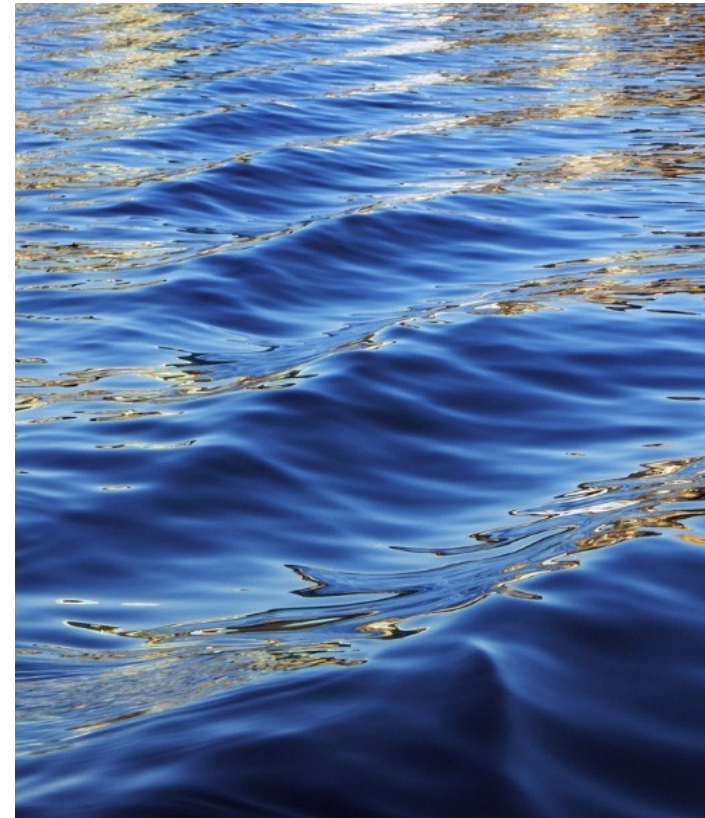




**PRAHA GLOBAL
CONSULTANCY SRO**

**WASTE-TO-ENERGY PLANT
KRIS**

Questions and Answers / FAQ



* What is the KRIS implant?

* Kris is a unique mobile waste-to-energy plant in which the heat developed during the waste combustion is recovered to produce steam used for the direct production of electricity or heat carrier, without generating harmful substances for the environment and for humans. It is a project resulting from Italian creativity and over six years of work, studies, experiments, and acquisition of patents.

* What is meant by implant mobility?

- The system has been patented for its mobility as it is structurally arranged on separate elements that are carried on seven trailers allowing limited transportation in ordinary terms. Since no form of exceptional transport is necessary, they allow rapid movement on the road, without the need for an escort or speed limitations. Once they are in the assembly area, the elements are assembled while remaining on rubber, ready to be moved at the end of the cycles expected from the single site.

* What kind of waste does the KRIS plant burn? Does it also burn hospital waste?

- The plant can dispose of urban waste and special waste in liquid, solid, or pasty form with high and low calorific value. Specifically, it is suitable for disposing of special waste (hospital, pharmaceutical, industrial, toxic and harmful, including sludge from leachate or wastewater treatment and asbestos). In the case of hospital waste, the system can be located near any main hospital and provide, as well as electricity, saturated steam for the air conditioning of the rooms and operating rooms and for powering the facility's laundries.

