

# ESE

EFFICIENCY  
SAVING  
ENVIRONMENT



IoT **INDUSTRY 4.0** Ready  
MADE IN ITALY



## ESE

EFFICIENCY  
SAVING  
ENVIRONMENT



## ant

EFFICIENCY  
SAVING  
ENVIRONMENT

# » ABOUT US/

We work in the industry  
of **renewable energies**

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» Building energy efficiency  
low environmental impact, **civil,**  
**social, healthcare and industrial.**



# » OUR OBJECTIVE /

» **Energy efficiency**  
**IoT INDUSTRY 4.0 Ready**

+ **Bonus Sud Tax Credits**

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- » **Resource saving**
- » **Reduction of climate-altering emissions**



# » THE FUTURE/

## Research and development

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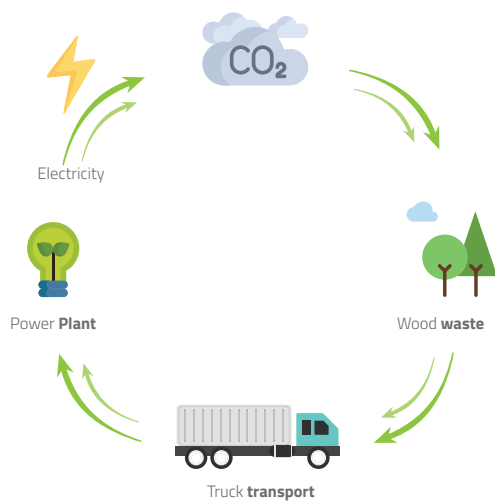
» **Technological solutions**

» **Develop plans and programs  
for energy efficiency in the  
sector public and private**



