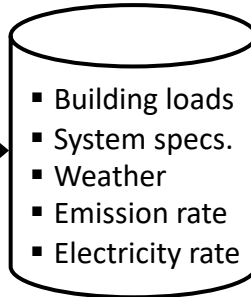


Real-World Grid-Interactive Community

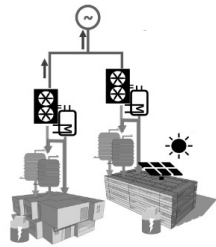


Database



Virtual Community

Environment



Control Agent

- RL
- MPC
- RBC

Preprocessing

- Baseline Calibration
- State space design
- Action space design
- Reward design
- Hyperparameter tuning

Experiment Simulations

Evaluation KPIs

Select Optimal Control Policies

Derive Explainable Policies