DISTRIBUZIONE DELLE AREE	
SUPERFICIE AREA VERDE	486 mq
SUPERFICIE COPERTA (UFFICI E IMPIANTI)	2366 mq
SUPERFICIE COPERTA DESTINATA AGLI IMPIANTI	4130 mq
SUPERFICIE DI MANOVRA AGLI IMPIANTI	4171 mq
SUPERFICIE VIABILITA' INTERNA	2998 mq
SUPERFICIE PARCHEGGI	84,9 mq
SUPERFICIE TOTALE	15000 mq

LEGENDA	
01 -	STRUTTURA DI ACCOGLIMENTO E CARICAMENTO DEI RIFIUTI
02 -	STRUTTURA DI ACCOGLIMENTO E CARICAMENTO DEI RIFIUTI
03 -	SERRAMENTI DI STOCCAGGIO RIFIUTI LIQUIDI ALTO POTERE CALORIFICO N°1284
04 -	SERRAMENTI DI STOCCAGGIO RIFIUTI LIQUIDI BASSO POTERE CALORIFICO N°1285
05 -	SERRAMENTI DI STOCCAGGIO RIFIUTI SOLIDI ALTO POTERE CALORIFICO N°1286
06 -	SERRAMENTI DI STOCCAGGIO RIFIUTI SOLIDI BASSO POTERE CALORIFICO N°1287
07 -	SERRAMENTI PER L'ALIMENTAZIONE SOLUZIONI ACQUOSE N°2X10m3
08 -	SISTEMA DI CAMBIO DEL FORNO ROTATIVO
09 -	SISTEMA DI COMBUSTIONE LIQUIDI
10 -	SISTEMA DI COMBUSTIONE SOLIDI
11 -	SISTEMA DI COMBUSTIONE SOLIDI
12 -	SISTEMA DI TRATTAMENTO FUMI A SECCO
13 -	SISTEMA DI TRATTAMENTO FUMI A UMIDO
14 -	CAMMINA AUTOPORTANTE
15 -	SISTEMA D'ANALISI E MONITORAGGIO AL CAMMINO
16 -	QUADRI DI POTENZA, COMANDO E REGOLAZIONE - SISTEMA GESTIONALE
17 -	IMPIANTO DI TRATTAMENTO ACQUE CONCENTRATE PER EVAPORAZIONE SOTTO VUOTO (FORNITURA OPZIONALE)
18 -	IMPIANTO DI TRATTAMENTO CHIMICO-FISICO E BIOLOGICO DELLE ACQUE INTERNE
19 -	PRODUZIONE ARIA COMPRESSA
20 -	GENERATORE DI EMERGENZA
21 -	SISTEMA DI ALIMENTAZIONE GASOLIO
22 -	CABINA DI TRASFORMAZIONE HT/BT
23 -	AREA DI SVUOTAMENTO FUSTI
24 -	STOCCAGGIO FUSTI E BIG-BAGS
25 -	PESA A PONTE
26 -	IMPIANTO LAVAGGIO AUTOVEICOLI

*** How much waste does the plant burn? How long does it run and how much energy does it produce?**

- The plant, positioned on a reinforced concrete base of at least 1,500 square meters, burns, with a thermal potential of 6,000,000 kcal/hour, a flow rate of treated material up to 3 tons of waste per hour, remains on 24 hours a day, for 300 days a year, which correspond to about 8000 hours/year and stops only for maintenance and filter replacement. It produces 1.5 MW of which about 0.4 are used to self-power the plant and the remaining 1.1 MW are placed or sold on the network.

