Oxyblue™, a totally new concept on the market, combines the increase in biodegradability, provided through controlled contact between persistent organic matter and ozone, with the high performing biological treatment by biofiltration (Biofor™). In the treatment line, Oxyblue™ is the final step before discharge or associated to ultrafiltration or reverse osmosis for reuse purpose.

**innovation**
chemical / biological oxidation synergy allowing optimal elimination of persistent COD

Oxyblue™, a totally new concept on the market, combines the increase in biodegradability, provided through controlled contact between persistent organic matter and ozone, with the high performing biological treatment by biofiltration (Biofor™). In the treatment line, Oxyblue™ is the final step before discharge or associated to ultrafiltration or reverse osmosis for reuse purpose.

**key figure**
up to 60% of COD eliminated
Oxyblue™ technology . . .

Positioned after a biological treatment process, Oxyblue™ comprises 2 main units: an ozone tower whereby the effluent comes into contact with gaseous ozone (ozonation process) and a compact biological aerated filtration system – Biofor™ – integrating fixed biological cultures (expanded clay beads on which micro-organisms develop).

"Booster" technology: aiming to radically reduce the persistent pollution loads of the wastewater, Oxyblue™ uses the high-oxidation power of ozone to initiate and boost the residual organic matter degradation process.

After ozone application, effluent is transferred, in the Biofor™ biofilter in which aerobic bacteria complete the elimination of carbon and nitrogen pollution.

. . . what it can do for you

- up to 60% of COD eliminated
- allows effluent discharge into sensitive zones
- investment pays for itself right from the first few years of operation
- subsequent treatment with membranes even more reliable (ultrafiltration and reverse osmosis) with a decrease of up to 50% of reagent consumption for membrane washing and a significant increase in the service life of subsequent ultrafiltration membranes
- small footprint and modular design supports rapid adaptation to changes in loads and flow rates

among our references

| Syrai, Tereos group, Nesle, France | PetroChina Company Ltd, Chengdu, China |
| SCA group, Laakirchen, Austria | PetroChina Company Ltd, Yunnan, China |
| capacity: 250 m³/h | capacity: 1,600 m³/h |
| capacity: 2,500 m³/h | capacity: 1,200 m³/h |

SUEZ treatment infrastructure

innovation.mailin@degremont.com

www.degremont.com