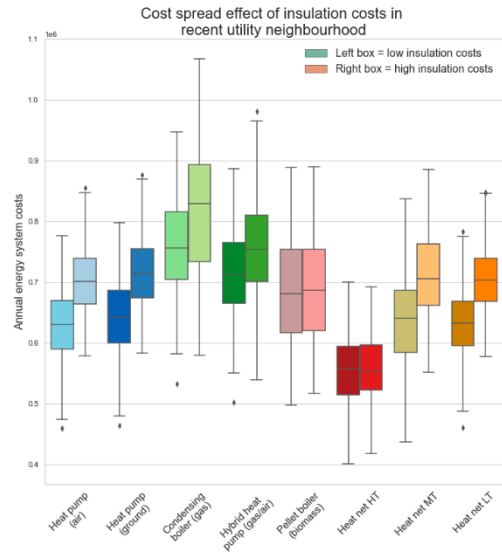
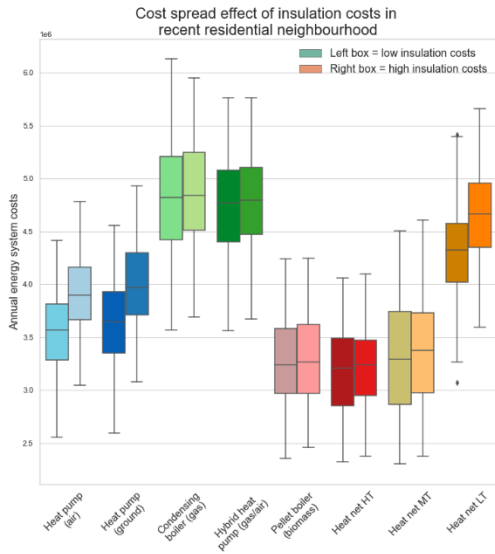


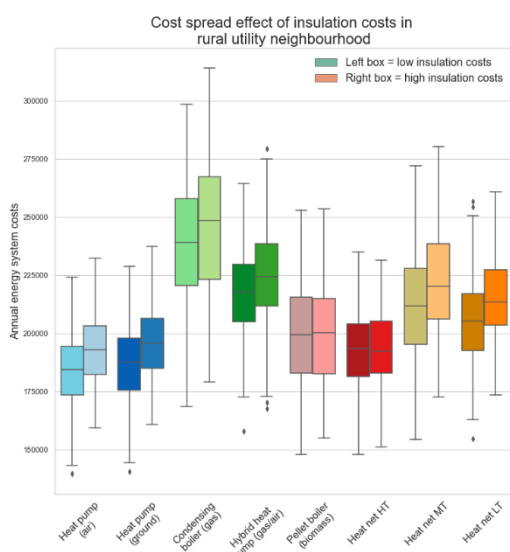
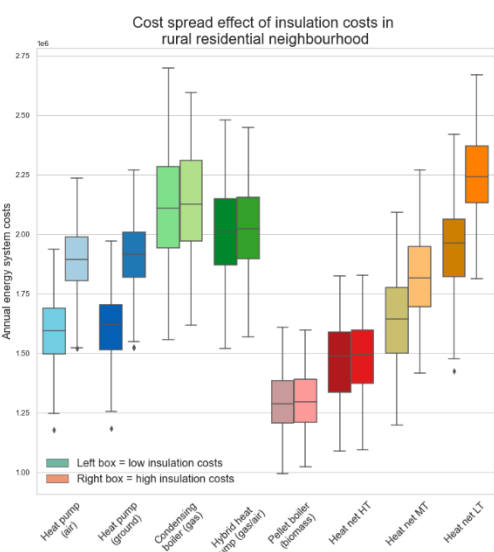
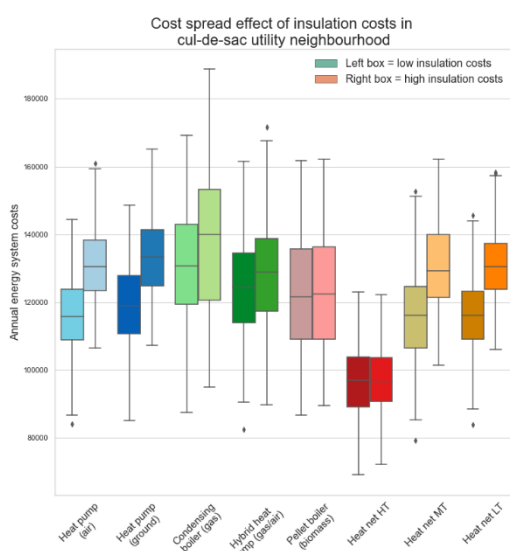
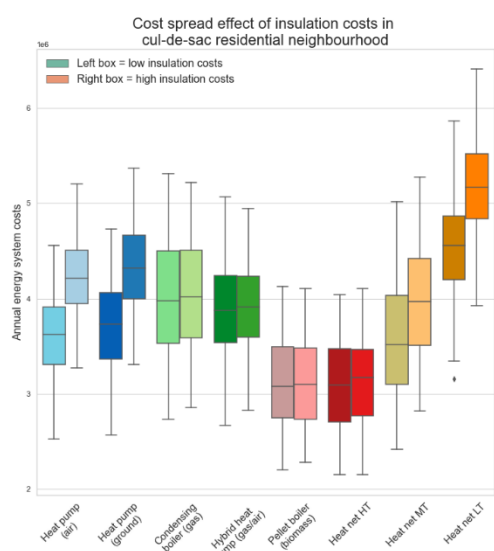
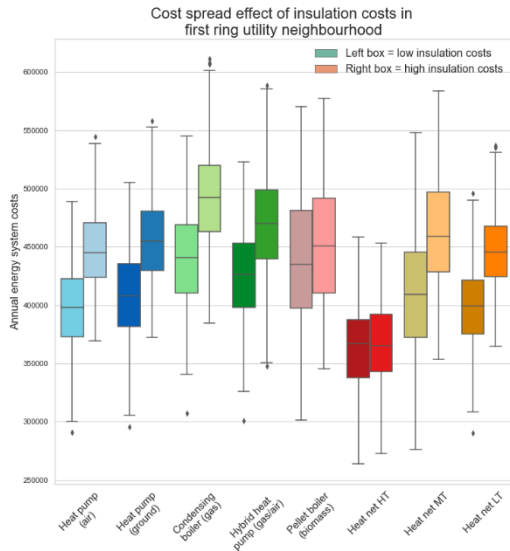
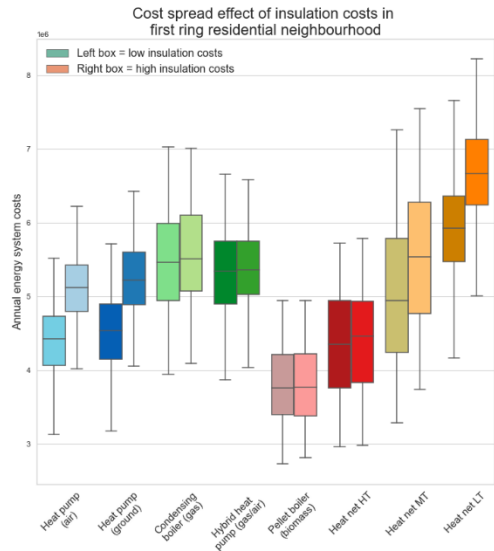
