Once Upon a time .....





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Morino

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## entalpica .made to last





## 1. Mission

- 2. Group /Corporate
- 3. Financial (ref. attachements)
- 4. Market
- 5. Products
- 6. Italy
- 7. South Africa
- 8. Brasil







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entalpica group working to achieve in the next ten years the leader position in the renewable and high efficency energy production. Energy Legend Forest Creator





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Corporate

Founded in : 2010

Owned by : Dr. Andrea Magni

## entalpica holding srl

Italia sede legale : Via San Rocco n.65 20874 Busnago (MB) C.F. e P.IVA IT06932980961 REA: MB – 1868232

www.entalpicaholding.com info@entalpicaholding.com

## **Entalpica Brasil pty Itda**

Society under Brazilian law, made to manage the agribusiness operation and energy market.

The administrative and fiscal management is entrusted to Gestus company while the legal activity with Ribeiro & Cime offices in relationship with the administrators of entalpica Brasil and Italy.

The company will rent about 1,000 ha of land for long term of 45 years and the company capital / investment will be around of EUR 2,000,000.

Sale and management of cogeneration systems in the territory.

#### Entalpica spa

Society under Italian law, manage the 15% of domestic market with own conbined heat and power system.

Under costruction the new products capable to fulfill the houses need.

The administrative and fiscal management is entrusted to Colombo offices while the legal activity with Martinelli offices in relationship with the administrators of entalpica Italy.

The company manage and control the subsidiaries base in South Africa and Brasil.

Entalpica holding is the company engaged in the research and development of Moringa oleifera that is an agricultural-industrial investment project.

Entalpica holding company specialized in the study and implementation of alternative energy solution.

The investment is focused on a extensive cultivation of moringa plant to obtain, vegetable oil to be used as biofuel or human food and oil cake as a base product for animal feed.

#### **Entalpica South Africa pty ltd**

Society under South African law, made to manage the agribusiness operation and energy market.

The administrative and fiscal management is entrusted to Marcer company while the legal activity with BBM offices in relationship with the administrators of entalpica South Africa and Italy.

The company will rent about 1,000 ha of land for long term of 45 years and the company capital / investment will be around of EUR 2,000,000. Sale and management of cogeneration systems in the territory.

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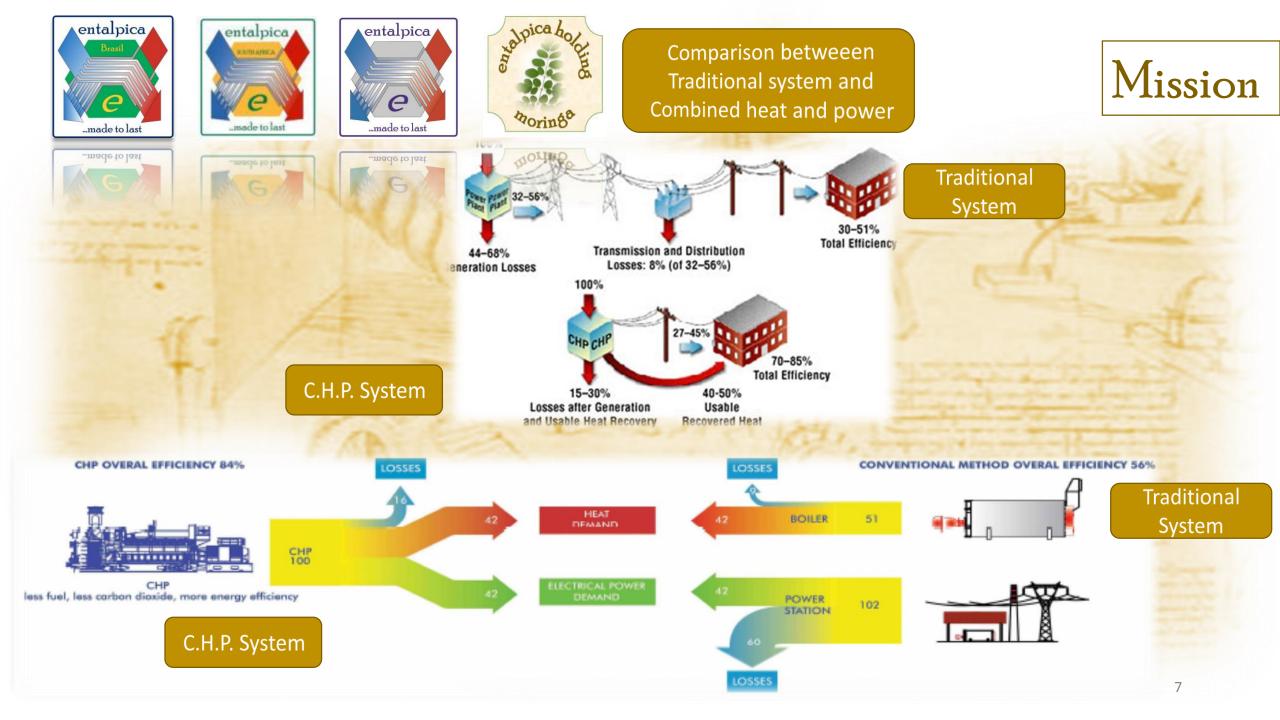
- →1 Director
- →2 Staff
- →7 Sales
- →2 engineer
  - /Consultant
- →20 Partners

