

Company
Logo

COMPANY NAME EXMP.

Solar Street 9
123-456 Sunny City

M: info@easysolar.pl

T: 123-456-789

25-03-2016

RESIDENTIAL PV SYSTEM - FOTO 15.6 kWp

PREPARED FOR:

Customer name

customer@mail.com
Warsaw Poland

Customer e-mail

LOCATION

WARSAWA, POLAND (52.23,21.01)



DC POWER

15.6 kWp

NO. OF MODULES (Axitec GmbH : AXIpremium AC-260M/156-60S)

120 units

INVERTERS POWER

15 kW AC

AVOIDED EMISSIONS OF CO2

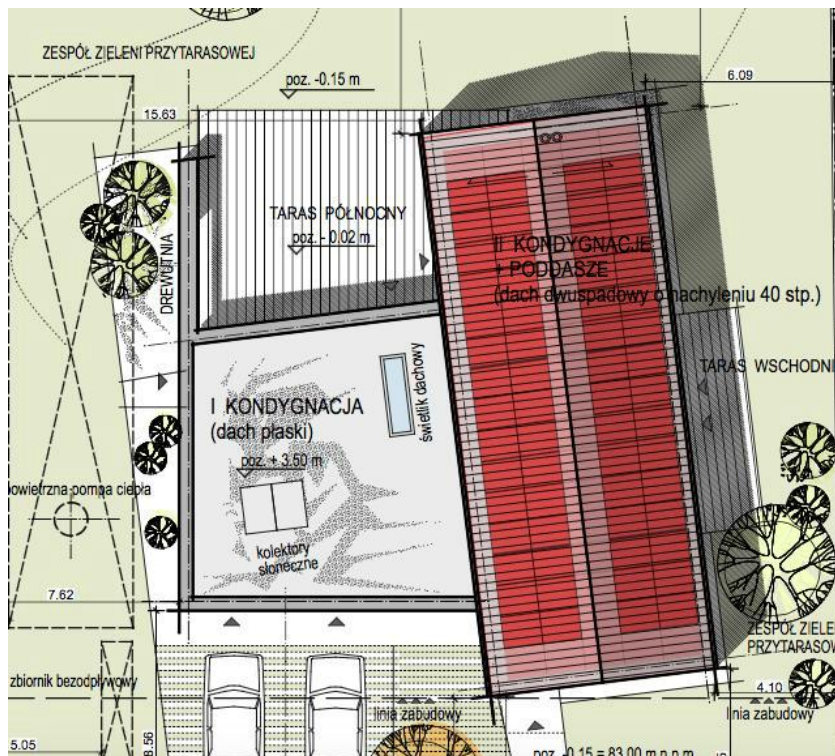
4.03 t/annually

ENERGY PRODUCTION

10.86 MWh/year

PV SYSTEM DESIGN

TECHNICAL PROJECT



NO. OF MODULES (AXITEC GMBH: AXIpremium AC-260M/156-60S)

60 units

MODULE POWER

260 Wp

INTER-ROW DISTANCE

0 cm

AZIMUTH

30

ANGLE

89°

DC POWER

15.6 kW DC

AREA

195.23 m²

WESTERN ROOF



NO. OF MODULES (AXITEC GMBH:
AXIPREMIUM AC-260M/156-60S)

30 units

MODULE POWER

260 Wp

INTER-ROW DISTANCE

0 cm

AZIMUTH

30

ANGLE

89°

DC POWER

15.6 kW DC

AREA

195.23 m²

EASTERN ROOF



NO. OF MODULES (AXITEC GMBH:
AXIPREMIUM AC-260M/156-60S)

