

My Projects > tesis


Run List	Run Charts	Project Defaults	Project Details	Project Members	Utility Information	Weather Station	 Notes
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Run Name: house\_1\_comprehensive.xml\_Lighting\_0.37\_W/sqft

Energy and Carbon Results	US EPA Energy Star	Water Usage	<b>Photovoltaic Analysis</b>	LEED Daylight	3D VRML View	Export and Download Data Files	Design Alternatives
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**Payback Calculation Settings**

Adjust the payback settings to improve your photovoltaic payback period.

Panel Type  Single Crystalline - 13.8% efficient ▼	Installed Panel Cost €5.00 €690.38 (per Watt) (per m²)	Applied Electric Cost €0.09 (per kWh)	Max Payback Period 20 (per surface, in years)	<input type="button" value="Update"/>
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**Installed Panel Summary**

**Note:** No federal and state energy incentives, tax breaks, loan solutions or system derating factors are considered in this payback calculation.

Installed Panel Cost	Installed Panel Area (m²)	Annual Energy Production (kWh)	Potential Cost Savings (per year)	System Payback (years) 
€0.00	0	0	€0.00	<b>24</b>

**Photovoltaic Surface Analysis**

**Note:** The calculation assumes that BIPV panels used on windows will have a lower efficiency than standard wall and roof panels.

Surface Variables					Shading Variables		Summary			
ID	Type	Direction	Tilt (degrees) 	Panel Area (m²)	Solar Exposure 	Obstruction Shading 	Annual Energy (kWh) 	Potential Cost Savings		Payback per Surface (years)
								per year/m²	per year	
aim15330	Shade	W	30	13	72.6 %	0.0 %	3,131	€22.48	€282	23.9
aim15360	Shade	W	30	59	72.5 %	0.0 %	14,670	€22.45	€1,320	23.9
aim15384	Shade	N	30	53	74.4 %	1.7 %	13,332	€22.49	€1,200	23.9
aim15474	Shade	S	30	51	74.4 %	1.0 %	12,858	€22.53	€1,157	23.9
aim15339	Shade	W	30	17	72.5 %	0.0 %	4,225	€22.43	€380	24.0
aim15452	Shade	S	30	37	74.0 %	3.2 %	9,151	€22.38	€824	24.0
aim15394	Shade	N	30	52	73.7 %	5.2 %	12,782	€22.23	€1,150	24.2
aim15349	Shade	W	30	48	73.3 %	3.8 %	11,925	€22.14	€1,073	24.3
aim15416	Shade	E	30	121	70.8 %	14.2 %	28,334	€21.10	€2,550	25.2
aim15428	Shade	E	30	45	70.7 %	14.2 %	10,533	€21.10	€948	25.2
aim15442	Shade	S	30	10	68.1 %	1.1 %	2,329	€20.73	€210	25.5
aim15463	Shade	S	30	17	68.0 %	1.0 %	4,022	€20.71	€362	25.5

aim15 374	Shade	N	30	13	64.0 %	1.1 %	2,777	€19.61	€250	26.7
aim18 353	Shade	FLAT	0	43	63.0 %	16.3 %	9,052	€19.10	€815	27.2
aim15 406	Shade	E	30	7	62.4 %	0.0 %	1,448	€18.89	€130	27.4
aim17 010	Shade	W	90	12	40.0 %	14.3 %	1,672	€12.90	€151	36.3
aim33 46	ExteriorWall	W	90	3	40.0 %	12.8 %	406	€12.92	€37	36.3
aim11 538	Shade	W	90	5	40.1 %	12.6 %	664	€12.94	€60	36.3
aim14 691	Shade	W	90	8	39.9 %	13.5 %	1,169	€12.87	€105	36.4
aim45 65	ExteriorWall	W	90	6	39.8 %	15.3 %	917	€12.85	€83	36.5