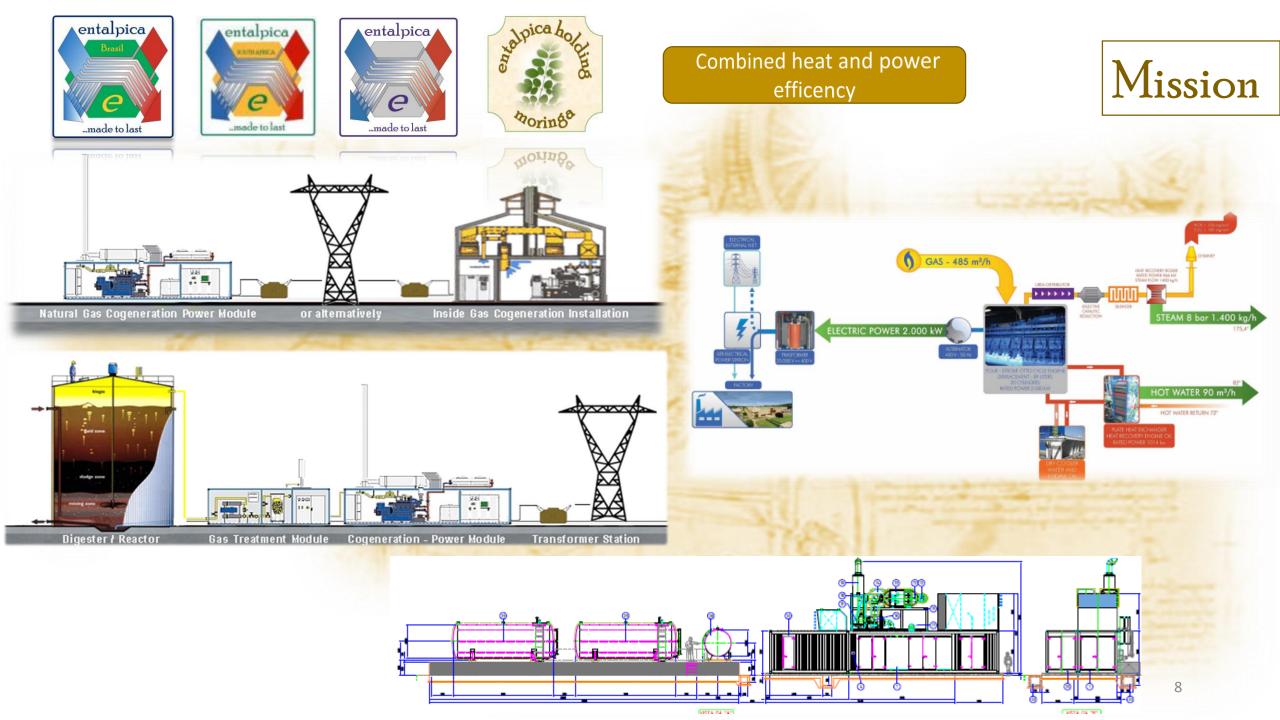


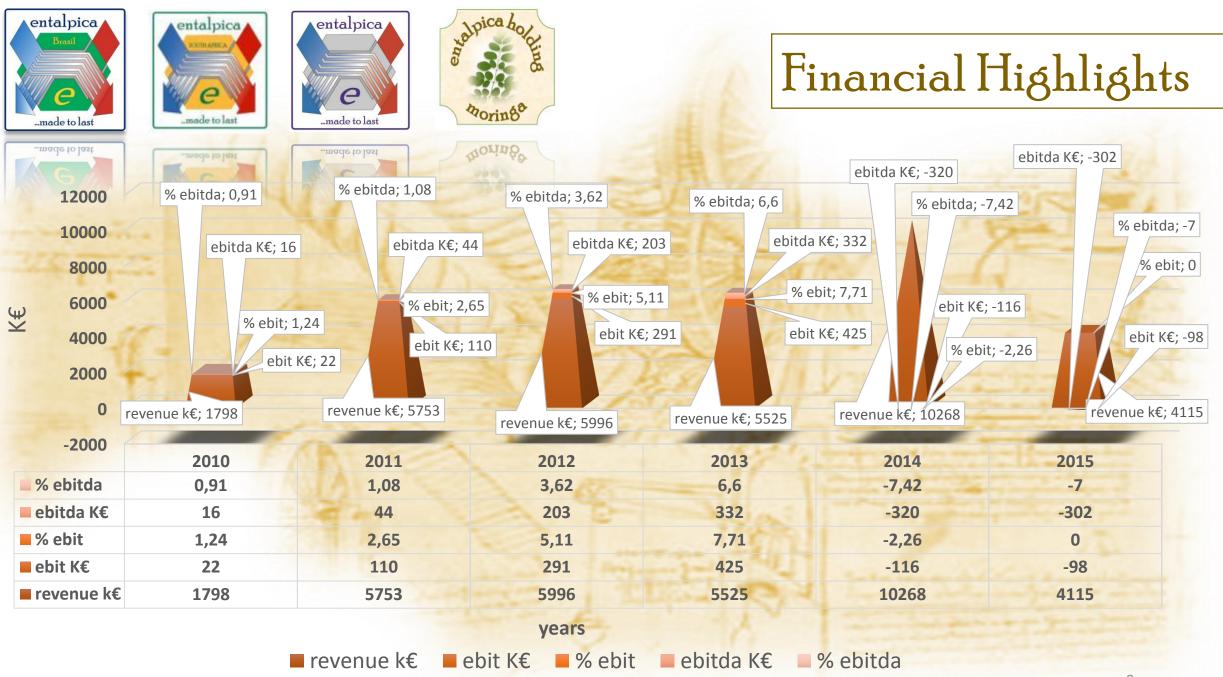


3

100















	made to last	Cogeneration	Trigeneration
t	Hospitals		
	Shopping Centers		
,	Supermarkets		
	Schools		
	Hotels	R.	
0	Sporting Centers	K	
	Public Officies		
	Food Processing Industries		
	Industries		
0	District Heating		

# Market

10

## Market position :

- Big Plant, : STAR, 15% Italian Market, in progress Europe, Brasil and South Africa, It's one of the ten best European company
- Medium Plant, market position : Under study and in progress.
- **\*** Lowest Plant, market position : Ready to catch it.