Sobol indices for LT heat net in rural utility node



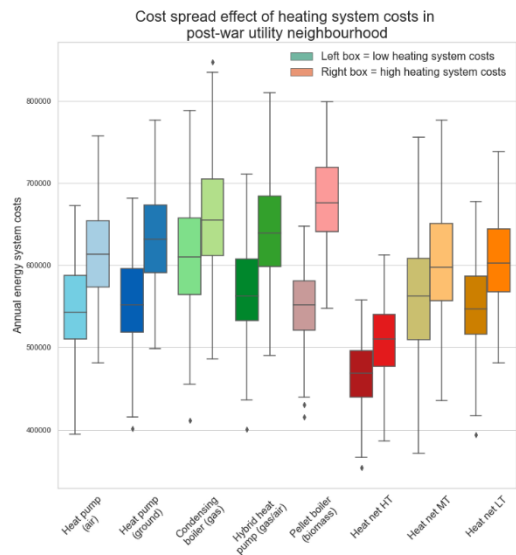
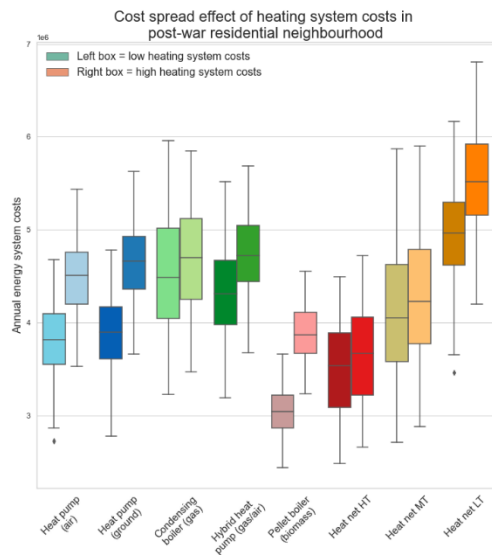
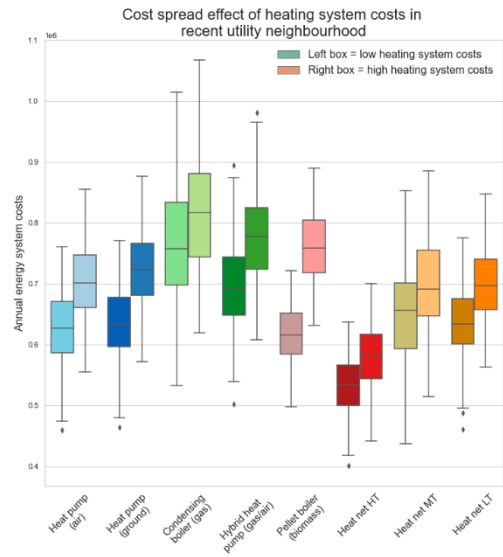
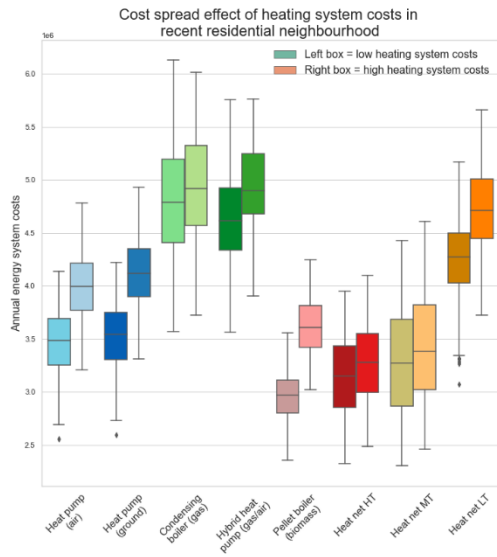
Sobol cost spreads

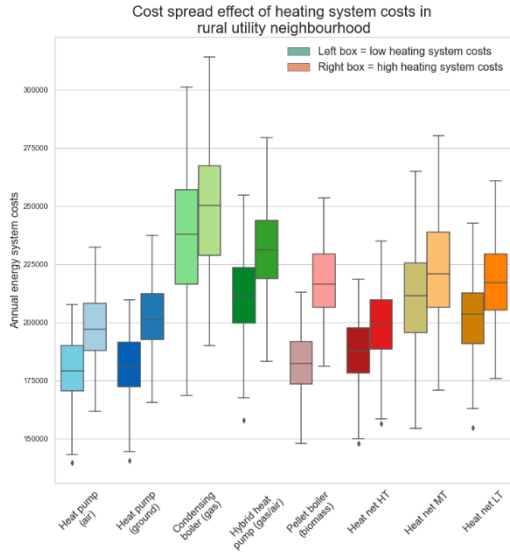
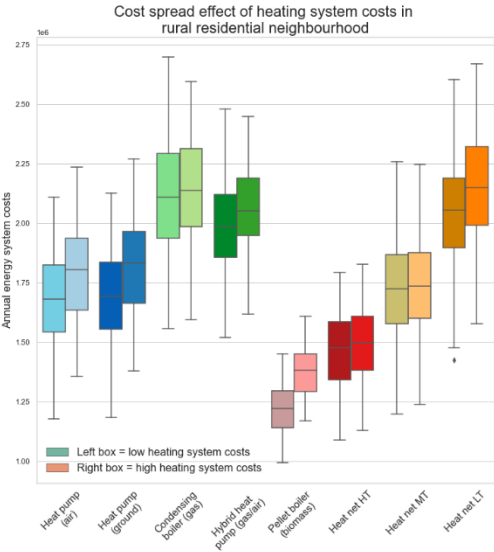
