

Company presentation















1. What are you looking for?



- You have developed a project in the field of renewable energy and expect to collaborate with the right partners to realize the project?
- You are an experienced EPC company specialist in the construction of renewable energy projects and look for new opportunities with the adequate financial solution's?
- You are representing an investment fond or want to realize an long term investment in alternative energy projects with the right partner in each market?

Maybe we have the right project and partner for you!

2. Joint Venture scheme



Project Developer

The right local partner and SPV company



EPC company

An international experienced construction company

Coordinates the J/V and participates as a partner in the SPV company



Fonds & financial institutes

3. Roles and responsibility



The relation in-between the parts will be defined and adapted to each project, as to clearly establish the roles and responsibilities in each of the phases such as:

- Development risk.
- Construction risk.
- JV roles and responsibilities.
- Final Ownership of the facilities.
- Final debtor/payments.
- Financial risks.
- Supervision and quality control.
- Project management.
- Optimization of lay out & product warranties.
- Maintenance & operative production guarantees.
- Long term management and administration of SPV company.

4. Structural activities



- The project developer offers all the necessary administrative authorizations to build the project as turn key. This company will also give the local support during the building period up to the point to get the building and operative fase of the project.
- The financial consulting company is specialized in offering facilities like project finance and guarantee's. They normally also coordinates the final fund investment.
- The EPC company is specialized in building important international energy projects, covering the guarantees of the project components and optimizing the technical solutions, updating them to the best performance required.
- FEC Services Ltd is a Suisse consulting company owned by FUTURE ENERGY CONSULTING Ltd., with experience in international project management and specialist in coordinating long term joint venture agreements.

5. Our concept

INVESTMENT

Longterm rentability Individual Portfolios

PRODUCTION

Production optimizing Product guarantees Monitoring & Security control All Risk insurance



CONSTRUCTION

Situable international EPC partner Quality control Acceptance of completion Due data guarantees Local colaborators & companies

PROJECT EVALUATION

Country & project evaluation Secure of contracts Data check Tecnical & Legal First Check Project desing Cost & earnings evaluation

FINANCING

Yeald calculation
Legal & comercial
Due Diligance
Contact to inversors & fonds
Project finance
Private equity
Guarantees

6. Realized projects



Project volume all in one, development & maintenance: 65 M €, net margen obtained: 15 M €

ENERGÍA SOLAR BAVARIA S.L. (Spain 2007-09)	
330 Kwp ground (El Ejido, Almería)	
330 Kwp ground (La Calahorra, Granada)	
75 Kwp roof (Gérgal, Almería)	
1.156 Kwp one axe (Pedro Martínez, Granada)	

SOLAR GENERAL CONTRACTOR LTD (Switzerland 2009-12)
1.250 Kwp ground (Tiefenbach, Germany)
6.250 Kwp ground (Nohra, Germany)
5.000 Kwp ground (Cerchio, Italy)
1.000 Kwp ground (Lecce nei Marsi, Italy)
1.000 Kwp ground (Mandela, Italy)
1.000 Kwp ground (Santo Padre, Italy)
1.000 Kwp ground (Strangolagalli, Italy)

7. The actual new project line



Project Development with FUTURE ENERGY CONSULT, Ltd:

Chile	
Toro Blanco , 52 Mwp	
Sierra Soleada , 50 Mwp	

Honduras 55 Mwp en Fray Lazaro

Europe

Energy management and cost saving

VHE electric cars

Switzerland

Futbol Stadion, roof 900 Kwp, Sankt Gallen

Airport Dübendorf, roof 1.200 Kwp, Zürich

Brasil

40 Mw PV Mato Grosso (Minato, Brasil)

1.250 energy houses Mato Grosso (Minato)

Dominicain Republic

Wind La Isabela, 2 x 50 Mw

8. Example of realized projects







8. Example of realized projects







8. Example of realized projects







9. Project reference by REC





For this publicly licensed power plant project in the heart of litaly, REC modules were selected because of their leading and documented officiency and reliability.



машите васе берести. У вости неводи резолите стиции отказа се домине дости резолите противор бенето ZEI им 181 во 181 как англуга. И в потчетти присто по картисто, инвертоти по съото същения.