*** What waste materials does the plant produce?**

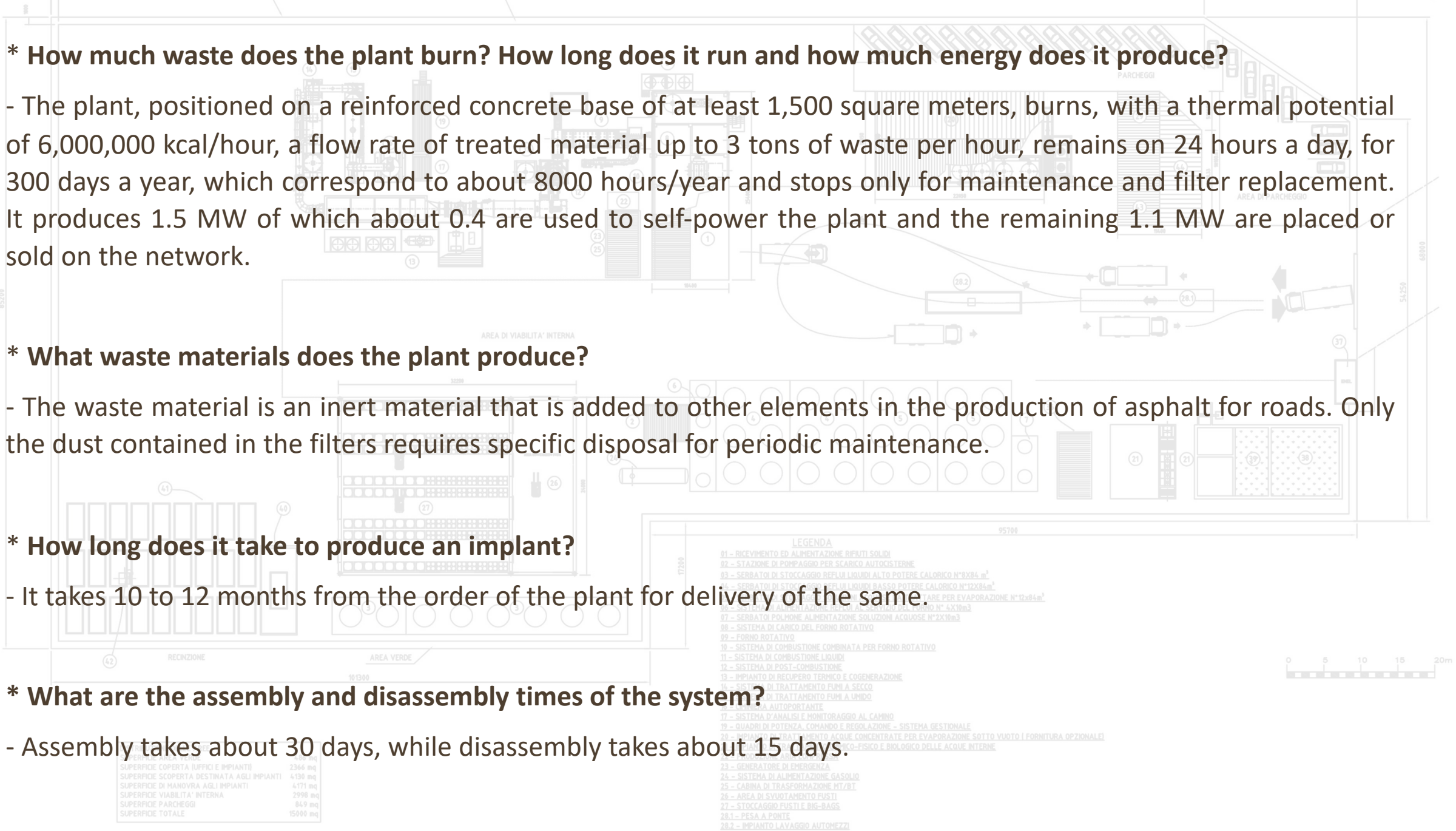
- The waste material is an inert material that is added to other elements in the production of asphalt for roads. Only the dust contained in the filters requires specific disposal for periodic maintenance.

*** How long does it take to produce an implant?**

- It takes 10 to 12 months from the order of the plant for delivery of the same.

*** What are the assembly and disassembly times of the system?**

- Assembly takes about 30 days, while disassembly takes about 15 days.



*** Does the plant solve the problem of remediation of polluted sites? Does it burn radioactive materials?**

- The project was created precisely to deal with this serious problem that afflicts numerous geographical areas. The only plant in the world that, thanks to mobility, can reach polluted sites in inaccessible areas, giving back to the community areas that are off-limits due to the danger caused by waste. However, it cannot burn radioactive waste.

*** How much staff do you need to employ, by whom are they trained, in how much time, and at what cost?**

- The plant requires 10/12 workers for assembly and disassembly, and 16 workers for regular operation, alternating in shifts, who are trained by our instructors in about 10/12 days, with costs included in the purchase fee.