30 units

MODULE POWER

260 Wp

INTER-ROW DISTANCE

0 cm

AZIMUTH

30

ANGLE

89°

DC POWER

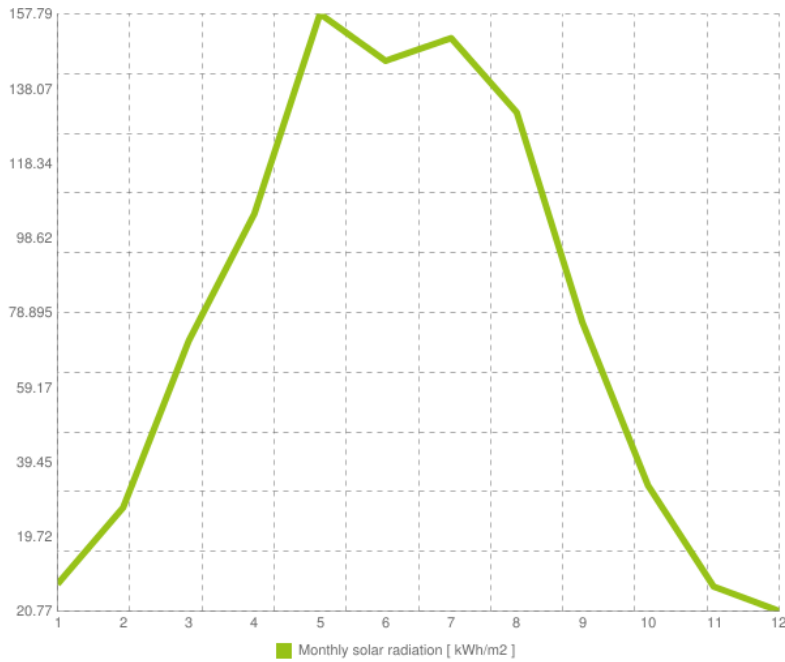
15.6 kW DC

AREA

195.23 m²

AVERAGE SOLAR RADIATION FOR

WARSZAWA, POLAND



QUARTER 1

154.26 kWh/m2

QUARTER 2

416.69 kWh/m2







QUARTER 3

374.37 kWh/m2

QUARTER 4

96.77 kWh/m2

ENERGY PRODUCTION OVER THE NEXT DAYS BASED ON WEATHER FORECAST

DAY	ENERGY LEVEL	ESTIMATED PRODUCTION
2016-03-25 		10.27 kWh
2016-03-26 		6.76 kWh
2016-03-27 		33.25 kWh

INVERTER DESIGN



SOLAREEDGE
TECHNOLOGIES (SE15K)

x 1



WESTERN ROOF AXITEC
GMBH (AXIPREMIUM AC-
260M/156-60S)

x 15



WESTERN ROOF AXITEC
GMBH (AXIPREMIUM AC-
260M/156-60S)

x 15



EASTERN ROOF AXITEC
GMBH (AXIPREMIUM AC-
260M/156-60S)

x 15



EASTERN ROOF AXITEC
GMBH (AXIPREMIUM AC-
260M/156-60S)

