



More than  
**ONE GIGAWATT**  
of experience

Energy planning, engineering,  
and integrated advisory services



## More than One Gigawatt of experience

Clean energy production  
for a better world.



**Moroni & Partners**, one of the largest Italian energy engineering consultants, executes Engineering, Technical Advisory and Asset Management services.

A team of more than **50 professionals** working on renewable energy sources and high energy efficiency systems is able to satisfy the needs of banks, investors, industrial customers, public entities and EPC contractors.

Three business divisions are the pillars of our structure:

**The Engineering Division:** executes the permission process, the design, the construction surveillance and the safety of power plants. Furthermore this division offers energy saving solutions in industrial, civil and tertiary sectors.

**The Technical Advisory Division:** carries out consultancy activities and instrumental analyses on operating energy plants, working with major banks and investment funds as well as with investors asking for an independent survey on their investment.

**The Asset Management Division:** performs a complete plant management, from performance monitoring to management of administrative and fiscal fulfillments related to RES activities.

### CERTIFICATIONS:

**Moroni & Partners** cares about services quality, environmental respect, energy rational use and workers' health and safety, obtaining these voluntary certifications:

**ISO 9001/2008**

Quality management

**ISO 14001 /2004**

Environmental management

**ISO 50001 /2011**

Energy management

**BS OHSAS 18001/2007**

Occupational health and safety

### TECHNICAL COMMITTEE:

**Moroni & Partners** takes part effectively on technical regulations issued. It is a member of the following technical committees (TC):

**TC 82** - Solar photovoltaic energy systems

**TC 88** - Wind turbines

**TC120** - Electrical Energy Storage (EES) Systems

**TC 313** - Smart grids

**TC 315** - Energy Efficiency

### CERTIFIED OPERATORS:

**The staff of Moroni & Partners** is constantly trained and certified and it is composed by:

- Termographic Operators Level 2 (UNI EN 473)
- PEI e PES technicians for under voltage works (CEI EN 50110-1; CEI 11-27)
- Certified operators for overhead works, (art 37 e 77 D.Lgs. 81/2008)
- Energy experts (DPR 75/2013)
- Energy and Environmental experts (prot. Itaca) (LR Marche 14/2008)
- Acoustic technicians (legge 447/95)

# ENGINEERING DIVISION

## More energy, less talk

### ENERGY PRODUCTION AND MANAGEMENT

Development, design, construction supervision and health and safety operations for:

PV plants

Solar Thermodynamic plants

Biomass and biogas plants

Wind farms

Hydroelectric plants

Combined Heat and Power plants (CHP)

Solar thermal and solar cooling plants

Energy Efficiency actions

Permission procedures for long distance transmission lines

Energy audit and energy diagnosis actions

Optimization and repowering of operating plants

Incentives (Feed-in-Tariff, Feed-In-Premium, Green Certificates)

### INNOVATIVE BUILDING

Innovative low energy consumption and passive buildings

Energy and environmental certification

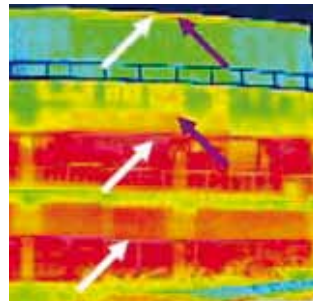
High efficiency HVAC plants

Civil and industrial electric plants



**34,8 MWp PHOTOVOLTAIC PLANT**

Alfonsine (RA).



**BUILDING DYNAMIC AND THERMOGRAPHIC ANALYSIS**

Ist. di Ricerca di Bio. Molecolare P. Angeletti Pomezia (RM).



**810 kWp PHOTOVOLTAIC PLANT**

ARCOBALENO a Energia Zero Shopping Centre Jesi (AN).



**210 m<sup>2</sup> SOLAR THERMAL PLANT**

Public swimming pool of Chiaravalle (AN)



**45,8 kW PHOTOVOLTAIC PLANT**

U.A.A.V. Ancona Falconara (AN).



**CHP VEGETABLE OIL-FUELLED 420 kWe PLANT**

Helantius 1 Ancona (AN).



**60 kW GEOTHERMAL PLANT**

Acanto Comunicazione Pesaro (AN).



**250 kWe BIOGAS PLANT**

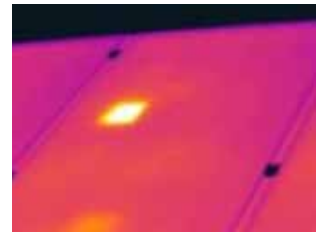
Az. Agricola Trionfi Honorati Jesi (AN).