*** Have the smoke emissions been measured?**

- Due to its construction characteristics, the plant disposes of waste through a high-temperature combustion process between 850 °C and 1050 °C, completely destroying the dangerous organic substances below about 70% of the permitted values. Appropriate tests were carried out in a pilot plant in the Czech Republic.

DISTRIBUZIONE DELLE AREE	
SUPERFICIE AREA VERDE	486 mq
SUPERFICIE COPERTA (UFFICI E IMPIANTI)	2366 mq
SUPERFICIE COPERTA DESTINATA AGLI IMPIANTI	4130 mq
SUPERFICIE DI MANOVRA AGLI IMPIANTI	4171 mq
SUPERFICIE VIABILITA' INTERNA	2998 mq
SUPERFICIE PARCHEGGI	849 mq
SUPERFICIE TOTALE	15000 mq

- LEGENDA
- 01 - SERBATOIO DI STOCCAGGIO REFLUI LIQUIDI BASSO POTERE CALORICO N°12X84m
 - 02 - SERBATOIO DI STOCCAGGIO REFLUI LIQUIDI BASSO POTERE CALORICO N°12X84m
 - 03 - SERBATOIO DI STOCCAGGIO REFLUI LIQUIDI BASSO POTERE CALORICO N°12X84m
 - 04 - SERBATOIO DI STOCCAGGIO REFLUI LIQUIDI BASSO POTERE CALORICO N°12X84m
 - 05 - SERBATOIO DI STOCCAGGIO REFLUI LIQUIDI BASSO POTERE CALORICO N°12X84m
 - 06 - SERBATOIO DI STOCCAGGIO REFLUI LIQUIDI BASSO POTERE CALORICO N°12X84m
 - 07 - SERBATOIO DI STOCCAGGIO REFLUI LIQUIDI BASSO POTERE CALORICO N°12X84m
 - 08 - SERBATOIO DI STOCCAGGIO REFLUI LIQUIDI BASSO POTERE CALORICO N°12X84m
 - 09 - SERBATOIO DI STOCCAGGIO REFLUI LIQUIDI BASSO POTERE CALORICO N°12X84m
 - 10 - SERBATOIO DI STOCCAGGIO REFLUI LIQUIDI BASSO POTERE CALORICO N°12X84m
 - 11 - SISTEMA DI COMBUSTIONE LIQUIDI
 - 12 - SISTEMA DI POST-COMBUSTIONE
 - 13 - IMPIANTO DI RECUPERO TERMICO E COGENERAZIONE
 - 14 - SISTEMA DI TRATTAMENTO FUMI A SECCO
 - 15 - SISTEMA DI TRATTAMENTO FUMI A UMIDO
 - 16 - CIMITIERA AUTOPORTANTE
 - 17 - SISTEMA D'ANALISI E MONITORAGGIO AL CAMMINO
 - 18 - QUADRI DI POTENZA, COMANDO E REGOLAZIONE - SISTEMA GESTIONALE
 - 19 - IMPIANTO DI TRATTAMENTO ACQUE CONCENTRATE PER EVAPORAZIONE SOTTO VUOTO (FORNITURA OPZIONALE)
 - 20 - IMPIANTO DI TRATTAMENTO CHIMICO-FISICO E BIOLOGICO DELLE ACQUE INTERNE
 - 21 - IMPIANTO DI TRATTAMENTO CHIMICO-FISICO E BIOLOGICO DELLE ACQUE INTERNE
 - 22 - PRODUZIONE ARIA COMPRESSA
 - 23 - GENERATORE DI EMERGENZA
 - 24 - SISTEMA DI ALIMENTAZIONE GASOLIO
 - 25 - CABINA DI TRASFORMAZIONE HT/BT
 - 26 - AREA DI SVUOTAMENTO FUSTI
 - 27 - STOCCAGGIO FUSTI E BIG-BAGS
 - 28.1 - PESA A PONTE
 - 28.2 - IMPIANTO LAVAGGIO AUTOVEICOLI