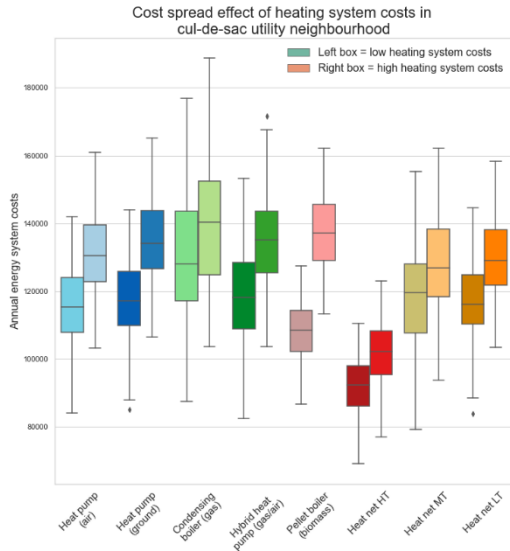
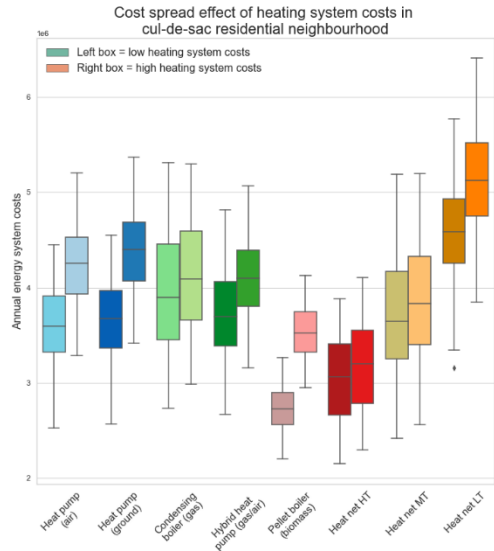
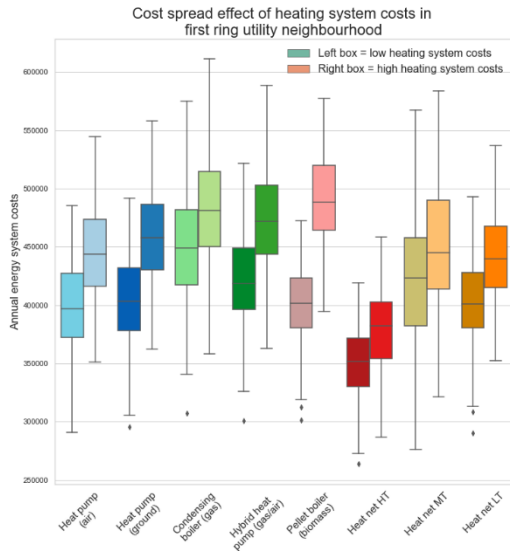
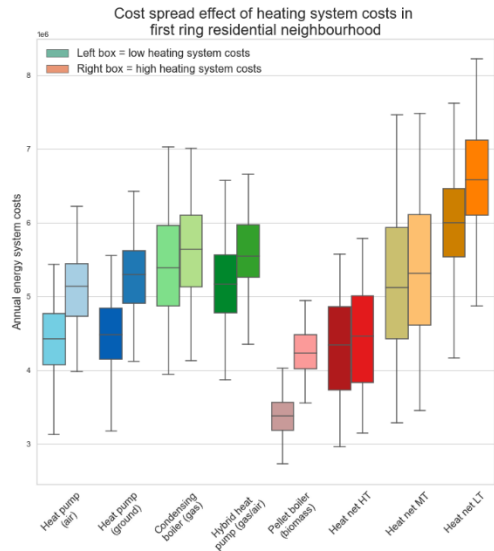
Insulation costs



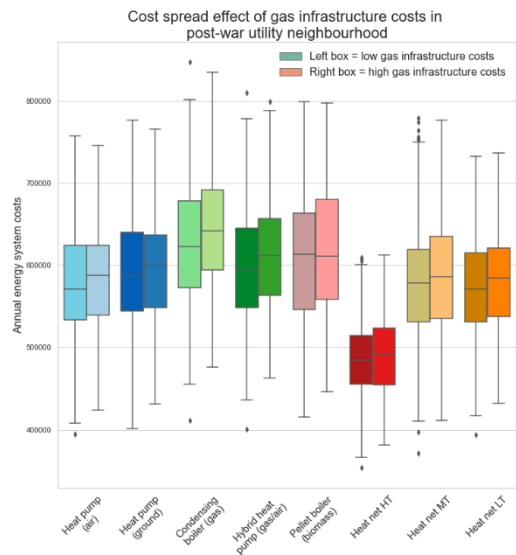
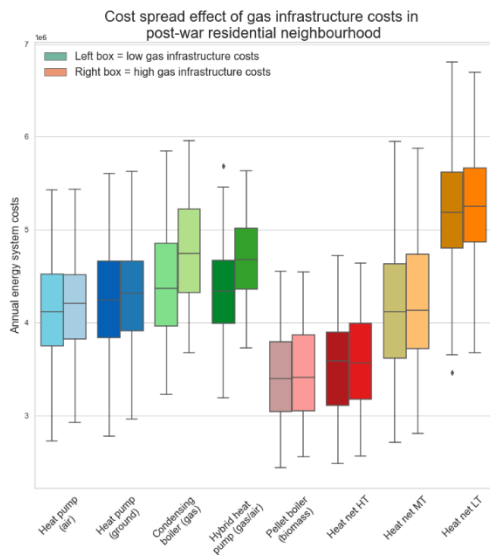
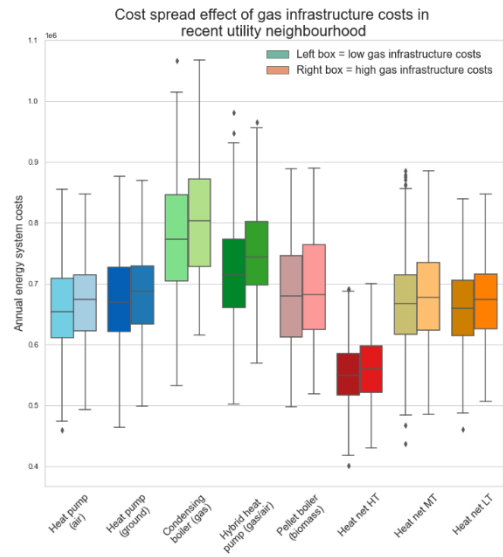
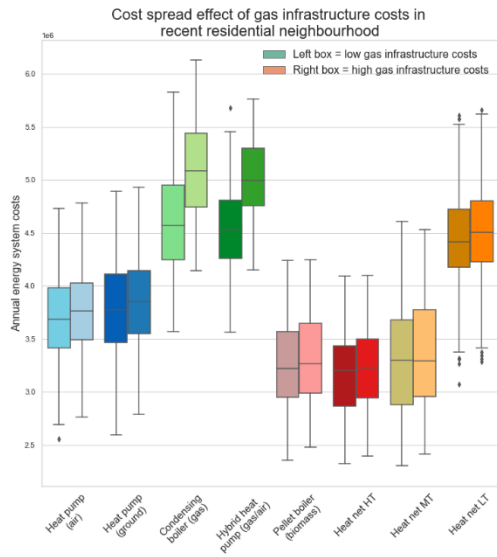


