



Efficiency & Storage

MET Romania Energy SA

MET GROUP - SHORT DESCRIPTION

STRONG INTERNATIONAL PRESENCE

15 Countries via subsidiaries **19** International trading hubs **27** National gas markets

KEY FACTS

- Diversified commodity structure - natural gas, power, oil, oil products, LNG, LPG
- Track record in successful expansion to international markets
- Excellent understanding of CEE and CIS political and economic environment
- Stable and significant financing facilities and credit lines
- Ability to capture real option value through physical asset ownership
- Highly motivated and competent management and employees
- Proven track record of high profitability and fast growth
- Headquarters in Zug, Switzerland

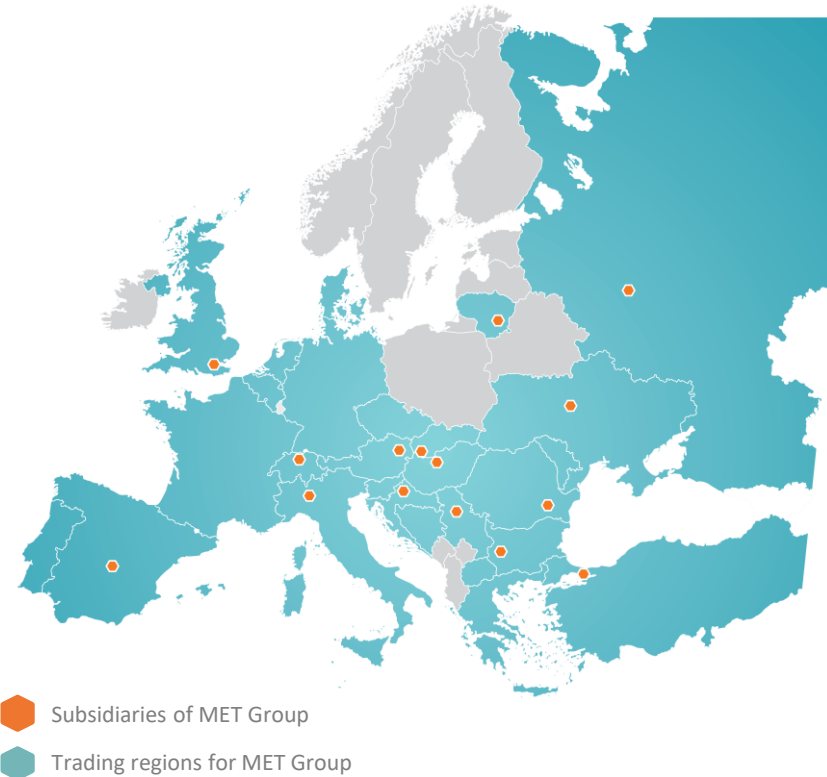
500+
employees

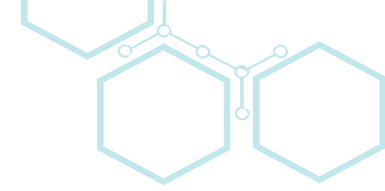
LEADER
IN THE CEE
GAS MARKET

5
Number of newly
opened country
offices in 2016
and 2017

**24 +
BCM**
Gas turnover
volume in 2016

UNIQUE POSITION IN CEE





EFFICIENCY: WHAT IS A SMART/ GREEN BUILDING?

SMART building

- Can be summed up as an automated or largely automated **self monitoring building**;
- Involves multiple dimensions that include HVAC control, Cabling, Lighting Controls, Access Control, Data Networking, EV chargers etc.;
- Integrated design of infrastructure, building and facility systems, communications, business systems and technology solutions.

GREEN building

- Has very little to no impact on the environment;
- Usually involves making the building **more efficient** in regards to consumption. This can be in terms of **energy storage**, water or other categories such as air quality.



SMART & EFFICIENT BUILDING

Remote control and automatization

- **Lighting system** (sensors, rollers/ curtains)
- **Acclimatization** (temperature sensors, + rules - priorities)
- **Safety** (video surveilling, smoke/ door/ windows sensors etc.)
- **Metering** (all utilities, on grid/ off grid PVs)
- **Storage system** (from grid or renewable sources)