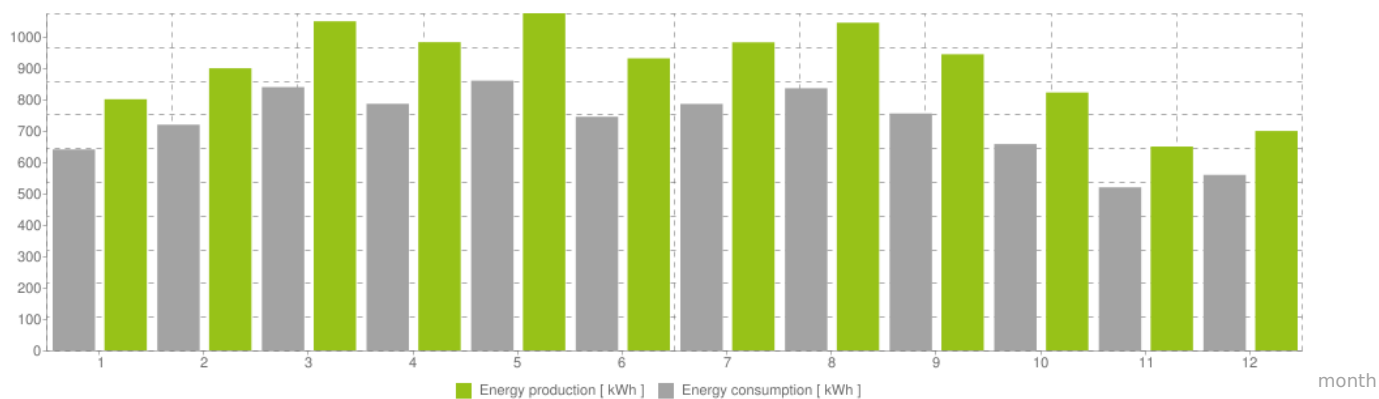
x 15

15.6 kWp

DC/AC = **104** %

ENERGY PRODUCTION IN PV SYSTEM

Month	Energy production	Energy consumption
1.	799.44 kWh	639.55 kWh
2.	898.02 kWh	718.42 kWh
3.	1047.56 kWh	838.05 kWh
4.	981.11 kWh	784.89 kWh
5.	1073.23 kWh	858.58 kWh
6.	929.58 kWh	743.66 kWh
7.	980.59 kWh	784.48 kWh
8.	1042.99 kWh	834.4 kWh
9.	942.59 kWh	754.07 kWh
10.	820.87 kWh	656.7 kWh
11.	648.78 kWh	519.02 kWh
12.	698.29 kWh	558.63 kWh



ENVIRONMENT / AVOIDED CO2 EMISSION EQUAL TO



527
TREES



0.35
HA OF FOREST



33.29
THOUSAND. LITERS OF FUEL



475.56
THOUSAND. KM MILEAGE

ENVIRONMENT / AVOIDED EMISSIONS IN NUMBERS



4.03
T/YEAR



38.67
KG/YEAR

CUSTOMER PROPOSAL

Name/description	Quantity
INVERTERS	1
MODULES	60
ADDITIONAL ELEMENTS	3

TOTAL (NET): **24,180.00** USD

TOTAL (GROSS): **25,872.60** USD

ADDITIONAL INFORMATION

PRODUCT

Name/description	Manufacturer	Unit	Quantity
MODULES			
AXIPREMIUM AC-260M/156-60S	AXITEC GMBH	unit	60
INVERTERS			
SE15K	SOLAREEDGE TECHNOLOGIES	unit	1
ADDITIONAL ELEMENTS			
SOLAR CABLES AND ELECTRICAL PROTECTION		unit	1
SOLAR CONSTRUCTION		unit	1
ALUMINUM CONSTRUCTION WITH A 30 YEAR WARRANTY			
MONTAGE		unit	1
PLUS TWO YEARS OF FREE SERVICE			