Products

High specialization and quality

Reserch and development, design, sales, construction, installation and erection and maintenance of industrial and civil power plants of COMBINED HEAT and POWER using innovative cogeneration and trigeneration systems (CHP).

R & D, Research and development in collaboration with local universities to: increase energy efficiency, reduction and control of pollution and emissions.

The most complete and extensive range available on the market suited to every need

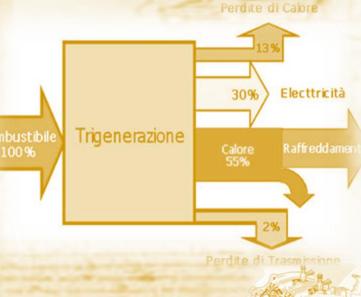
from the Taylor made plants to smallest size plants suitable for houses.

1. FOSSIL fuels, diesel, gasoline and natural gas, RENEWABLE, biogas (anaerobic digestion, pyrolysis, landfill gas)

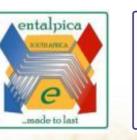
and vegetable oils;

- **TERA, from 400 kWe to 4500 kWe**
- MEGA, from 240 kWe to 360 kWe
- NANO, from 120 kWe to 200 kWe.
- 2. The INDUSTRIAL applications anticipating the new European regulations with low fuel consumption;
  - PICO from 20 kWe up to 100 kWe
- 3. Civil applications for private;
  - \* FEMTO, from 2 to 10 kWe
- 4. Gas turbine. Engineering. Maintenance and service. Production and sale of electricity with plants from 5,000 to 22,000 kWe
- 5. Emergency diesel generators
- 6. Oil & Gas off shore emergency generating sets .
- 7. Maintenance Service and Conduction Full-Service
- 8. SUPER FULL-SERVICE: selling fuel plant, developed and manufactured by the subsidiarie companies: Entalpica Brasil Ltda and Entalpica South Africa Pty Ltd.
- 9. Biogas-technology systems: According to manufacturers of anaerobic digesters.
- 10. TURBOCOLD, innovation with the super freezer for production of cold water at 7 ° C and the freezing up to -25 ° C.
- 11. ORC turbines sale and integration in its cogeneration plants. Converting thermal energy into electricity.
- 12. SCR (Selective Catalytic Reducer) design, development, production, marketing and sales.
- **13.** The solar cogeneration and trigeneration.
- 14. The energy production with fuel cells and hydrogen
- 15. PENTAGEN, the union of trigeneration, photovoltaic panels and VERTICAL WIND SAILING.