# » POWER QUALITY /

## Improve features of the **electrical network**



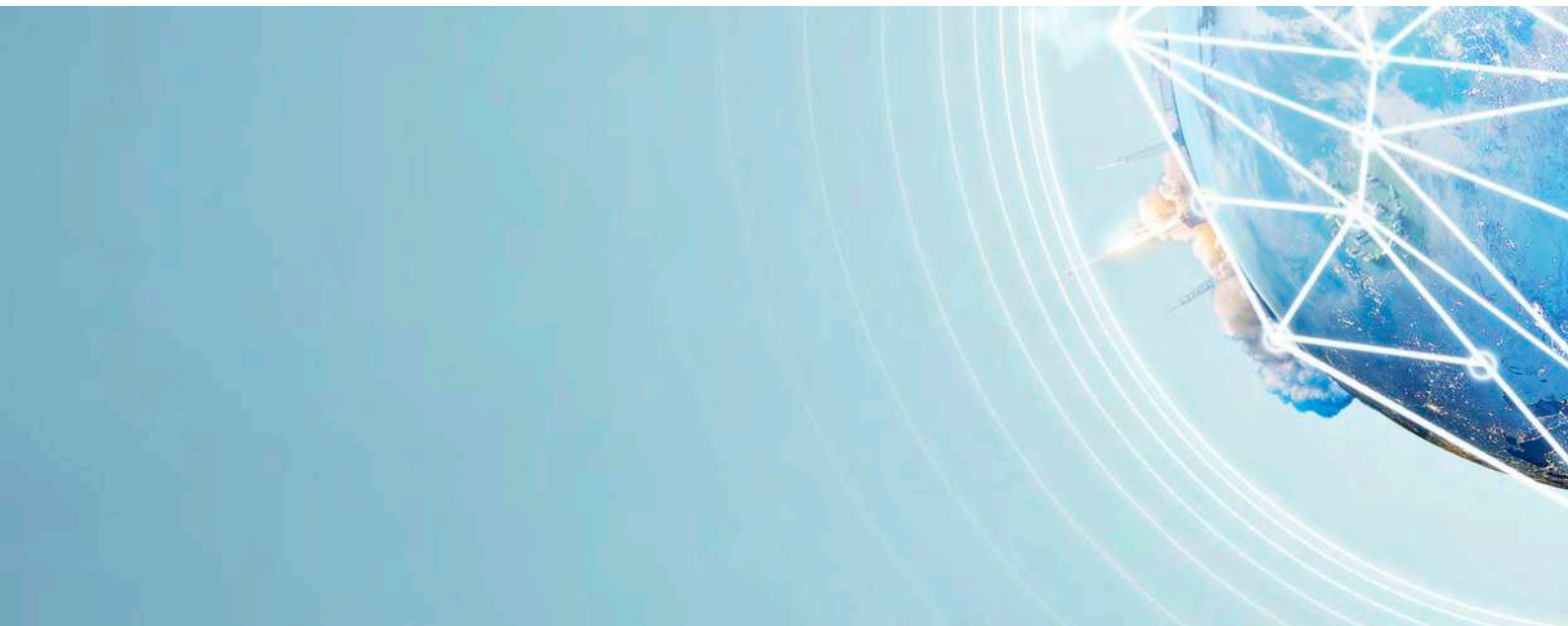
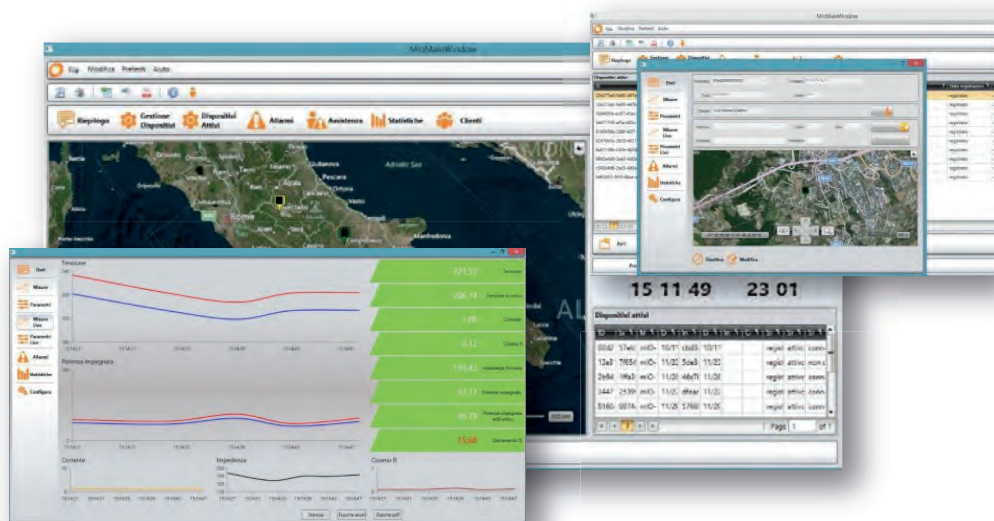
» Reduce energy costs  
and the **environmental impact**

» Preserve the **electrical systems**

# » HARDWARE E SOFTWARE/

## The objectives

- » Optimize consumption
- » Reduce energy costs



# » THE TECHNOLOGIES /



**Control, protection, savings  
in one device**



» A device capable of calculating and identifying the **Optimal Minimum Impedance** generated by the installations acting on the *"Power Quality"*.



# » SECTOR OF SPECIALIZATION/



**ant**  
EFFICIENCY  
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More Opportunities for  
the companies that want to improve  
**Power Quality** and **save costs**  
of electricity.



RESTAURANT



LARGE SCALE DISTRIBUTION



HOTEL



INDUSTRY

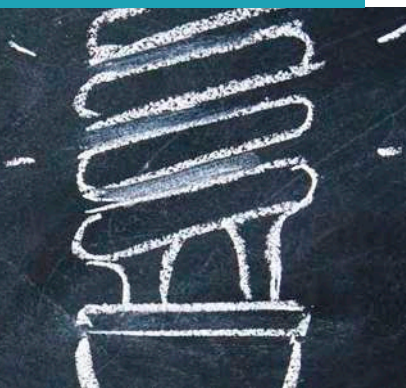


SANITARY



SHOPS

SAVE  
ENERGY!