*** What does the cost of the system include?**

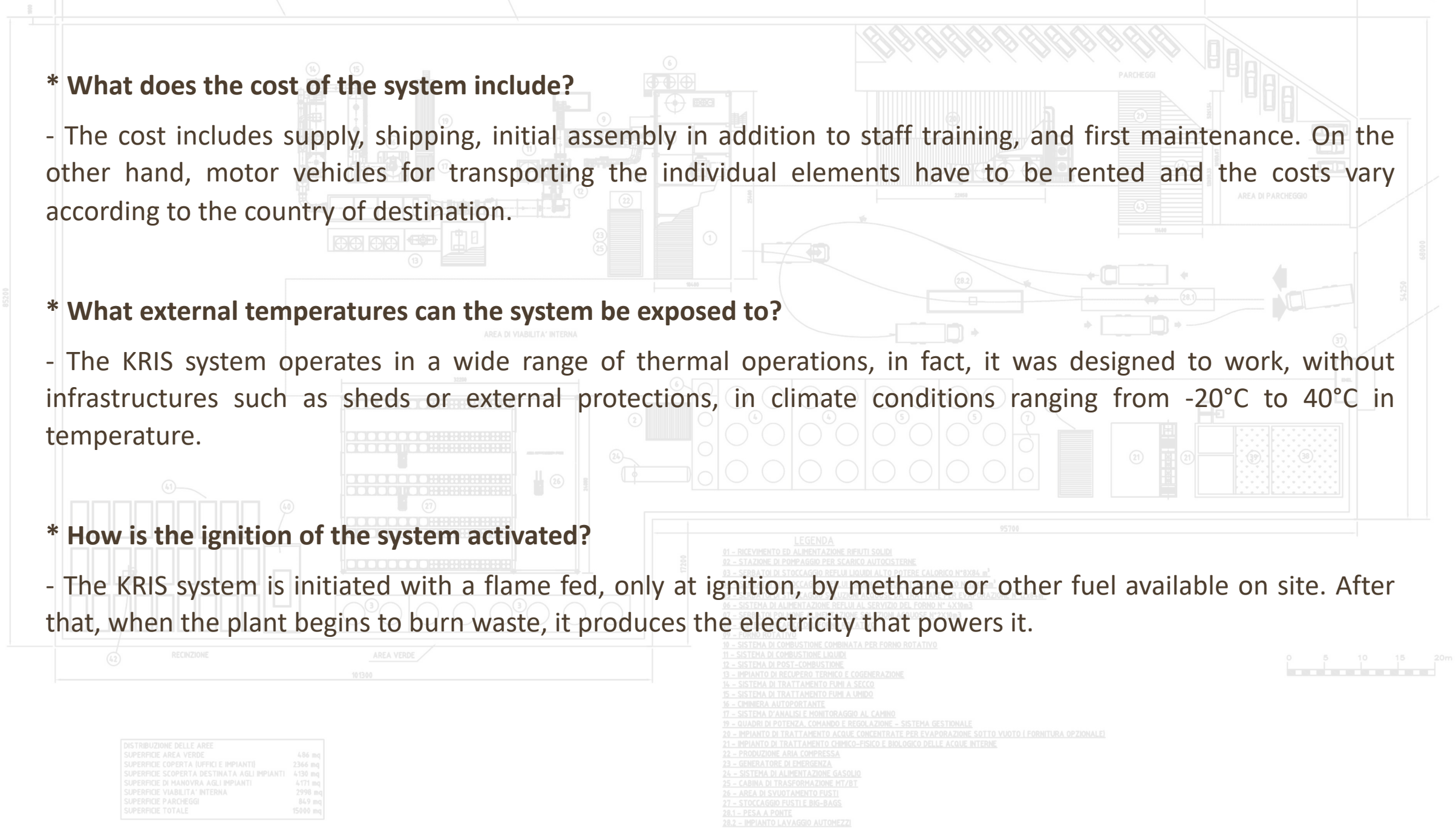
- The cost includes supply, shipping, initial assembly in addition to staff training, and first maintenance. On the other hand, motor vehicles for transporting the individual elements have to be rented and the costs vary according to the country of destination.

