



Let the Light be Life™

Lighting system ATIK™

COMPARATIVE TABLE STREETLIGHT

This comparative table between a **traditional streetlight** connected to grid, a **traditional solar streetlight JUPITER™ 26 Sox with photovoltaic modules** and the **newest solar streetlight system ATIK™** manufactured by **Istar Solar®**, shows not only the efficacy of the system and its long lifetime over years, but also all advantages of this new streetlight and the savings, zeroing the costs of bills and almost completely the maintenance costs, with the profit after just a short time.

The quick pay-back time gives immediate economic results without waiting too many years.

ATIK™ system is composed by the newest generation led lamps, high luminous concentration and very low consumption, studied and produced by **Istar Solar®** after many researches and studies in the field of **electronic high intensity led lighting**, with self-stabilizer circuit and powered by high efficiency photovoltaic modules.

In order to make a real comparison and show the big advantages of **ATIK™**, we have compared the 3 systems on the table here below reported :

- **traditional streetlight system** connected to grid, 150W (HPS) lamp
- Solar streetlight **JUPITER™ 26** with Sox lamp 26W
- Solar streetlight **ATIK™**

	Traditional Streetlight	Solar streetlight Jupiter™ 26	Solar Streetlight Atik™
Lamp	HPS Sodium High Pressure	SOX Sodium Low Pressure	Ultrabright LED
Color of light	Yellow	Yellow	White
Average lifetime of lamps in hours	4000-5000 (1 year)	8000 (2 years)	100.000 (22 years)
Working voltage in Volts	220	12/24	12
Power and lamp consumption in Wh	150	26	8
Hours of night-light	12	12	12
Number of modules	0	2 x 90 Wp	1 x 60 Wp
Number of batteries	0	2 x 110 Ah	1 x 55 Ah
Light intensità with 7 mt pole in Lux	8	10	13
Power absorbed in 12 hours of functioning in Wh	1.800,00	312	96
Power absorbed in 1 year in Kwh	657,00	114	35
Annual maintenance (change lamp and/or batteries)	€ 120,00	€ 85,00	€ 7
Total cost of energy consumptions in 1 year	€ 131,40	ANY COST	ANY COST
Total annual costs; consumes + maintenance	€ 251,40	€ 85,00	€ 7,00
Total annual costs for 100 streetlights	€ 25.140	€ 8.500,00	€ 700,00

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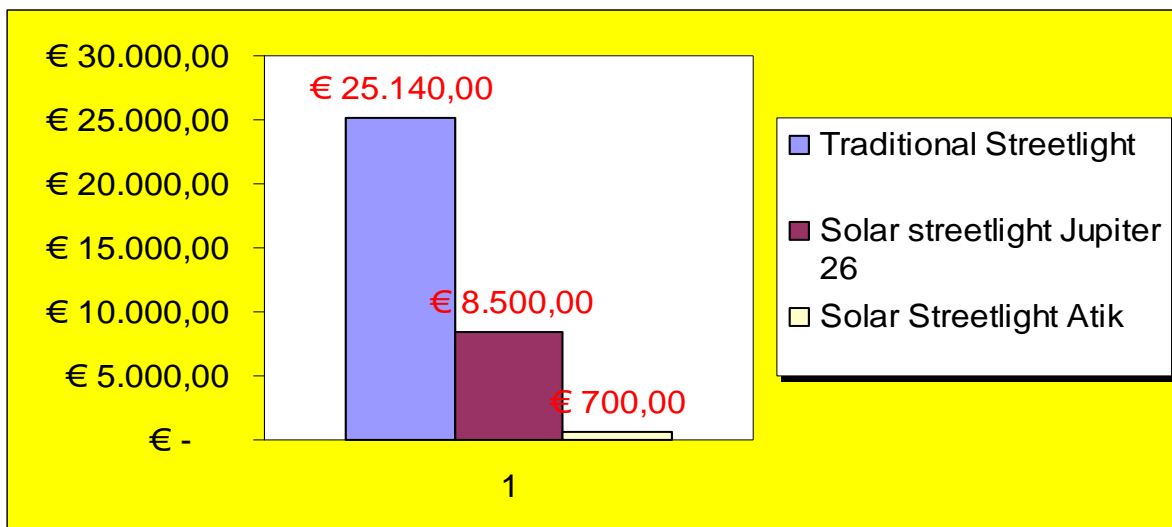
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Table of maintenance and bill costs



As we can see from these tables the amortization is very quick, and therefore the profit.

Such calculations have been made considering the consumptions and maintenance costs in 1 year, but it is also necessary to take into consideration that our system ATIK has an average lifetime of 25-30: if we multiply the annual costs by the average lifetime, the profit increases very rapidly.

Moreover, don't forget that we have not included on the costs of bill electricity all the charges such as revenue taxes, transport costs, additional taxes, but most of all the percentage of increase in the cost of energy already planned for the next years. All these things reduce the amortization time of investment.



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Advantages of ATIK™ system :

- Completely autonomous and it works also in case of black out;
- Switch on and off of lamps with morning-light function built-in on the electronic circuit;
- Immediate switch on of lamps without pre-heating;
- Cool white light without flickering;
- Long lifetime of our lamps: over 20 years;
- Long lifetime of our PV modules: over 30 years;
- Only 1 module 60Wp is needed in comparison with the 2 modules 90Wp of Jupiter;
- 1 battery 55Ah instead of 2 batteries 110Ah of Jupiter;
- Led used do not run down, while Sox lamps gradually loose their luminous efficiency over time due to the saturation of vapours;
- In case some Led of our lamp ATIK do not function, all other led are on and keep lighting;
- In case of breakage the Sox is toxic while led are unbreakable and not toxic;
- Very useful where the grid is missing;
- High savings of money and time due to the absence of works for excavations, cables connections, etc...;
- Non dangerous system: it functions at 12Volts, therefore no risk of electric shock for high voltages, short circuit, electric discharge, etc...;
- All components are light-weight;
- No bills to pay;
- Quick pay-back time;

..... and after all.... we use the clean energy from the Sun, thus further contribute to reduce the pollution of the planet...

“with 100 ATIK systems we avoid to emit on the atmosphere

about 33.000 Kg of CO2 every year!!”