

## Previous Work

Giovanni Bianchi: Single Evaluation of Building Energy Demand

Johannes Hofer: Detailed Model and Evaluation of PV Electricity Production

Prageeth Jayathissa: Parametric Thermal Model with Estimated PV

## Master Thesis Goals

Combine to create Single Model  
Design Parametric Simulation Tool  
Evaluate multiple Scenarios

## Long Term Goals

Implementation of  
Model Predictive Control (MPC)  
for Prototypes of ASF

Detailed Parametric Model  
for ASF Design Considerations

- Add Bypass Diodes and String Connection to PV Model
- Implement RC Model
- Include Energy for Actuation

In Depth Analysis of  
ASF Performance

- Extended Evaluation of individual Actuation
- Iterative Algorithm to increase Accuracy
- Life Cycle Analysis