*** What external temperatures can the system be exposed to?**

- The KRIS system operates in a wide range of thermal operations, in fact, it was designed to work, without infrastructures such as sheds or external protections, in climate conditions ranging from -20°C to 40°C in temperature.

*** How is the ignition of the system activated?**

- The KRIS system is initiated with a flame fed, only at ignition, by methane or other fuel available on site. After that, when the plant begins to burn waste, it produces the electricity that powers it.



*** What are the technical requirements for the area where the system will be installed? In addition to the surface of at least 1,500 square meters, do you need water and electricity connections? Does the surface need to be equipped with concrete slabs?**

- Yes, you need a flat yard, with a reinforced concrete base of at least 1,500 square meters, with suitable connections for water, gas, and electricity.

*** What are the patents and certifications of the plant?**

- The system was patented in Italy and the production of most of the components is made in Italy. In each country, it is provided with all the certificates required in the individual states.

*** When were the patents issued?**

- The plant received the two patents from the Italian Patent and Trademark Office of the Ministry of Economic Development in February 2022, after two years of examinations and verifications by the bodies in charge.

*** Does the patent cover all countries of the world?**

- Yes, the patent covers every country on the five continents.

DISTRIBUZIONE DELLE AREE	
SUPERFICIE SCOPERTA DESTINATA AGLI IMPIANTI	4.130 mq
SUPERFICIE DI MANOVRA AGLI IMPIANTI	4.171 mq
SUPERFICIE VIABILITA' INTERNA	2.998 mq
SUPERFICIE PARCHEGGI	84,9 mq
SUPERFICIE TOTALE	15.000 mq

- LEGENDA**
- 01 - RICEVIMENTO ED ALIMENTAZIONE RIFIUTI SOLIDI
 - 02 - RIFIUTERIE
 - 03 - RIFIUTERIE
 - 04 - SERBATOI DI STOCCAGGIO REFLUI LIQUIDI BASSO POTERE CALORICO N°12X84m
 - 05 - SERBATOI DI STOCCAGGIO SOLUZIONI ACQUOSE E CATTAREE PER EVAPORAZIONE N°12X84m
 - 06 - RIFIUTERIE
 - 07 - RIFIUTERIE
 - 08 - SISTEMA DI CARICO DEL FORNO ROTATIVO
 - 09 - FORNO ROTATIVO
 - 10 - SISTEMA DI COMBUSTIONE COMBINATA PER FORNO ROTATIVO
 - 11 - SISTEMA DI COMBUSTIONE LIQUIDI
 - 12 - SISTEMA DI POST-COMBUSTIONE
 - 13 - IMPIANTO DI RECUPERO TERMICO E COGENERAZIONE
 - 14 - SISTEMA DI TRATTAMENTO FUMI A SECCO
 - 15 - SISTEMA DI TRATTAMENTO FUMI A UMIDO
 - 16 - CENERAIA AUTOPORTANTE
 - 17 - SISTEMA D'ANALISI E MONITORAGGIO AL CAMMINO
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 - 28.2 - IMPIANTO LAVAGGIO AUTOMEZZI