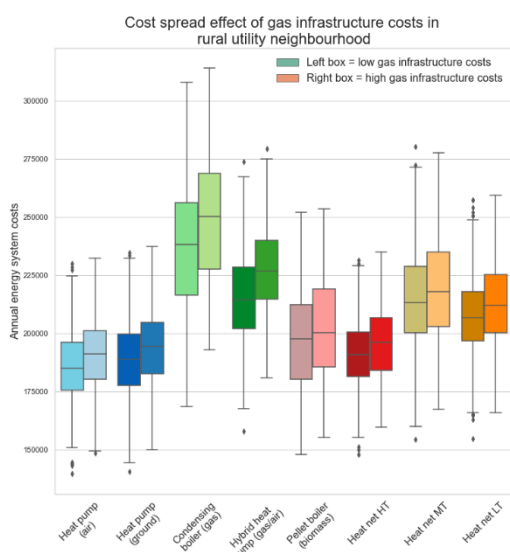
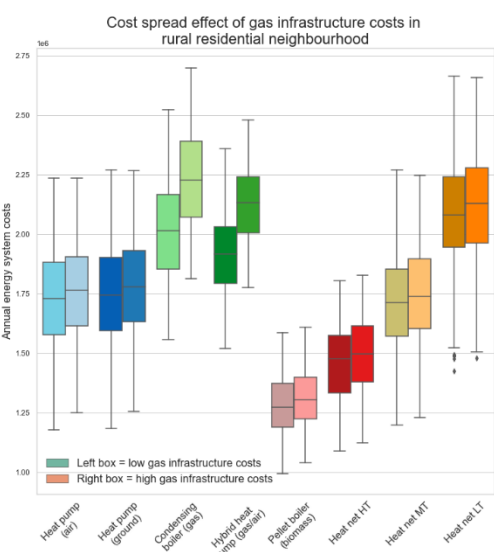
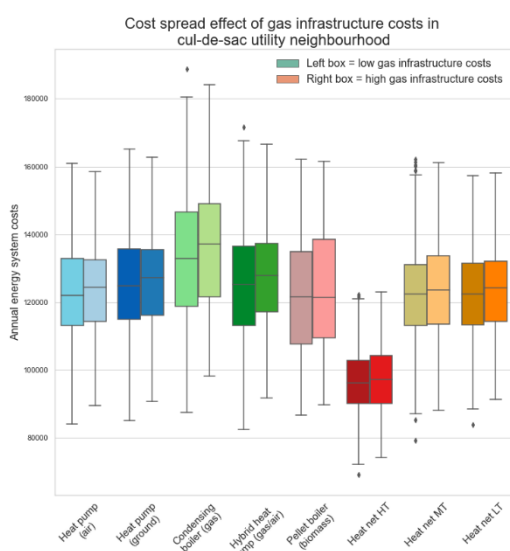
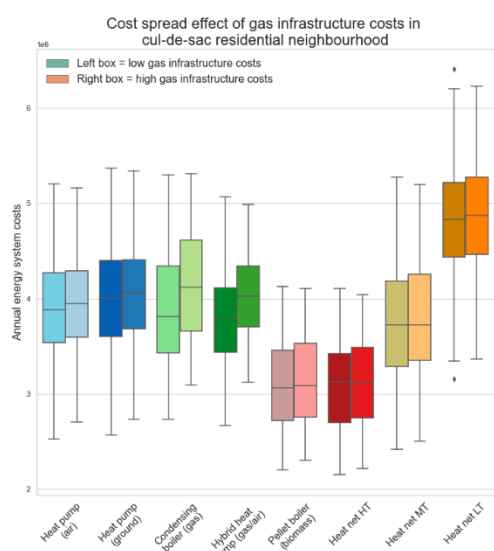
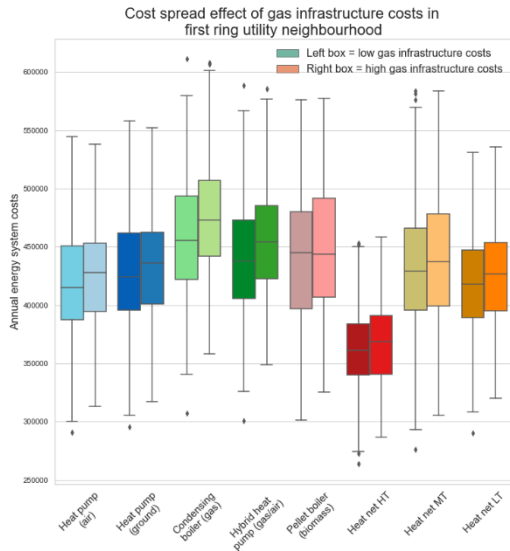
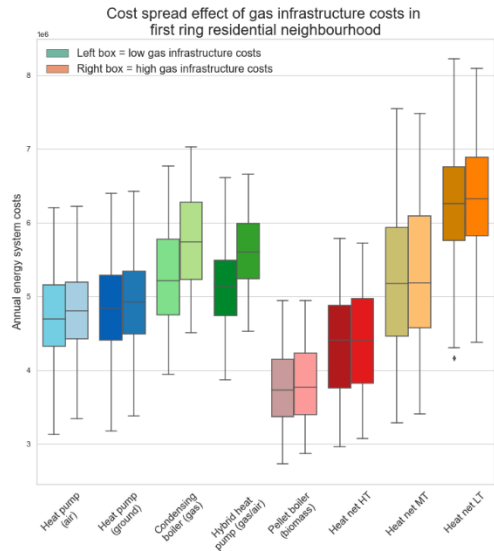
Heating system costs



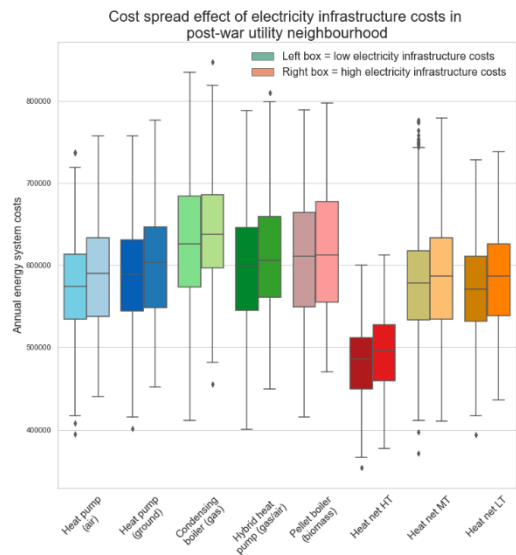
