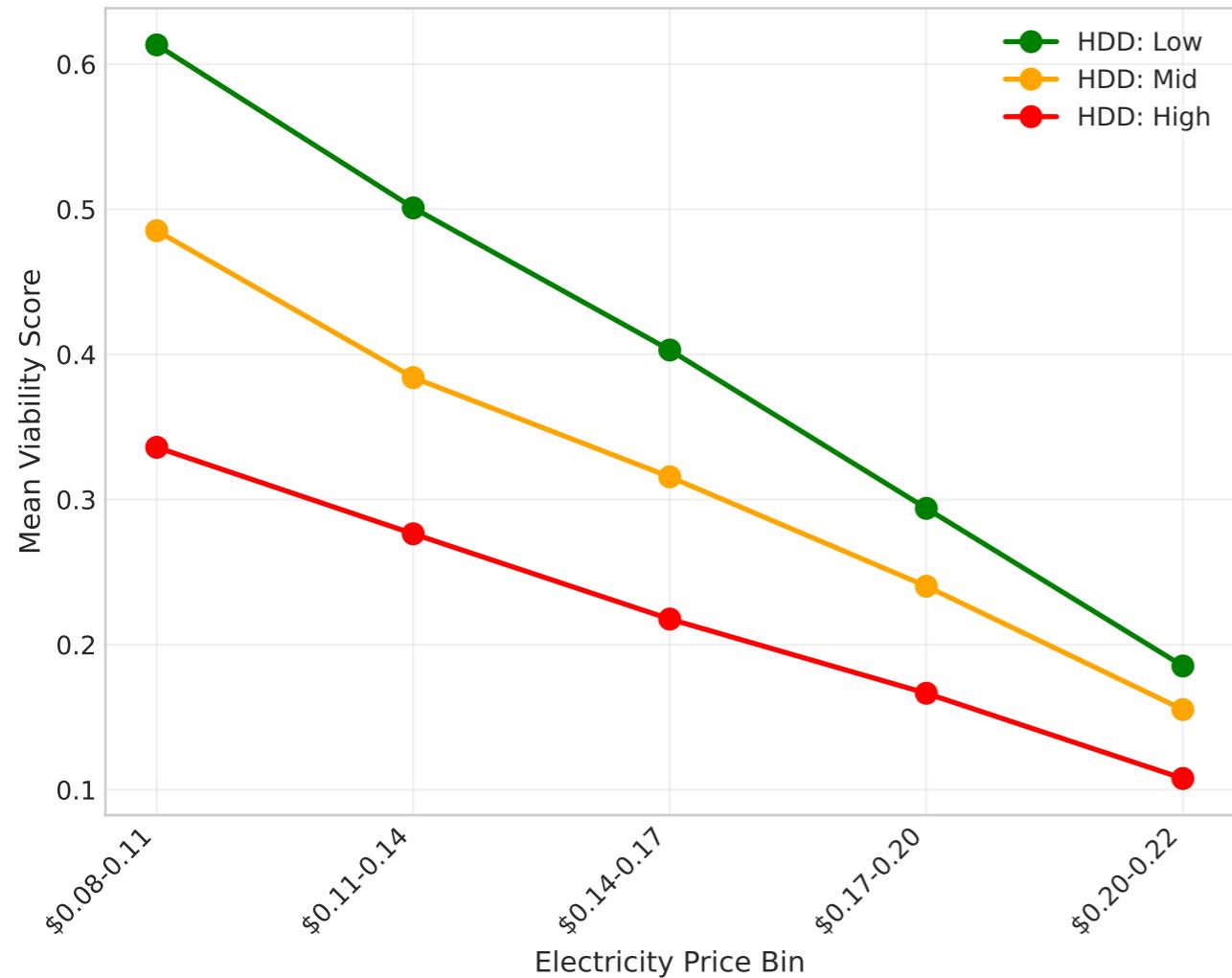