# » RESTAURANT /



## Energy **cost**



» **Lighting** and consumption of electricity



» **Heating** and air conditioning



» **Water** consumption



# » LARGE SCALE DISTRIBUTION/



## Energy costs



» **Refrigeration** 40%



» **Lighting** 20%



» **Others** 40%






» The large-scale distribution has  
a **very high** electricity consumption.





# » HOTEL /

## Costi dell'energia

-  » **Heating** and hot water 63,1%
-  » **Kitchens** 10,9%
-  » **Air conditioned** 5,9%
-  » **Lighting and utilities** 3,7%
-  » **Others** 16,4%

» savings of about **30%**  
with energy saving measures.



# » SANITARY /



## Energy costs



» Heating and air conditioning 40%



» Hot water 20%



» Losses 40%

» Heating, air conditioning and ventilation: **affect 40%** of the total cost



# » TECHNICAL TAB

## ANT DEVICE /

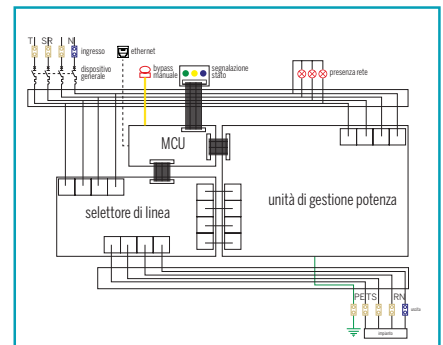
### technical specification

product code		A-0100-400-015	A-0150-400-015	A-0200-400-015
model		ANT_100_15	ANT_150_15	ANT_200_15
power		100kVA	150kVA	200kVA
input				
nominal voltage		400V ± 10%	400V ± 10%	400V ± 10%
nominal frequency		50 Hz ± 5%	50 Hz ± 5%	50 Hz ± 5%
connetion mode		three phase whit neutral	three phase whit neutral	three phase whit neutral
<b>exit</b>				
nominal voltage		400V ± 10%	400V ± 10%	400V ± 10%
maximum current		144,5 A	216,7A	289 A
nominal frequency		50 Hz ± 5%	50 Hz ± 5%	50 Hz ± 5%
efficiency		>98%	>98%	>98%
comunication mode		ethernet (modbus)	ethernet (modbus)	ethernet (modbus)
<b>protections</b>				
bypass	manual	yes	yes	yes
	automatic	yes	yes	yes
	remote	yes	yes	yes
overload	automatic load control	optional	optional	optional
	101% - 125%	1'	1'	1'
	125% - 150%	30"	30"	30"
protection grade	150% - 200%	0.01"	0.01"	0.01"
	internal	IP20	IP20	IP20
dimension	(cm)	IP30	IP30	IP30
		60	70	80
weight (kg)		70	80	90
		130	140	160
		300	400	700
<b>working enviroment</b>				
temperature	min	-10° C	-10° C	-10° C
	max	+40° C	+40° C	+40° C
altitude max		2000 m	2000 m	2000 m
relative humidity (without condensing)		95%	95%	95%
rumorosity level		<50 dB	<50 dB	<50 dB

### telemetry system

parameter	accuracy	resolution
voltage	0,20 %	0,010 V
current	0,20 %	0,001 A
active power	0,50 %	0,100 W
reactive power	0,50 %	0,100 VAR
apparent power	0,50 %	0,100 VA
power factor	0,50 %	0,001
frequency	1,00 %	0,010 Hz
thd	1,00 %	0,001

### wiring diagram



\*For connection, refer to the installation manual.

**It is written ESE,  
but it is read EASY,  
as easy as saving energy**



Scan the qr code  
and discover **ESE.ENERGY**

*Energy efficiency division*

*Company awarded by*



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