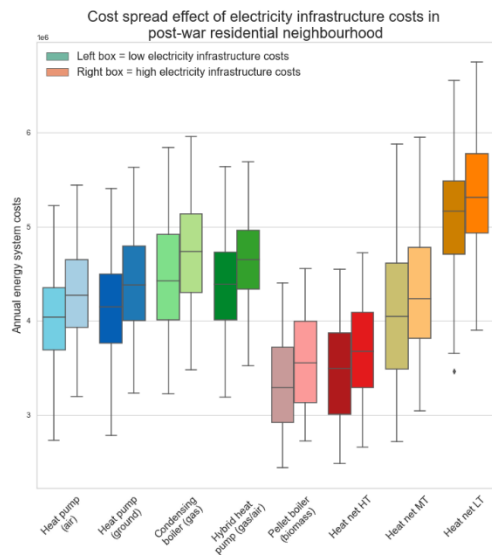
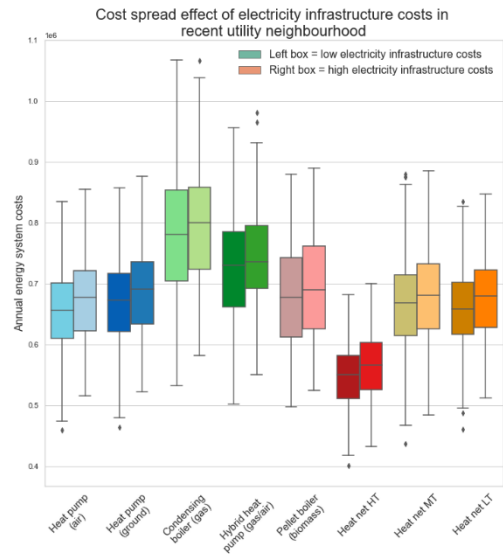
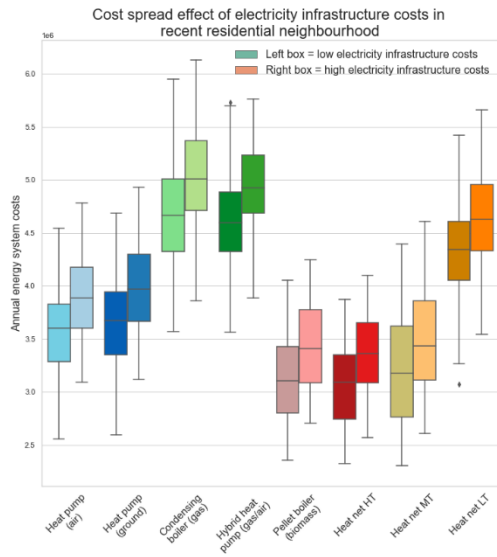


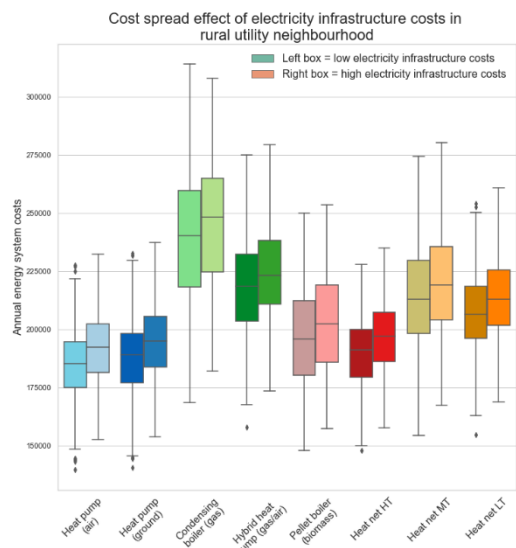
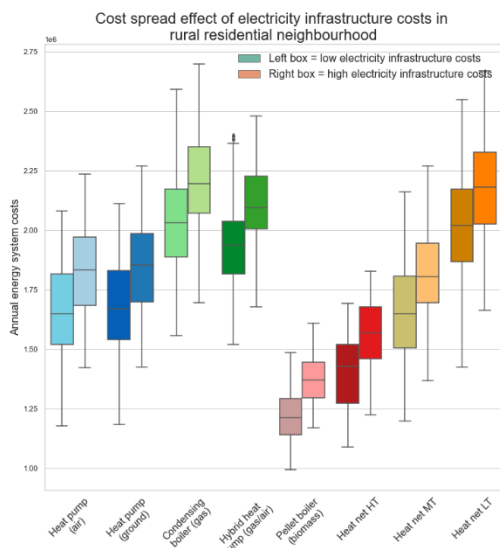
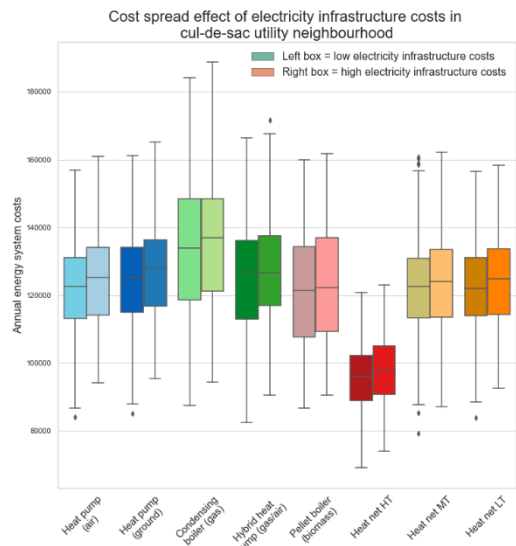
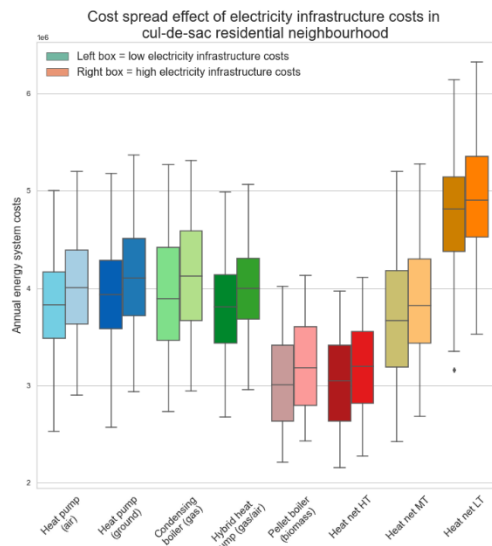
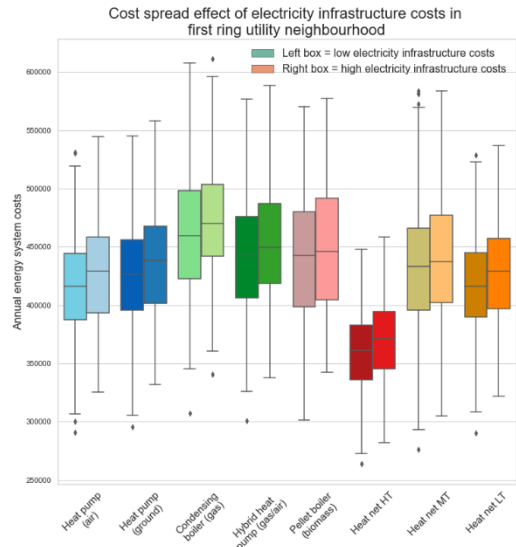
