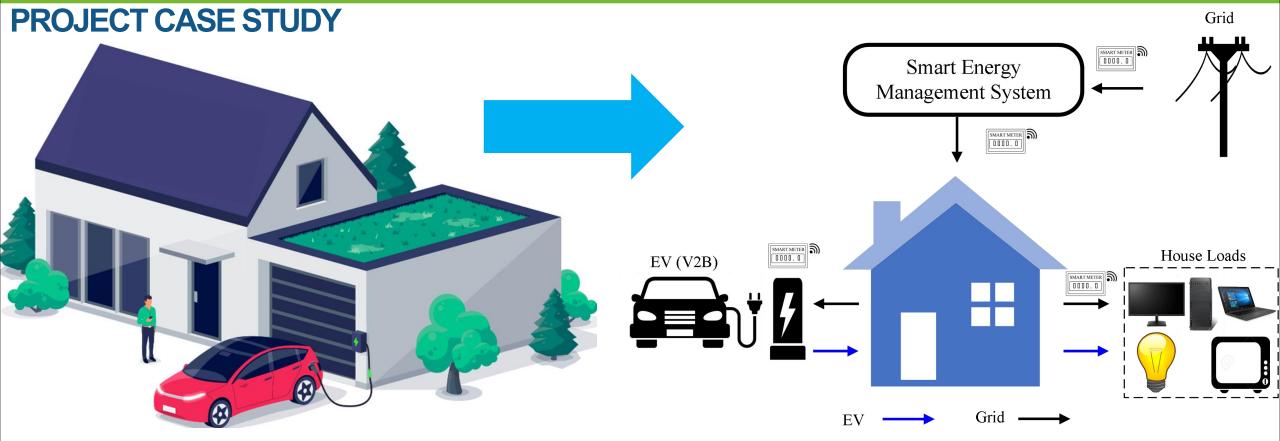
## **PROJECT CASE STUDY**



- > Step 1: Choose the type of user (house or apartment) to create the load profile.
- > Step 2: Where the user is located in terms of Energy Price (SE1, SE2, SE3, SE4)?
- Step 3: Which user type is defined in your project (student, nurse, farmer, professor)?
- > Step 4: Make an assumption for the SoC% in the morning and afternoon.
- Step 5: Add a PV system production in the project (Scenario 2).

Max Power	Energy	Max PV	Daily V	BESS	BESS	EV Battery	EV Battery	Daily	Daily	Daily	
for the User	Price Zone	Production	Production	Capacity	CH & DIS	Capacity	SoC (M & E)	Energy from	<b>Energy Cost</b>	Energy from	
								Grid		Grid	
(30	enari	03).		Battery Ma	ınagement Servi	e Course (BMS)			2/8/20	24	1



OF=Min (Total Energy Costs)

UNIVERSITY Of SKÖVDE Pgrid(t) =
PgridtoHouse(t) +

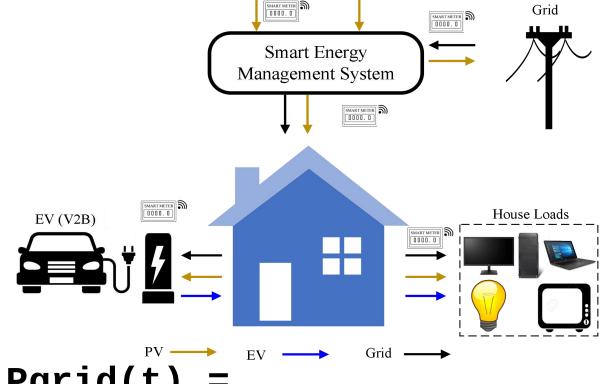
				Daridtofult						
Max Power for the User	Energy Price Zone	Max PV Production	Daily PV Production	BESS Capacity	BESS CH & DIS	EV Battery Capacity	EV Battery SoC (M & E)	Total Daily Energy from Grid	New Daily Energy from Grid	Daily Energy Cost
6.5	SE3	NE	NE	NE	NE	44	83, 40	92,105	78,53	49

## **PROJECT CASE STUDY**



OF=Min (Total Energy Costs)

UNIVERSITY Of Skövde



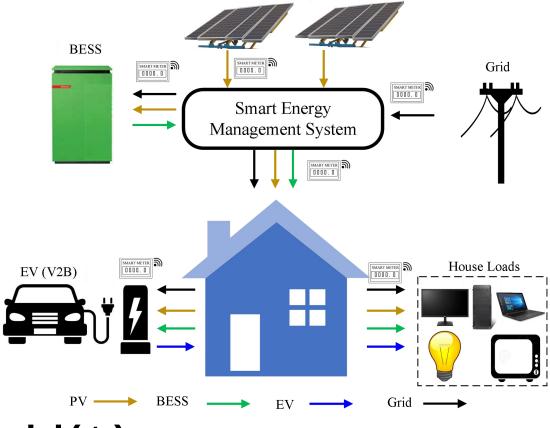
PV System

Pgrid(t) =
PgridtoHouse(t) +

Max Power for the User ECOST	Energy Price Zone	Production	Daily PV Production	BESS Capacity	BESS CH & DIS	EV Battery Capacity	EV Battery SoC (M & E)	Total Daily Energy from Grid	New Daily Energy from Grid	Daily Energy Cost
6.5	SE3	11. 71	51.56	NE	NE	44	85, 40	89	78 .53	32

## **PROJECT CASE STUDY**





PV System

OF=Min (Total Energy Costs)

UNIVERSITY Of Skövde Pgrid(t) =
PgridtoHouse(t) +

				DAKIATAL VIT						
Max Power for the User	Energy Price Zone	Max PV Production	Daily PV Production	BESS Capacity	BESS CH & DIS	EV Battery Capacity	EV Battery SoC (M & E)	Total Daily Energy from Grid	New Daily Energy from Grid	Daily Energy Cost
6.5	SE3	11	56	18	6.4, 5.84	44	85, 40	89	49	40