FINANCIAL ANALYSIS

AUTO-CONSUMPTION

CURRENT PRICE OF ENERGY	156.00	USD/MWH
ANNUAL INCREASE OF ENERGY PRICE	5.00	%
ANNUAL ENERGY CONSUMPTION	80	%

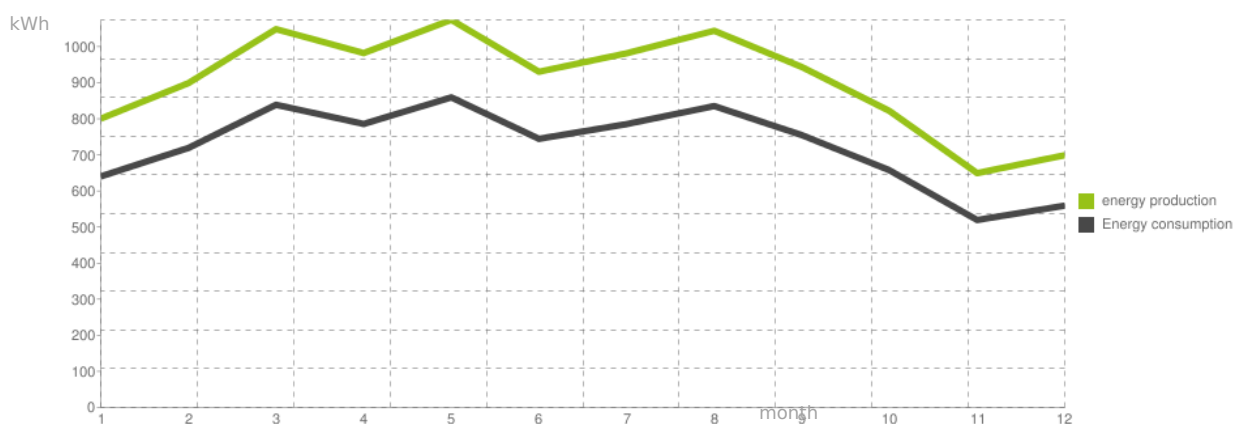
LOAN

AMOUNT:	7761.78	USD
LOAD PERIOD	36	[MONTH]
OWN CONTRIBUTION	20.00	%
RATE TYPE	CONSTANT INTEREST RATE	%
INTEREST RATE PER YEAR	5	%

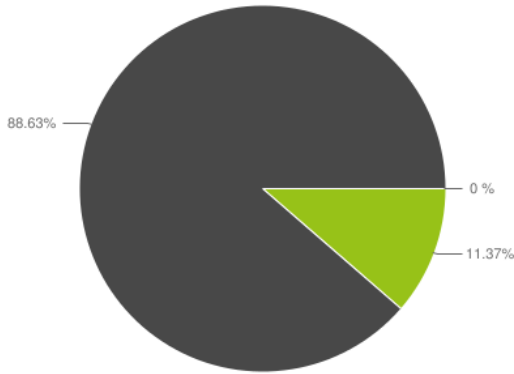
SUPPORT MECHANISM

MARKET PRICE OF GREEN ENERGY FED INTO THE GRID	80.00	USD/MWH
ANNUAL ENERGY MARKET PRICE CHANGE	5.00	%/YEAR
SUPPORT MECHANISM DURATION	15	YEAR
SUBSIDY	50	%

ENERGY PRODUCTION STRUCTURE



BASE YEAR INCOME STRUCTURE - SUPPORT MECHANISM: GUARANTEED GREEN ENERGY SALES



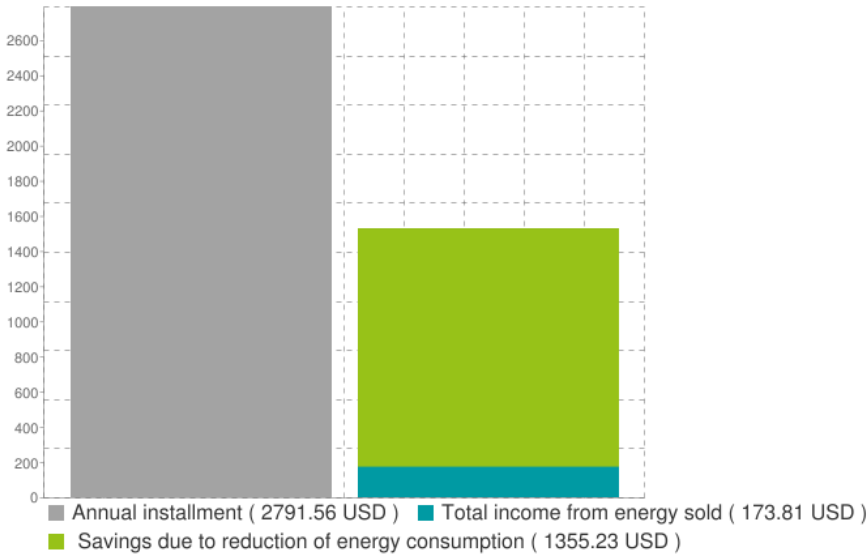
TOTAL INCOME FROM ENERGY SOLD

173.81 USD

SAVINGS DUE TO REDUCTION OF ENERGY CONSUMPTION

1,355.23 USD

ANNUAL SAVINGS - SUPPORT MECHANISM: GUARANTEED GREEN ENERGY SALES



ANNUAL INSTALLMENT

2,791.56 USD

(Monthly installment: 232.63 USD)