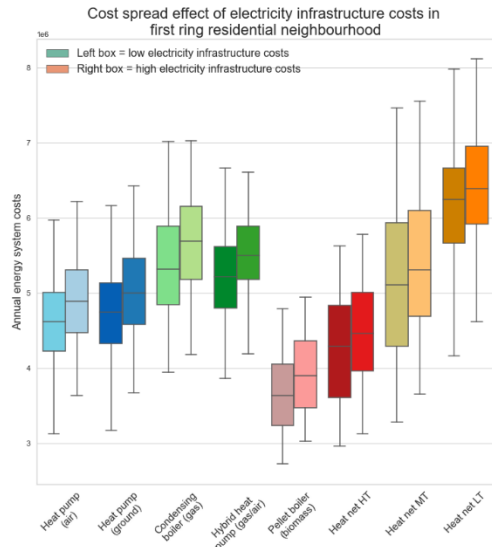
Gas infrastructure costs



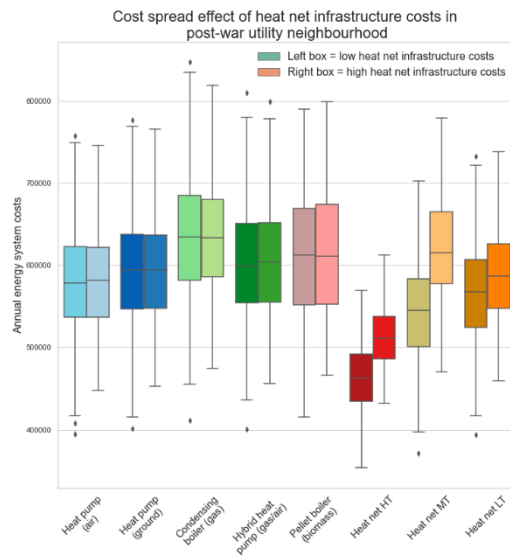
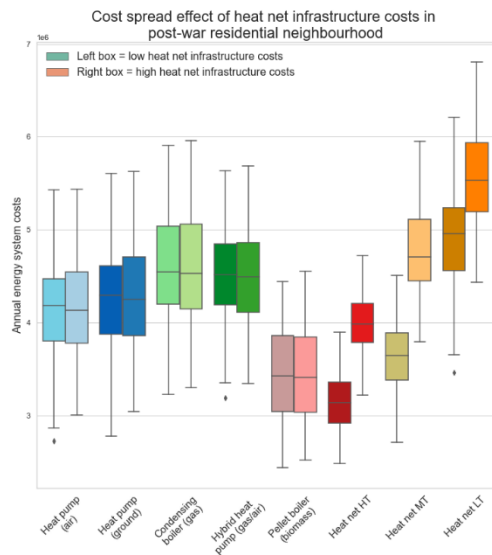
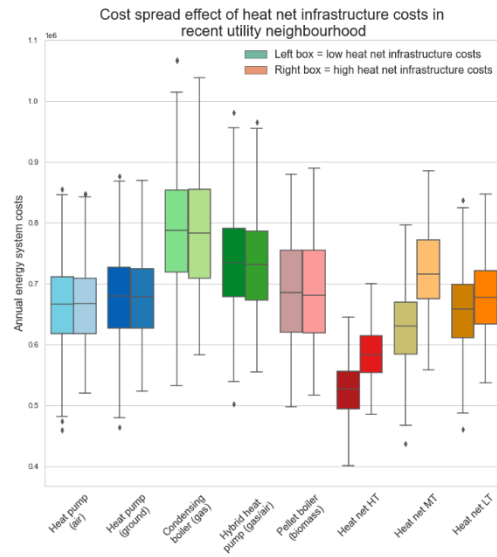
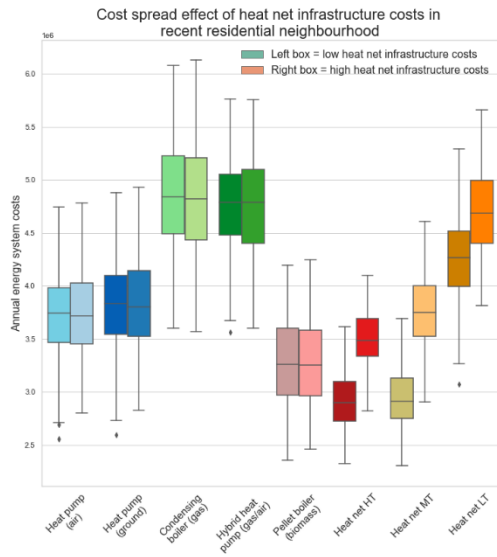


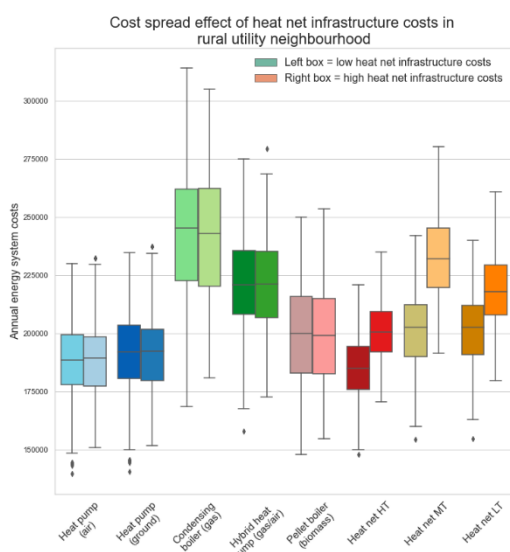
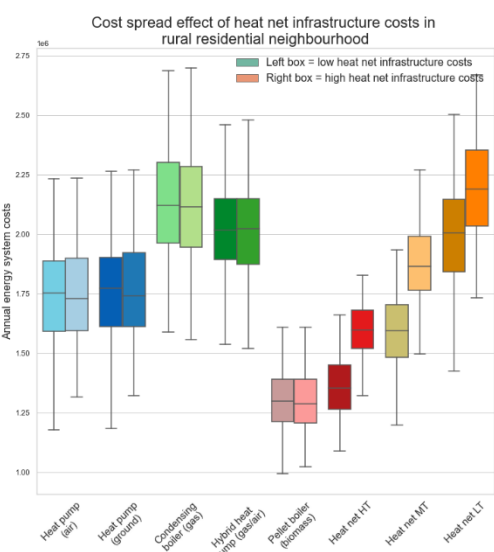
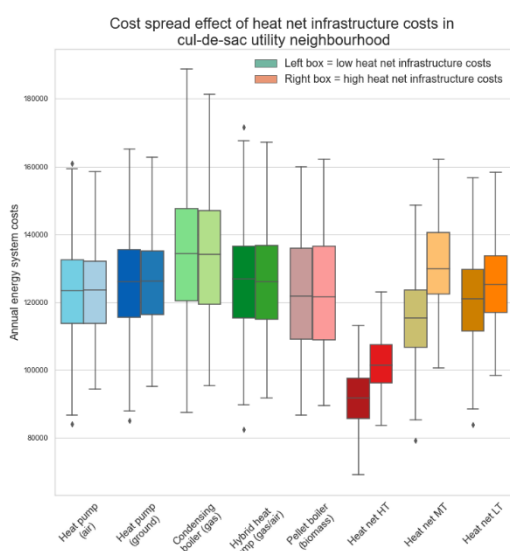
