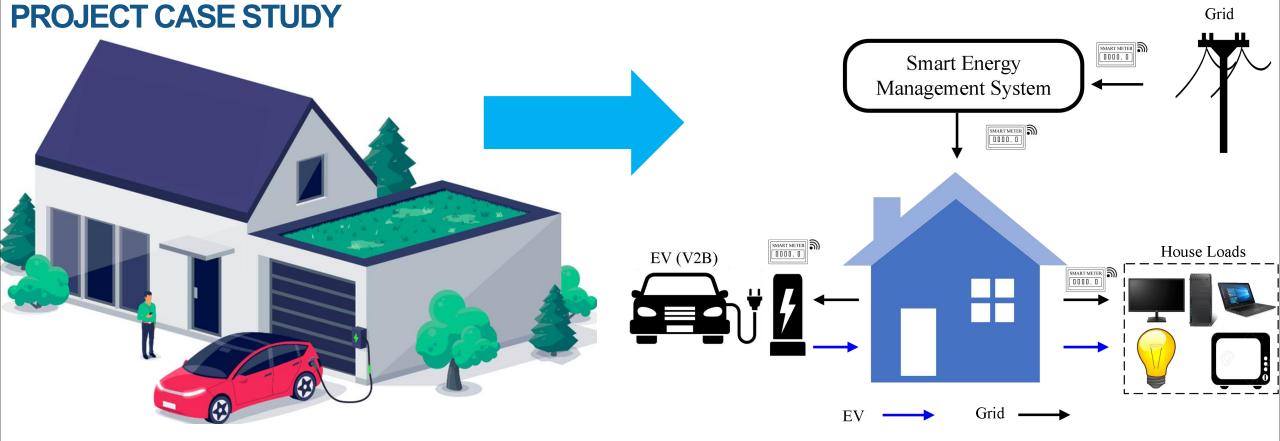
## PROJECT CASE STUDY

Scenario 2

- > 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	<b>Energy Price</b>	Max PV		Daily PV	BESS	BESS	EV Battery	EV Battery	Daily Energy	Daily Energy	<b>Daily Energy</b>
for the User	Zone	Productio	ı P	roduction	Capacity	CH & DIS	Capacity	SoC (M & E)	from Grid	Cost	from Grid
Ste	$g_{E1}6:$	Add a	P	v sys	stem p	roduct	lon li	n the	projec	) T	

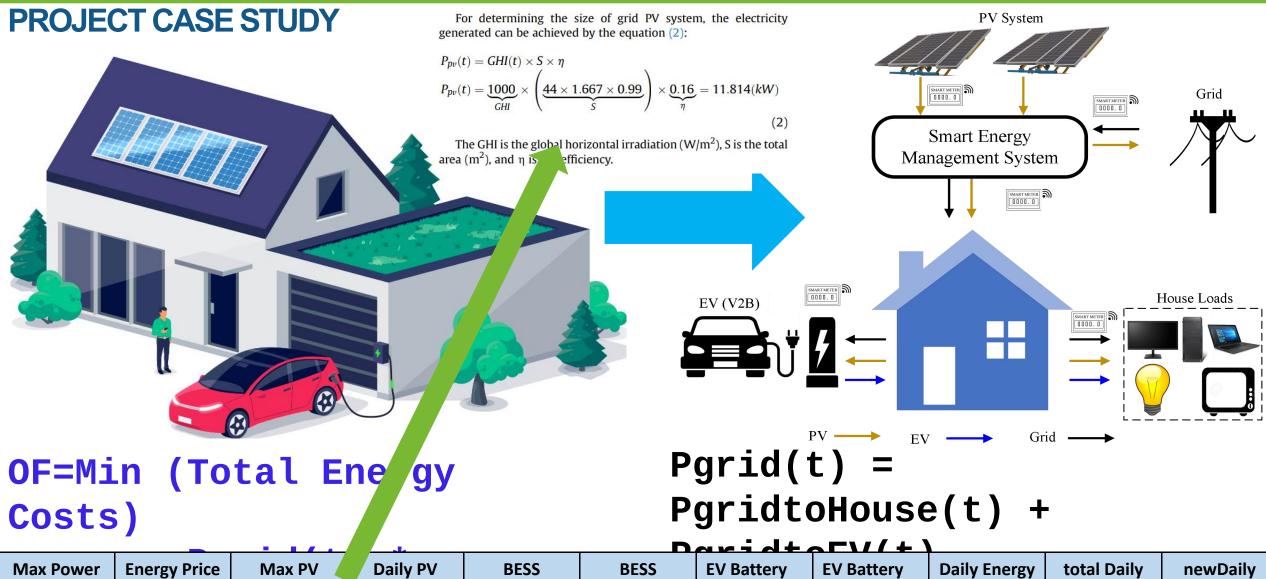


## OF=Min (Total Energy Costs)

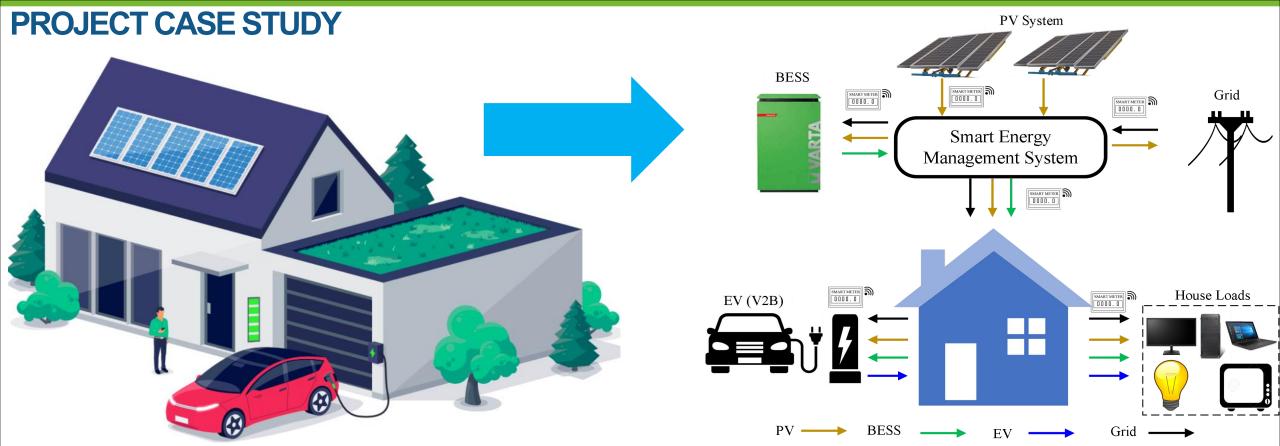
Pgrid(t) =
PgridtoHouse(t) +

Daridto FV/ +

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 Cost	Daily Energy from Grid
6,5	SE3	NE	NE	NE	NE	44	85, 40	89	78,53	49
Battery Management Service Course (BMS)										2



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)	Daily Energy from Grid	total Daily Energy Cost	newDaily Energy from Grid
6.5	SE3	11,71	51.56	NE	NE	NE	76, 40	89	49	73



OF=Min (Total Energy Costs)

Pgrid(t) =
PgridtoHouse(t) +

			UNKINE I							
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)	Daily Energy from Grid	total Daily Energy Cost	new Daily Energy from Grid
6.5	SE3	11	56	18	18	44	8540	89	49	73