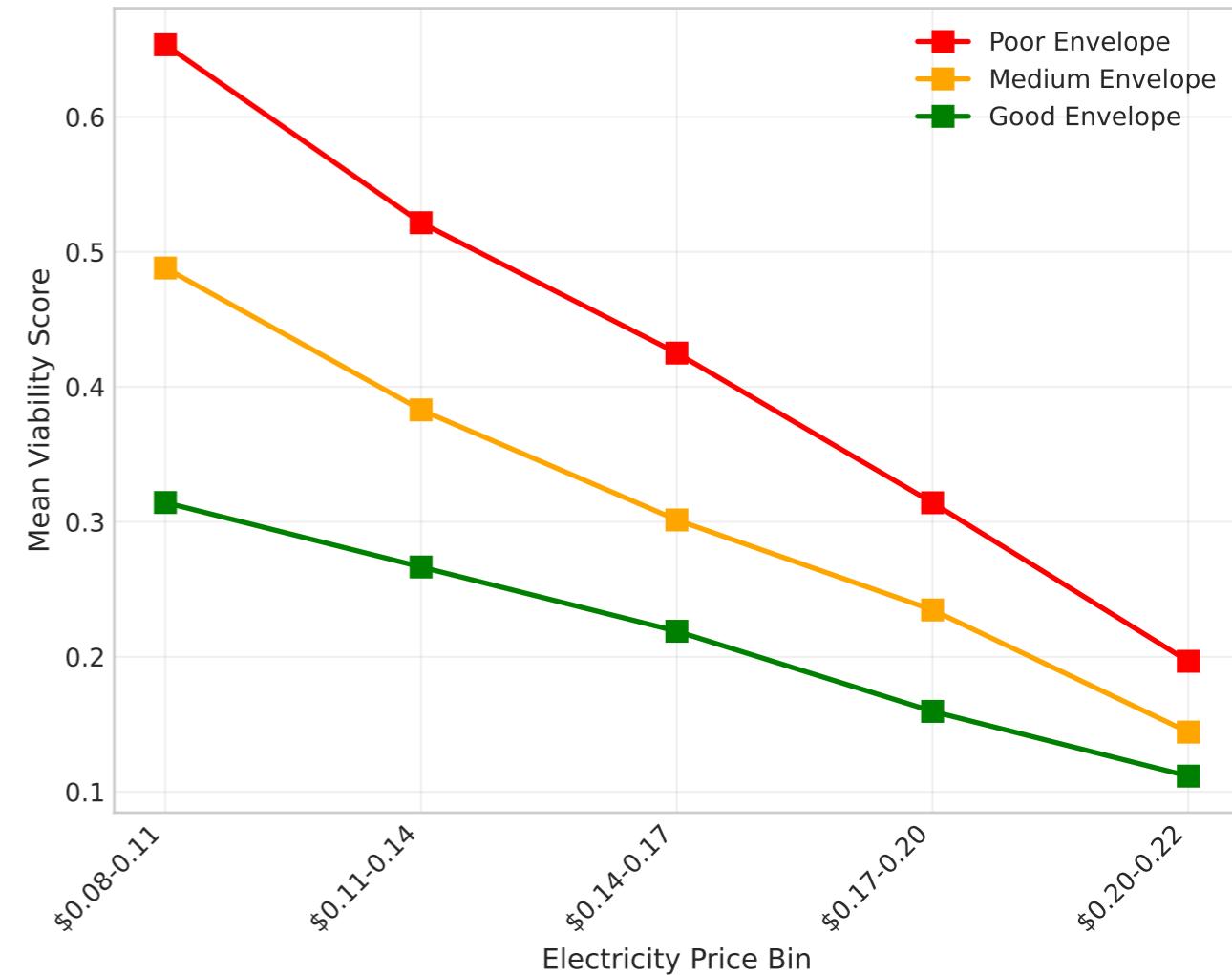