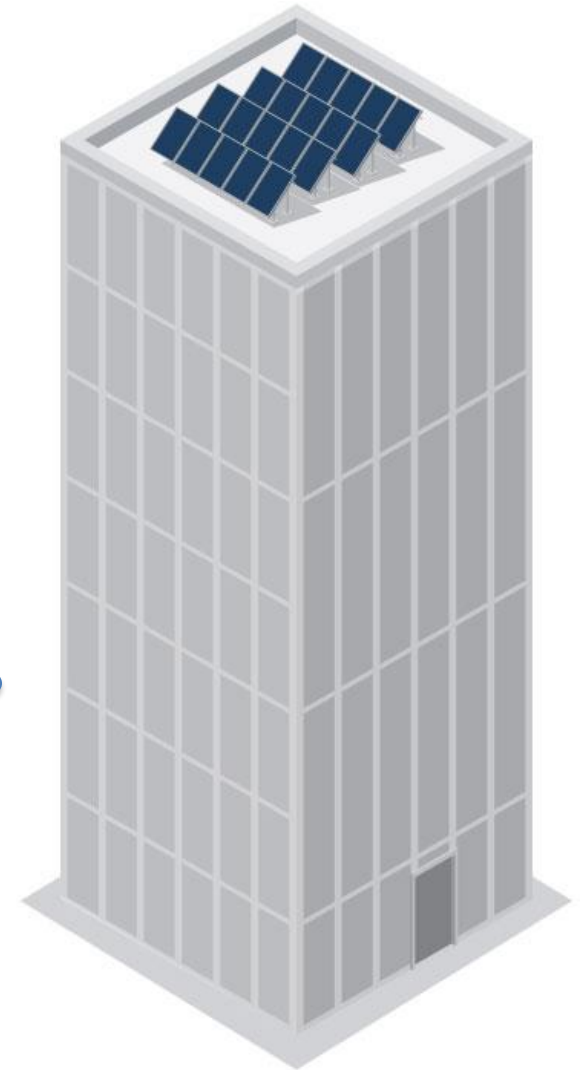
Management system for consumption and safety!

ECO Friendly

- EV chargers



**The FUTURE
has arrived!**



USE CASE “NORTH OF BUCHAREST”

POPASULUI

— residence —

CARTIER INTELLIGENT

CASĂ INTELIGENTĂ

Sistemul de casă inteligentă a fost integrat cu succes la nivelul întregului complex Popasului Residence. Acesta este menit să ușureze viața utilizatorului și în același timp să eficientizeze consumul de energie al locuinței.

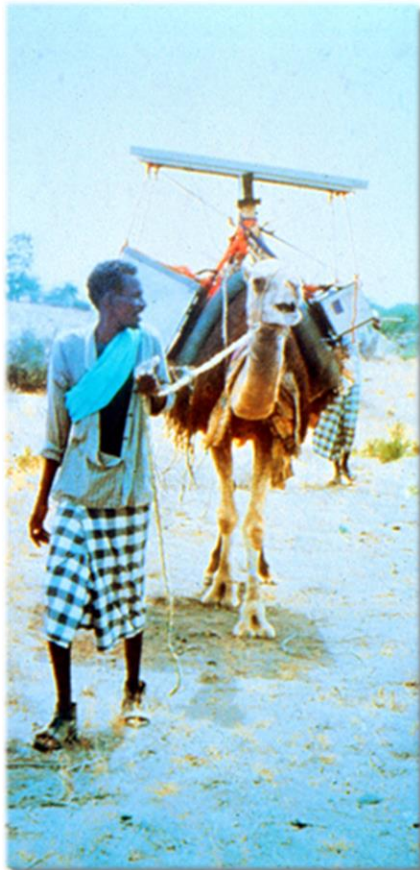
Fiecare casă din complex este dotată cu panouri fotovoltaice ce garantează un aport semnificativ la încălzirea locuinței tale și un cost redus la factura de întreținere.

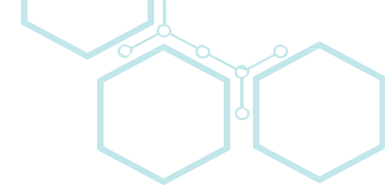
PANOURI FOTOVOLTAICE



STORAGE CAN CHANGE OUR LIFE

Around the world, there are many dramatic examples of storage systems. They include this PV-wind-diesel hybrid system + storage in Mexico that provides village-wide power for 43 homes, three schools, two stores, a church and an auditorium





WHAT IS ENERGY STORAGE?

>>The Concept

- Energy **storage** devices are “charged” when they absorb energy, either directly from renewable generation devices or indirectly from the electricity grid.
- They “discharge” when they deliver the stored energy back into the grid.
- Charge and discharge normally require power conversion devices, to transform electrical energy (AC or DC) into a different form of electrical, thermal, mechanical or chemical energy.



ENERGY STORAGE EXAMPLE!



 **stratum**
ENCLOSURES



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