## 16.HOME TECHNOLOGY, new frontier of ENERGY EFFICIENCY







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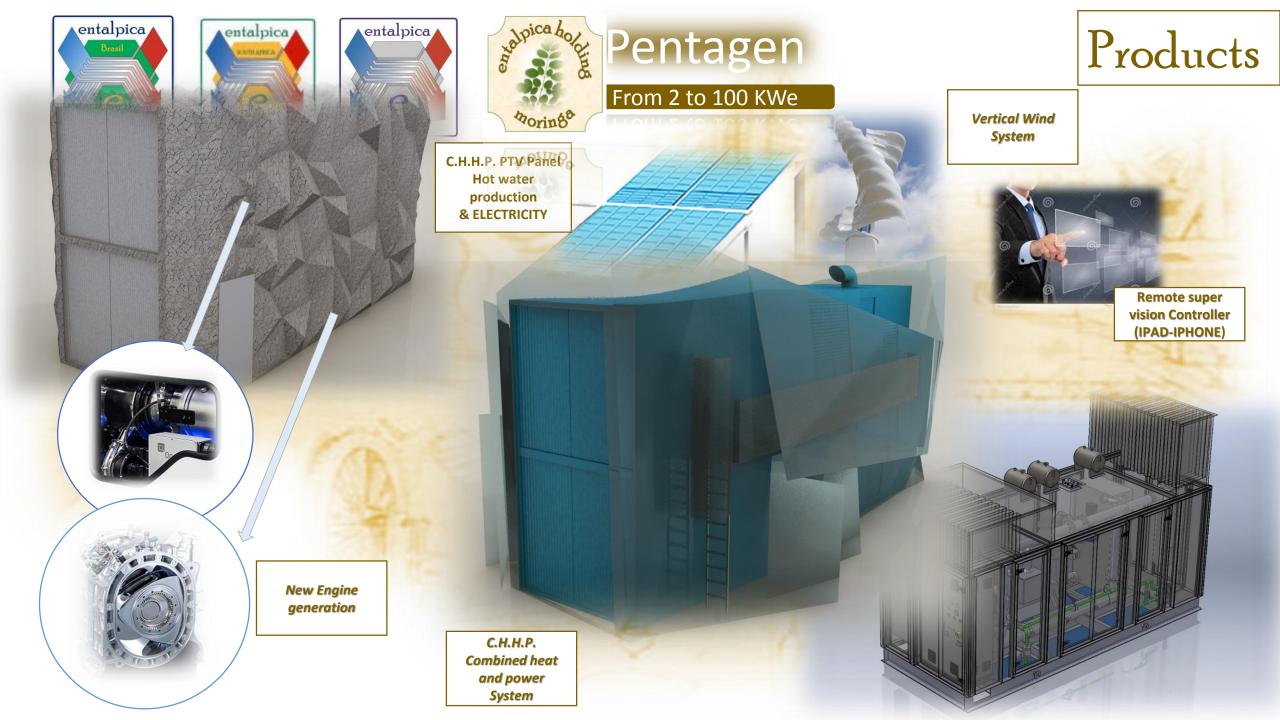
## From 400 to 4500 KWe

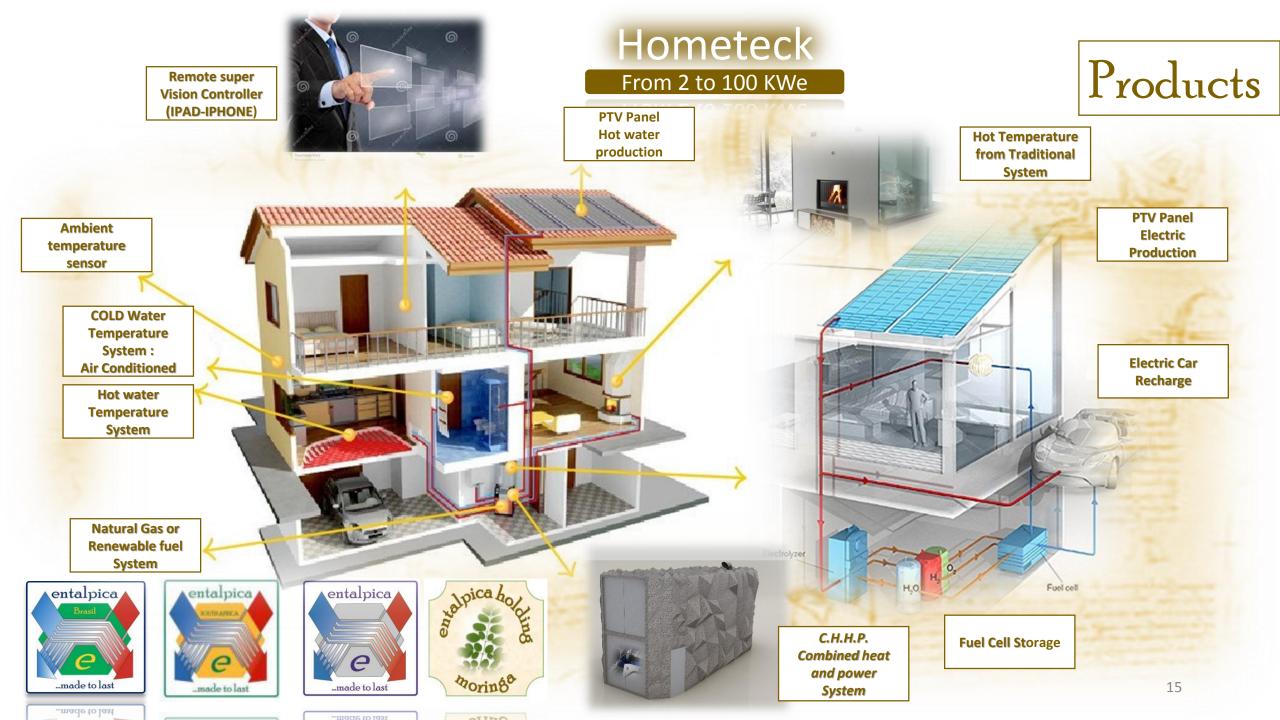


















Entalpica operate into domestic and international market by research and development, design, build, installation and erection and maintenance the combined heat and power plants system (cogeneration and trigeneration and pentageneration ) to produce energy with innovative systems, fueled by traditional and renewable sources (natural gas, biogas and vegetable oils).

#### Main activity:

- C.H.P. with generating sets fueled by vegetable oil, power plant from 2 kWe to 3900 kWe and multipl,
- C.H.P. with generating sets fueled by natural Gas and biogas, power plant from 2 kWe to 4500 kWe,
- C.H.P with with gas turbines fueled by natural gas ,
- Power plant from 5000 kWe to 22000 kWe,
- Full Service maintenance,
- SUPER FULL SERVICE : Vegetable Oil sale for its facilities Systems with the use of biogas: Alliances with producers of anaerobic digesters. ORC Turbines (Rankine cycle) for conversion of heat into electricity.



## entalpica spa

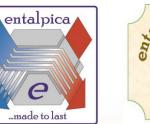
Italia, Sede legale: Via Lissoni 25 – 20900 Monza (MB) Sede produttiva, Via San Rocco 65- 20874 Busnago (MB) C.F. e P.IVA IT06955390965 REA: MB-1868865

www.entalpica.eu info@entalpica.eu











# South Africa

## BUSINESS AWARD CATEGORIES & NOMINEES

INVESTOR OF THE YEAR AWARD NOMINEES End Green Power SpA MECO Flexabiliano SpA

PRIORITY SECTOR AWARD NOAMEER Fata SpA-Analabilit Invegia SpA One of Resense Railding Greegy

BUSINESS PERSON OF THE YEAR AWARD NOMMERS Mr. Fabio Adeau Mr. Advant Gardo Cartoni Mr. Giacono Raterno

LIFETIME RECOGNITION AWARD NOMALESS Mr. Ignatis Mancada Adv. Anthony Victor Elais Mr. Califes Bretalis

CHAIRPERSON'S EXCELLENCE AWARD NOMINEES Seed tay SpA

SAB Miler-Peroni Eventsic Acort Management

SOCIAL RESPONSIBILITY AWARD NORMERS Female SpA Britighes SpA Bankini Cardiopatist nel Mondo

JURY SNU, ISOMOTIO MOLOB, CONSUL GENERAL - CHARPERSON TONY CIWATO, TRESDENT TOUCHWALL, UNIVERSIT CILLO MULAS DIRECTOR LOC LICHWANGSENIC- JURY MEMORY MULICIUM ALMA, STUDIO BEN LAW - JURY MEMORY MARCELLA UTTARD MARKETING OFFICIR - PROJECT MININGER







## Regione dello Kwazulu Natal

ENTALPICA South Africa (PTY) LTD South Africa : 112 Oxford Road, Houghton Johannesburg, Gauteng, P.O. Box 92441, Registration Number 2011/005069/07 Kwa-Ngwanase – Kosy Bay Kwa-Zulu Natal - South Africa www.entalpicaholding.com www.entalpica.co.za www.entalpica.eu info@entalpica.eu







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# Energy Legend



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