**Figure 13: Interaction Effects Analysis  
(Supporting SHAP interaction interpretation)**

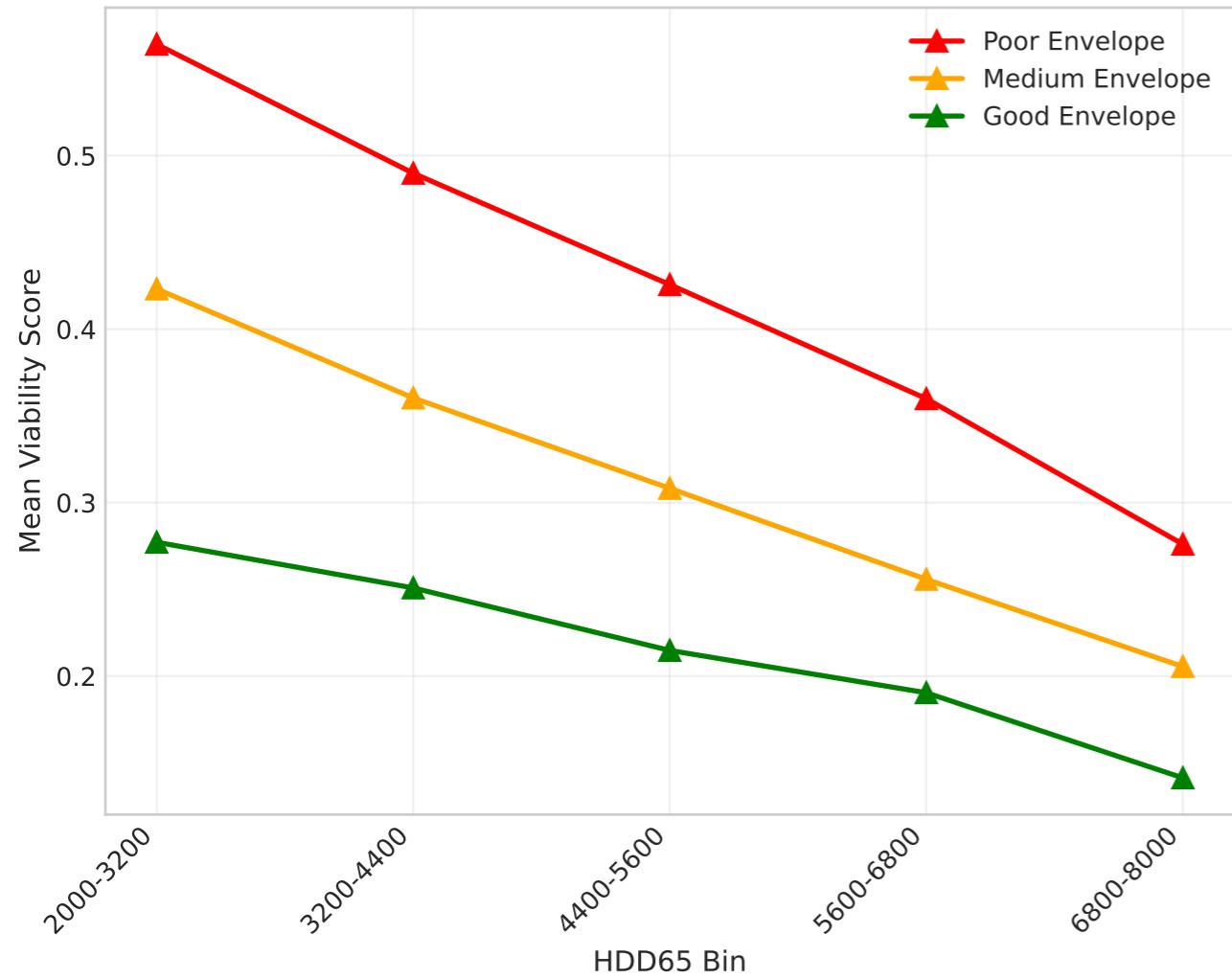
**(a) HDD × Price Interaction**



**(b) Envelope × Price Interaction**



**(c) Envelope × HDD Interaction**



**(d) Three-Way Interaction Summary**