# TECHNICAL ADVISORY DIVISION

## Check the quality of your investment

### PHOTOVOLTAICS

Technical, instrumental and administrative Due Diligence  
Performance Ratio Measurements  
IR-Thermographic analysis in compliance with UNI EN 473  
Laboratory tests in compliance with IEC 61215 e IEC 61646  
Provisional and Final Acceptance tests (PAC and FAC)  
Health and Safety Operations



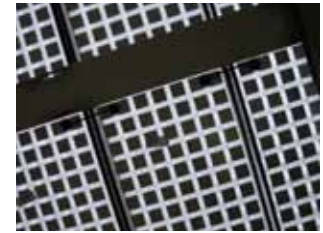
### SOLAR THERMODYNAMIC (CSP)

Technical and administrative Due Diligence  
Plants and technology bankability Due Diligence  
Direct Normal Irradiation Measurements  
Advisory Services for suppliers selection  
Tests on CSP tracking system



### CONCENTRATION PHOTOVOLTAICS (CPV)

Technical, instrumental and administrative Due Diligence  
Plants and technology bankability Due Diligence  
Tests on CPV tracking system  
Laboratory tests in compliance with IEC 62108  
Provisional and Final Acceptance tests (PAC and FAC)



### BIOGAS / BIOMASS

Technical Due Diligence  
Advisory Services for technologies bankability  
Third-part start-up verification  
Biological Laboratory test  
Production and procurement costs optimization  
Atmospheric emission analysis



### WIND

Technical Due Diligences  
Wind Assessment  
Annual Energy Production estimation (P50 P75 P90)  
Power Curve measurement  
N.D.T. on moving parts  
Acoustics measurements



### HYDROELECTRIC

Technical Due Diligences  
Installation site analysis  
Verification of the technology  
Hydrometric data analysis  
Energy yield estimation



## ENERGY EFFICIENCY

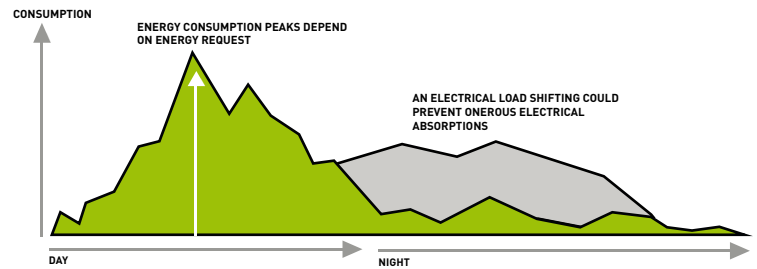
### SERVICES FOR ENTERPRISES

Technical advisory for ISO 50001 certification  
Customized Energy management services  
Energy Audit  
Energy diagnosis  
Energy supply contracts analysis  
Contracts analysis for third-part financing  
Feasibility studies on CHP and trigeneration plants  
High efficiency lighting solutions  
Energy efficiency solutions  
Consumptions monitoring  
Certification of achieved saving  
Technical Advisory on energy efficiency bonds request



### SERVICES FOR FINANCIAL INSTITUTES AND INVESTMENT FUNDS

Technical Advisory on bankability of specified technologies  
Technical due diligences  
Consumptions monitoring  
Certification of achieved saving



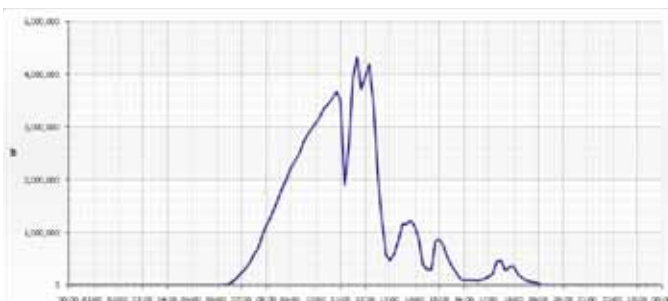
## ASSET MANAGEMENT DIVISION

Our experience for your investment care

M&P Asset Management services help the investors for technical and administrative management of PV plant, in order to increase the investment value and the revenues ensuring the compliance with local laws and regulations.

The service includes:

- Suppliers selection and O&M contract subscription
- On field survey of O&M activities
- Remote monitoring of PV plant performances
- PV plants performance assessment
- Support in the relationship with National Energy Management Operator, Custom Agency and Transmission System Operator
- Support to administrative and accounting management of the investment
- Legal and fiscal management support



## CHOSEN BY:



## WHERE WE OPERATE:



## MORONI & PARTNERS

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