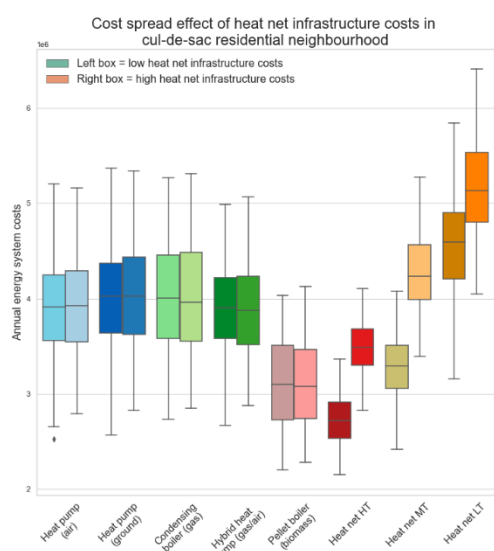
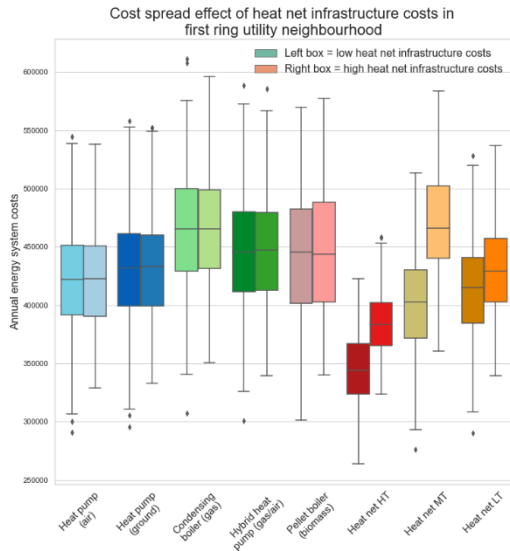
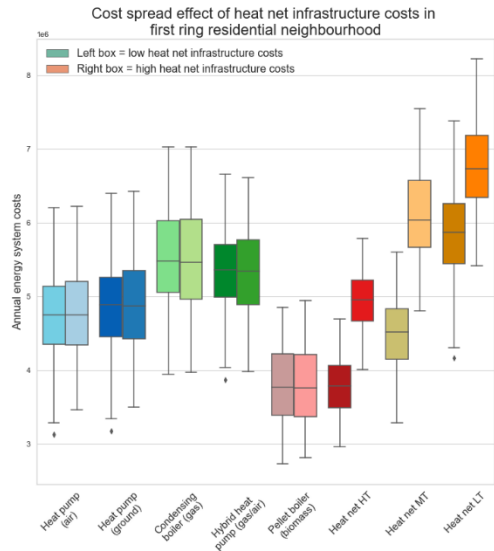
Electricity infrastructure costs



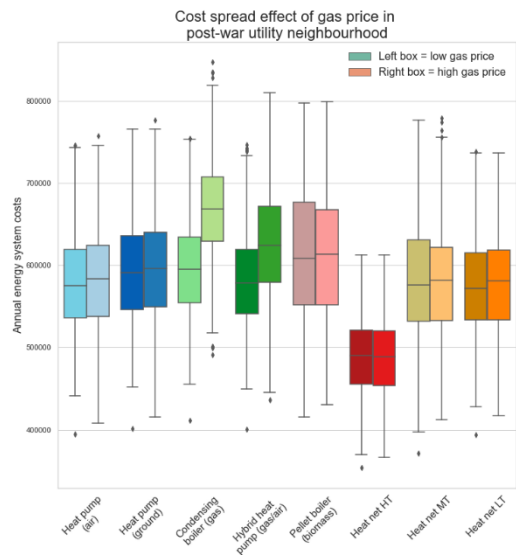
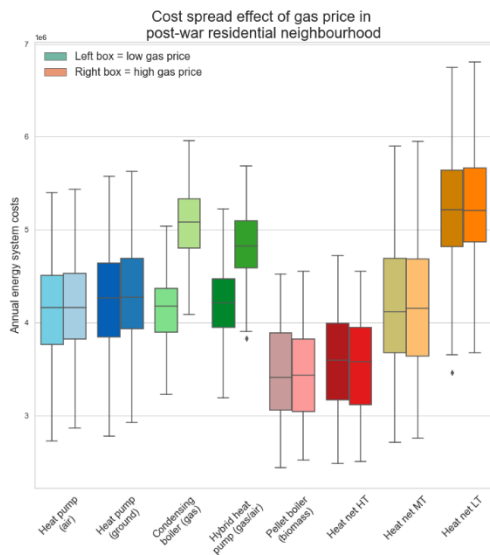
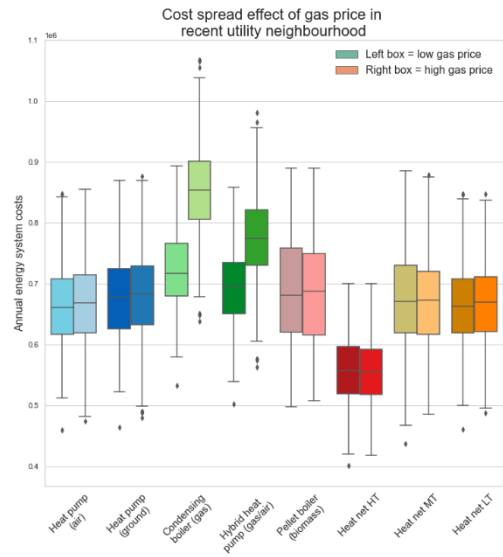
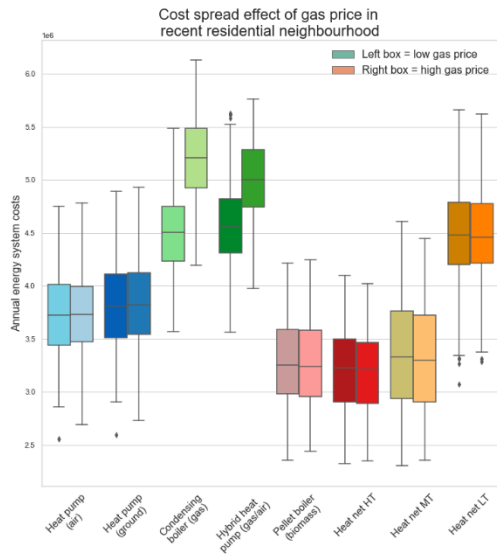