S-Mann-1001 per Franche Institution of description Transformation trades in view of the works of other nations and the imprograms in the program to institution and the imprograms and product of the improvement of production years to the transformation from an out only indicated the plant loads out the description and the institution of popular loads of the countries of the indicated to one popular loads of the countries of the countries of the countries of the countries of descriptions of descriptions

SMLAN CONSTANT CONTINUES OF THE LINE CONTINUES OF THE CON

installing the page from streams of their selection amount and their selection raign from a recent of four-control shadow, selection amount of selections are the selection of the above, to Substieas and shadow or both of the characteristic of the electromastic of this part, the SEC Pleak Regular even control of the electromastic or through the selection of the selection of the electromastic or through the selection of the selection of the electromastic or through the selection of the selection of the electromastic or through the selection of the selection of the electromastic or through the selection of the selection of the electromastic or the selection of the selection of the selection of the electromastic or the selection of the selection of the selection of the electromastic or the selection of the selection of the selection of the electromastic or the selection of the selecti

The SME consists or consists of ASSES Depth Energy (ASSES making profession properties of the end of Region ASSES The part



STRANGOLAGALI

POWER PLANT

Transport Company (A)

Lacation

Type of terrollation

Spettern Store

10.000

Number of Westerland Installed

Completion Date

Total Committee and Committee (Committee Committee)

10. Separation of the important of the beauting or indicate the properties of the properties of the important of the impor



and regrespoor.

10. Cost and rentability calculation (Example: Honduras 55,424 Mwp)



PLANT PREMISES	
Installed capacity	55.424,00 kWp
Specific annual yield	1.831 kWh/kWp
Annual degradation of modules (PV SYST)	0,30% p.a.

OPERATION PREMISES	
Total annual costs (initial value)	1.351.988 \$
Cost adjustments to inflation (O&M)	1,00%

FINANCE PREMISES	
Feed in Tariff	0,149 \$/kWp
Total of investment	102.534.400 \$
Turn key price	1.850 \$/kWh
Equity (in %)	30%
Equity	30.760.320 \$
Loan	71.774.080 \$
Interest rate of loan	7,00 %
Term of loan	15 years

OUTPUT RATIOS	
Total gross return	14,58%
Total net return (incl. operating costs)	13,26%
Net profitability – interests / Equility	37,67%
Earning before tax (EBT) / Equility	26,25%
Net present value (NPV)	43.515.989 \$
Internal rate of return (IRR)	16,80%
EBITDA / Equily	49,45%
EBITDA / Total Investment	14,84%

10. Cost and rentability calculation Details Feed in Tariff and Land rights (lease)



COMPENSATION	Until 2023
Incentive tariff	PPA
Market price compensation	0,149
TOTAL COMPENSATION	0,14879

DUTIES TO COMMUNE	
Donation to the commune	Paid
Calculated to 20 years (contract duration)	PPA
renting fee 1° year	156.000 \$
Lease (following years indexed)	156.000 \$
kWh/year - expected production	101.481.344
Expected yearly income	15.120.720 \$
Index costs	1,00 %
Income tax free first 10 years	

SHORT CALCULATION OVERVIEW	
INCOME	
kWh/year - expected production	101.481.344
NET Compensation / year	14.949.856
Expected losses and plant consume	1,31%
COSTS	
Insurance	3%
Administration costs	1%
O&M	4%
Rent	156.000 \$/year
Total annual O&M costs	1.351.988 \$
NET INCOME (MINUS COSTS)	13.597.868
Yield	13,26%
Total investments (1.850 \$/kWp)	102.534.400

10. Cost and rentability calculation



CALCULATION OF PROFITABILITY	
Installed capacity (kWp)	55.424 Kwp.
Turn key price (\$/kWp)	1.850 price offer
Purchase of land	25+5 year rent
Total of investment	102.534.400 \$
Feed in tariff (FIT)	0,149 \$/year
Tariff adjustment inflation	1%
Costs adjustments inflation	1%
Specific annual yield	1.831
Expected plant yield Kwh/year	101.481.344 Kwh
Expected gross revenues	15.120.720 \$
Life cycle of panel	30 years
Power loss of modules	0,30 PV SYST
Plant yield warranted	95%
Gross revenue guaranteed	14.202.363 \$/year

FINANCING	
Insurance	448.495 (3%)
Administration costs	149.498 (1%)
O&M	597.994 (4%)
Lease 1º year	156.000
Lease following years + index	
Annual depreciation	20 - lineal
Interest rate of loan	7%
Differential	0%
Abstinence time	2 years
Loan in % investment	70%
Total of loan	71.774.080 \$
Equity	30.760.320 \$
Funding provision	1%

11. Contact us:





Marc Royen

CEO

Tel. +41 79 197 42 22 | +34 670 58 88 78 Erlenpark, Ruppenstrasse, n° 20 9212 Arnegg / Gossau , CH marcroyen@fecservices.ch marcroyen@proconsultalmeria.com fecservices.ch

Part of:



