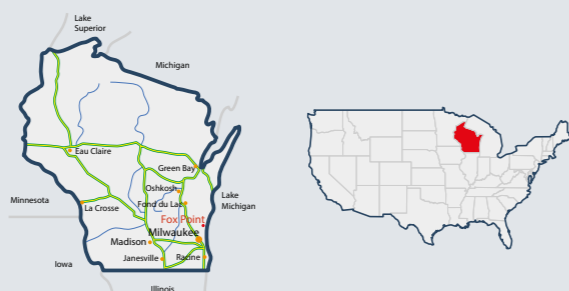




Via Madonna 17
 22070 Guanzate (CO) ITALY
 Phone: +39 (0) 031 939511
 dct.contact@dct.co.com



DONAU CARBON TECHNOLOGIES SRL USA INC
 Donau Carbon Technologies USA
 8620 N. Regent Rd. - Fox Point, WI, 53217
 Ph.: 262 271 2283
 dct.contact@dct.co.com



www.dct.co.com



**Your EPC contractor
 for process plants**



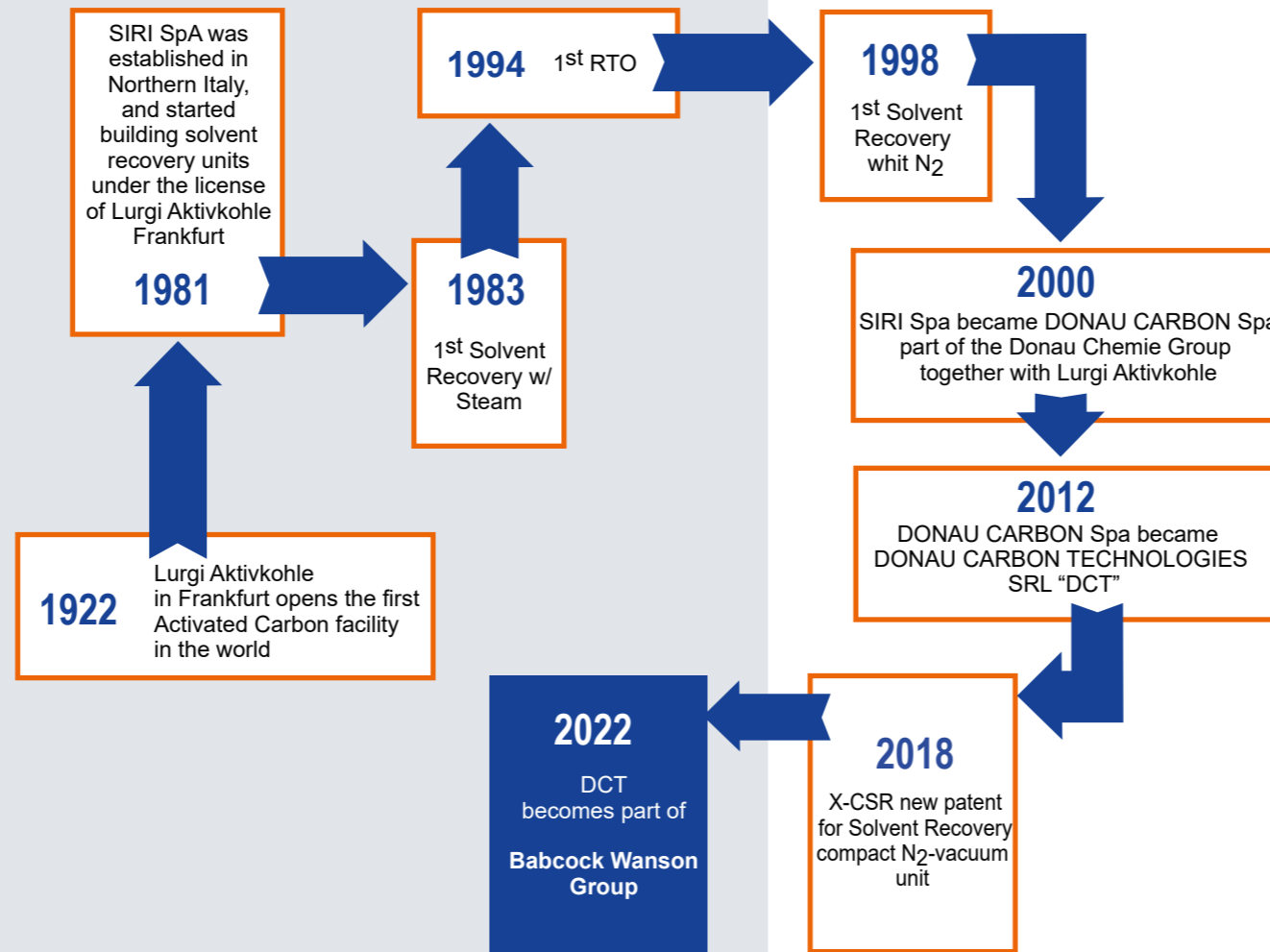
Company

Donau Carbon Technologies Srl ("DCT") was formed in 1981 and since then has offered its customers a complete range of environmental solutions centered around compliance with emission limit standards. During these past 40 years, the company has provided multiple solutions in the air treatment field:

Solvent recovery plants, thermal oxidizers, air treatment systems incorporating wet scrubbers and bag filters as well as a variety of complementary services. DCT is proud to be ISO 9001 quality certified since 1998.

In 2022 DCT joins Babcock Wanson group Partnering will help both companies to consolidate the presence worldwide. DCT and Babcock Wanson will share their own experience in the realization of plants for exhaust air purification and energy recovery.

The company is headquartered in Guanzate approximately 30 km North of Milan 25;minutes away from the Milan Malpensa airport.



Products & Solutions

Our main technologies concern the treatment of volatile organic compounds (VOC), and specially:

Solvent recovery plants

by means of adsorption on activated carbon and steam or nitrogen regeneration (SR)

Regenerative thermal oxidizer (RTO)

Recuperative thermal oxidizer (TO)

Catalytic oxidizer (RCO)

DeNOx units

Rotor and static concentrators

Air treatment plants

with wet scrubber and bag filters

Solvent recovery plants

by means of water adsorption

Besides the basic technologies, Donau Carbon Technologies Srl provides a range of complementary services:

Filling, replacement and sieving

of activated carbon contained into the adsorbers

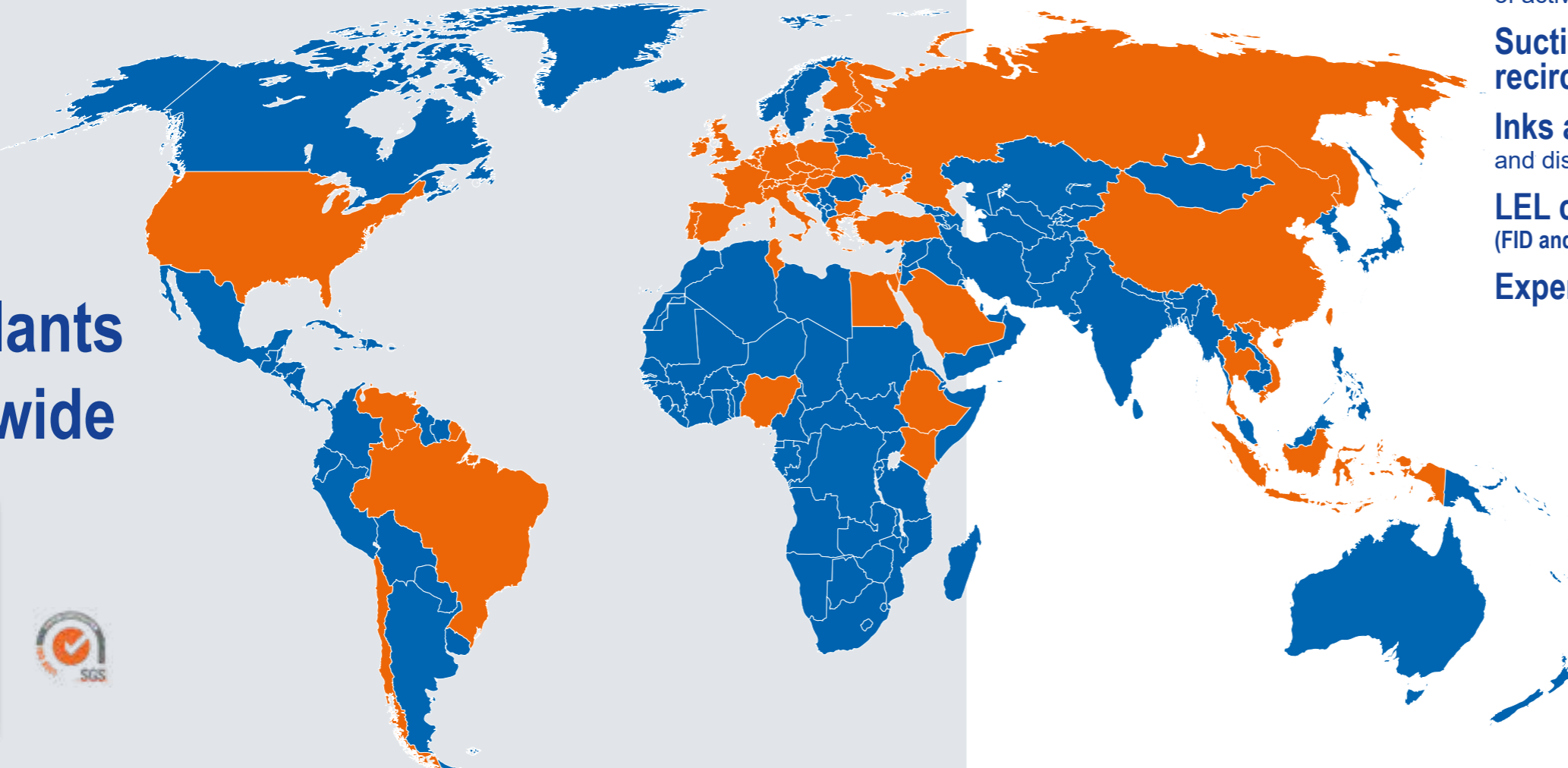
Suction air optimization and flow recirculation control

Inks and solvents storage and distribution systems

LEL control system (FID and IR)

Experienced on site & remote assistance

DCT Plants Worldwide





Solvent Recovery Systems

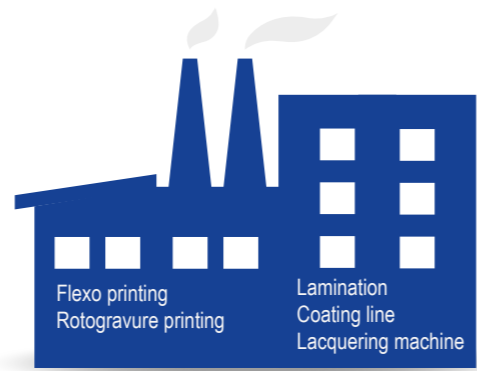
Donau Carbon Technologies Srl manufactures Solvent Recovery Systems with activated carbon adsorption using steam or inert gas for the regeneration.

A distillation section (batch or multi-columns) allows the achievement of very high level of purity (most of the times exceeding the international standards) for the recovered solvents to then be reused in production.

Particular attention has been put into the design of our SRS to make sure they will be easy to use and open to the growth of your company thanks to the concept of “modularity”.

All the above will translate into huge savings on the production cost of our customers.

These systems will allow Solvent recovery plants with circular and sustainable economy allowing a quick payback time when about 300 ton/year of solvents are sent to the plant.



Solvent 500~2.500 tons/y

Revenues
500~2.500k €/y



Existing - RTO
Back-up



25.000 ~ 110.00 m³/h
Solvent: 550~2.500 T/y

Opex € 80~250 k/y
CO₂ ~ 1.000~5.000 T/y
emission savings (sustainability) Pay
Back Time <2,5 years

CARBON FREE EMISSION TECHNOLOGY



DCT new-patented product: X-CSR

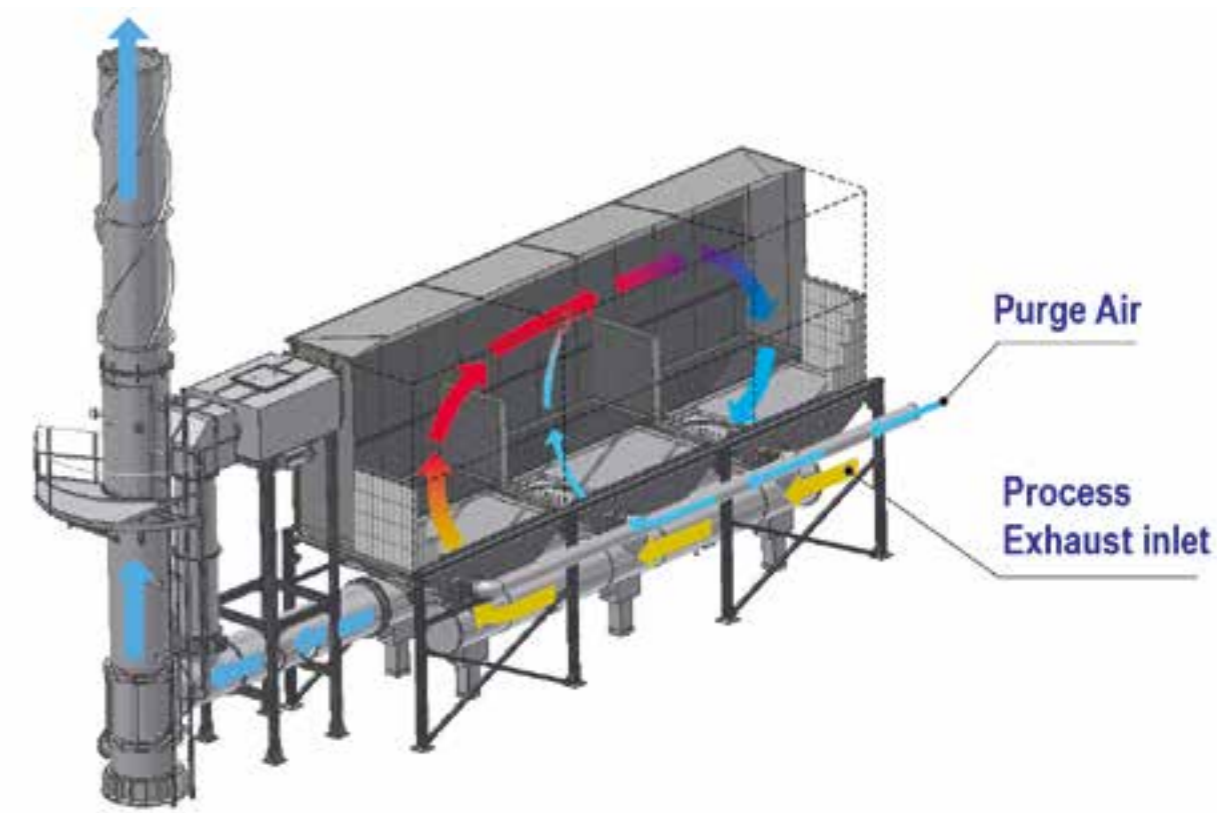
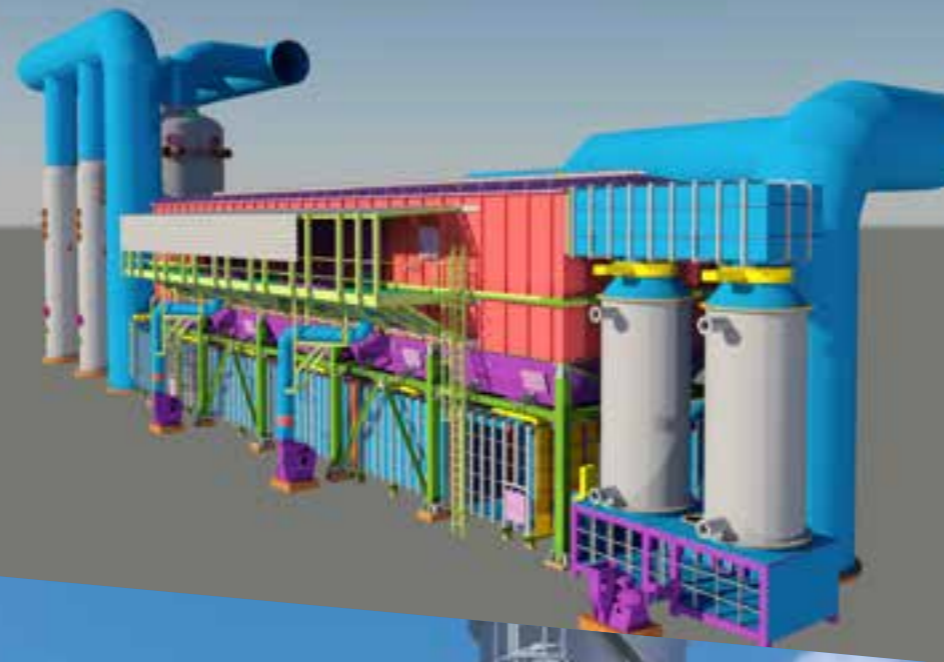
DCT's innovative plant, X-CSR, is geared to the printing business, and aims to extend solvent (and also solvent blends) recovery technology, generally adopted only by big companies, to SMEs that are using smaller quantities.

Advantages of X-CSR plant are:

- Circular Economy
- Reduction of raw material
- Environmentally friendly
- CO₂ emission savings
- Suitable for small printing industries
- Modularity
- Capacity of recover as little as 300 tons/y of solvents
- Payback time <3 years
- Compact, easy maintenance, plug & play design
- High residual value
- BAT compliant



LNG DEACIDIFICATION PROCESS RTO 330 + SCRUBBER



Regenerative Thermal Oxidizers (RTO)

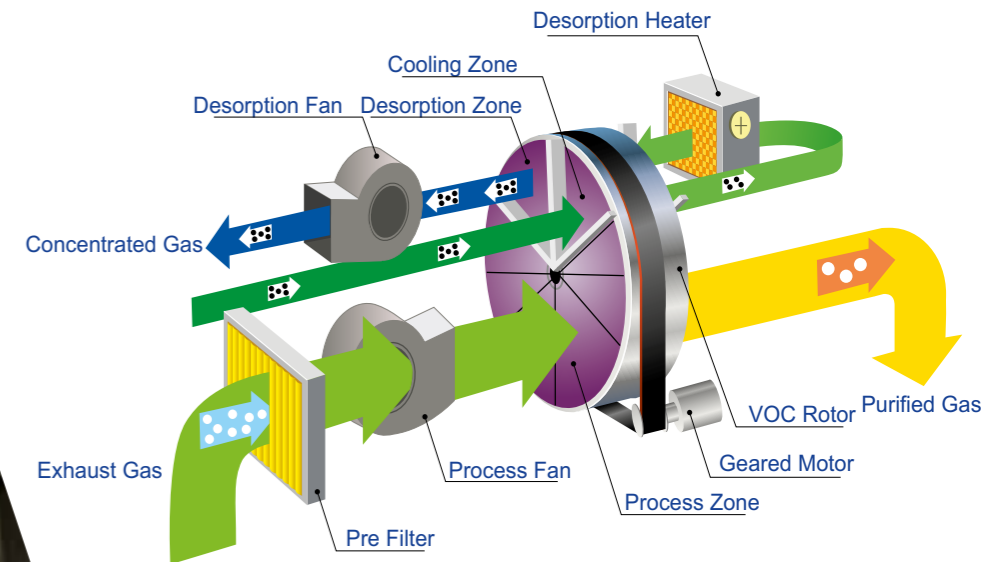
The Regenerative Thermal Oxidizer allows VOC abatement by increasing the polluted air temperature to over 750-800°C with a high efficiency heat recovery system based on the use of ceramic material.

Donau Carbon Technologies Srl has installed more than 300 RTOs worldwide, whose capacities range from 3.000 to 300.000 Nm³/h designed in accordance to the latest and highest quality and reliability standards.

Our RTO are designed with one thing in mind; achieving the highest possible performances:

- Up to 99% VOC removal efficiency
- Up to 95% thermal efficiency
- Very low utilities consumption
- High abatement capability for Solvent Laden Air flow and solvent concentrations
- Minimized CO and NO_x emissions
- Low maintenance costs
- Consistency of performances during years
- First choice materials and components





Other products

VOC Concentrator Units

We offer different type of concentrators for the purification of polluted air with low solvent concentration ($< 1 \text{ g/m}^3$). This technology allows for a significant reduction of the polluted air flow, optimizing at the same time the concentration of pollutant that go into the treatment system with a significant reduction of operating cost. Both static and rotating concentrators can be installed according to the different conditions.

Catalytic Oxidation

Catalytic oxidation is a process to treat waste air or gases. Traditional oxidation processes are run at temperatures higher than 750°C . When few organic compounds are present in the gas stream, to keep these temperatures, the incineration process needs a high quantity of additional fuel. With the catalytic oxidation pollutants are oxidised at lower temperatures, usually in the range of $300\text{-}350^\circ\text{C}$ with very high efficiency.

Scrubber & Filter Treating Systems

DCT provides purification systems for polluted fumes by means of wet scrubber and bag filter. These systems are typically used for industrial processes where inorganic pollutants (HCl , Cl_2 , NaOH , SO_x) and dust are present. An entirely automated system allows the monitoring of the scrubbing phase and the complete discharge of the residual solid waste into flexible intermediate bulk containers.