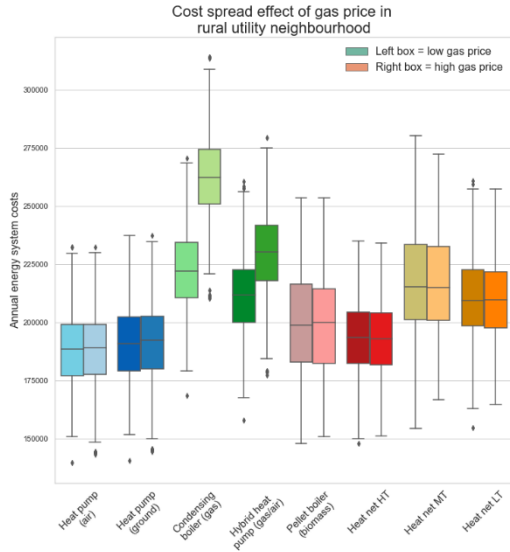
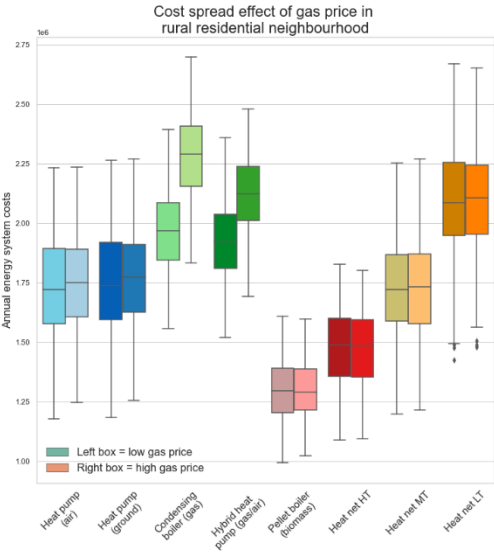
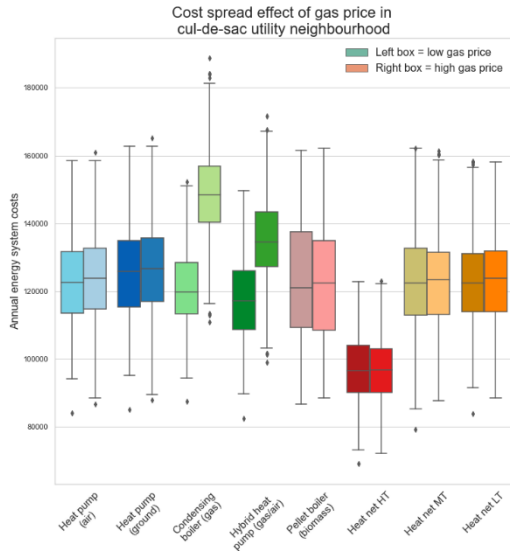
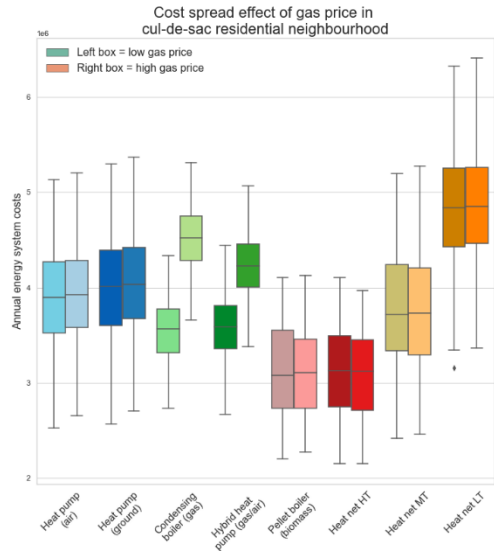
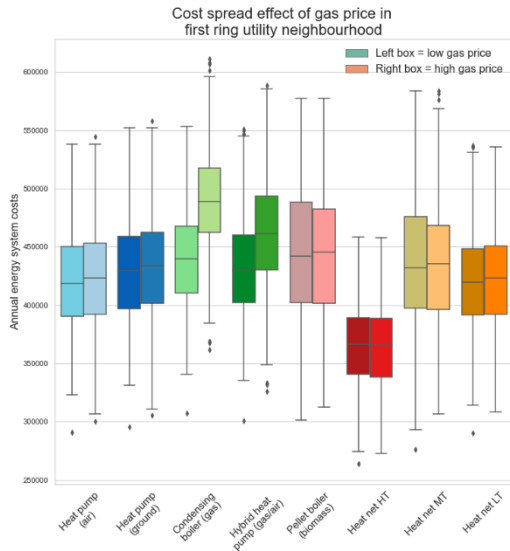
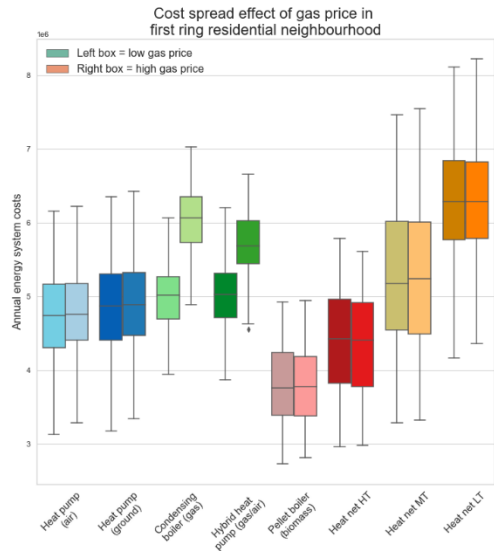
Heat net infrastructure costs





Gas price





Electricity price