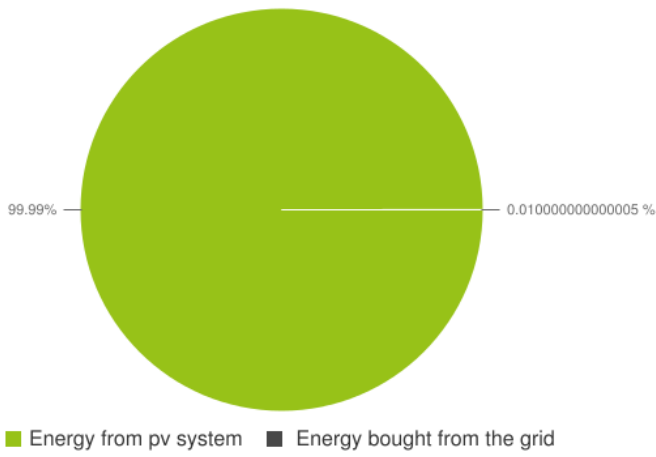
TOTAL INCOME FROM ENERGY SOLD

173.81 USD

SAVINGS DUE TO REDUCTION OF ENERGY CONSUMPTION

1,355.23 USD

ENERGY SUPPLY STRUCTURE



ENERGY BOUGHT FROM THE GRID

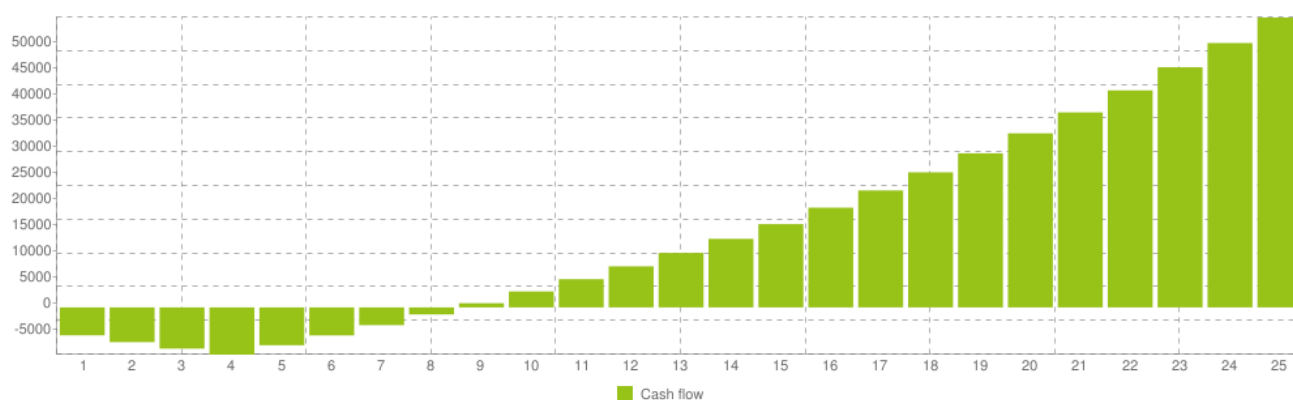
0.01%

ENERGY FROM PV SYSTEM

99.99%

BASE YEAR INCOME STRUCTURE - SUPPORT MECHANISM: GUARANTEED GREEN ENERGY SALES

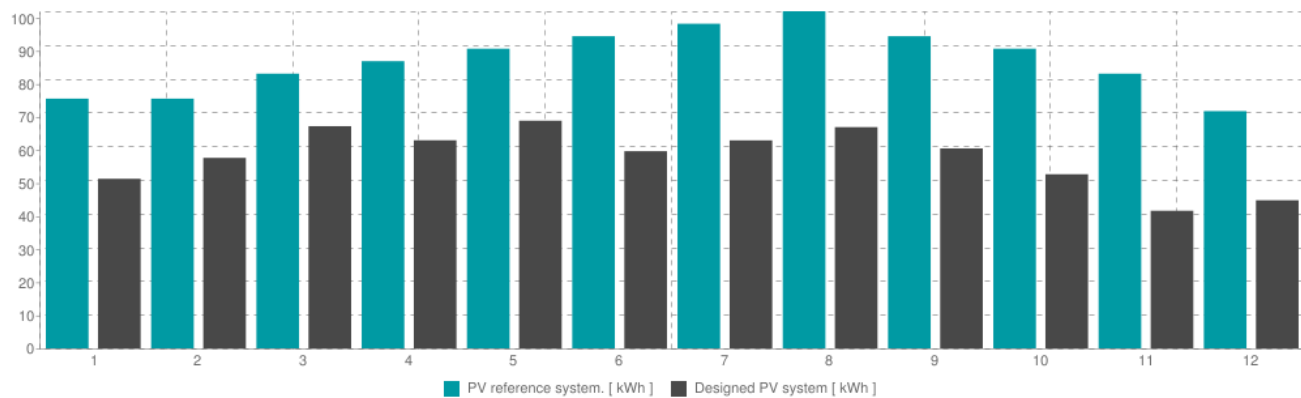
Years	Energy production	Bill savings USD	Green energy sales USD	Annual interest rate USD	Net cash flow USD	Cumulative cash flow USD
0	0.00	0.00	0.00	0.00	-5,174.52	-5,174.52
1	10860	1,355.23	173.81	-2,791.56	-1,262.52	-6,437.04
2	10860	1,422.99	173.81	-2,791.56	-1,194.76	-7,631.80
3	10860	1,494.14	173.81	-2,791.56	-1,123.61	-8,755.41
4	10860	1,568.85	173.81	0.00	1,742.66	-7,012.75
5	10860	1,647.29	173.81	0.00	1,821.10	-5,191.65
6	10860	1,729.66	173.81	0.00	1,903.47	-3,288.18
7	10860	1,816.14	173.81	0.00	1,989.95	-1,298.23
8	10860	1,906.95	173.81	0.00	2,080.76	782.53
9	10860	2,002.29	173.81	0.00	2,176.10	2,958.63
10	10860	2,102.41	173.81	0.00	2,276.22	5,234.85
11	10860	2,207.53	173.81	0.00	2,381.34	7,616.19
12	10860	2,317.90	173.81	0.00	2,491.71	10,107.90
13	10860	2,433.80	173.81	0.00	2,607.61	12,715.51
14	10860	2,555.49	173.81	0.00	2,729.30	15,444.81