*** Which ISO certifications does your company have?**

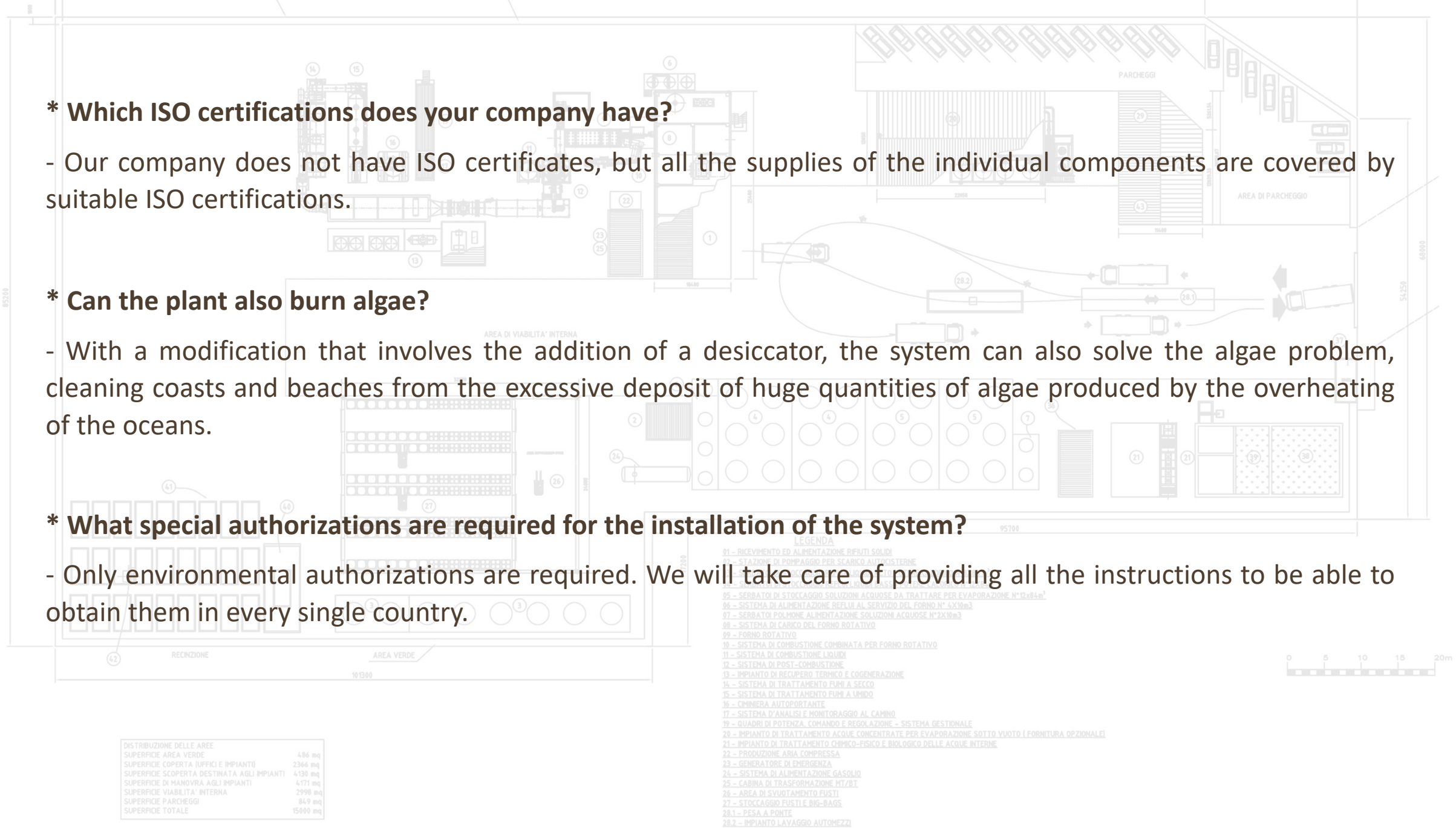
- Our company does not have ISO certificates, but all the supplies of the individual components are covered by suitable ISO certifications.

*** Can the plant also burn algae?**

- With a modification that involves the addition of a desiccator, the system can also solve the algae problem, cleaning coasts and beaches from the excessive deposit of huge quantities of algae produced by the overheating of the oceans.

*** What special authorizations are required for the installation of the system?**

- Only environmental authorizations are required. We will take care of providing all the instructions to be able to obtain them in every single country.





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