15	10860	2,683.26	361.34	0.00	3,044.60	18,489.41
16	10860	2,817.43	379.41	0.00	3,196.84	21,686.25
17	10860	2,958.30	398.38	0.00	3,356.68	25,042.93
18	10860	3,106.21	418.30	0.00	3,524.51	28,567.44
19	10860	3,261.52	439.22	0.00	3,700.74	32,268.18
20	10860	3,424.60	461.18	0.00	3,885.78	36,153.96
21	10860	3,595.83	484.24	0.00	4,080.07	40,234.03
22	10860	3,775.62	508.45	0.00	4,284.07	44,518.10
23	10860	3,964.40	533.87	0.00	4,498.27	49,016.37
24	10860	4,162.62	560.56	0.00	4,723.18	53,739.55



PV REFERENCE SYSTEM.

ENERGY PRODUCTION COMPARED WITH REFERENCE PV SYSTEM

Month	Designed PV system[kWh] Power: 15.6 kW	PV reference system.[kWh] Power: 2.65 kW
1	799.44	200
2	898.02	200
3	1047.56	220
4	981.11	230
5	1073.23	240
6	929.58	250
7	980.59	260
8	1042.99	270
9	942.59	250
10	820.87	240
11	648.78	220
12	698.29	190

ENERGY PRODUCTION PER 1KWP INSTALLED:

TECHNICAL DATA

All technical data of components you used for this project.

WARRANTY

The warranty you give for your components.

DELIVERY DEADLINE

Any comments you wish to add about delivery deadline.

SUMMARY

The summary of your business and investment in PV.

CONTACT

Company name

COMPANY NAME EXMP.

Name and surname

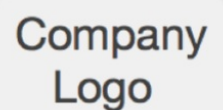
Solar Pro

E-mail

info@easysolar.pl

Telephone

+12 345 678 910



Company
Logo