Intelligent control solutions for WWTP
Energy Efficiency & Process Optimization

www.createch360.com
CREA® PLATFORM

CREA® is an operational intelligence platform that supports real-time control and decision making to reduce operational costs, enhancing reliability and achieving quality consent limits.

Based on real-time monitoring and advanced data management, using cutting edge data analysis and artificial intelligence algorithms, CREA® implements the most suitable operation strategy with the aim to:
- Guarantee effluent discharge requirements
- Reduce operating costs (energy, chemicals, etc.)
- Process intelligence reporting & indicators

BENEFITS

INTEGRAL MANAGEMENT
Key processes optimization: aeration, sludge line, anaerobic digestion, cogeneration, etc.

REAL-TIME DATA MONITORING
Quality parameters, equipment performance, energy cost evolution, weather forecast.

INTELLIGENT CONTROL LOGICS
Classical mathematical models + Expert knowledge based on fuzzy logic, pattern recognition and machine learning.

CONTROL STRATEGIES
Feed-back, Feed-forward, adaptive - predictive, energy tariff, equipment management

PROCESS INTELLIGENCE
Decision support dashboards, automatic reporting based on advanced data analytics and Key Performance Indicators (KPIs)

TRAINING & SUPPORT
Full assistance, training and after-sale service to platform users

Average payback 1-3 years!
ONE PLATFORM, TAYLORED SOLUTIONS

Solutions

- Fully customized with cutting edge solution
- Plug & play solution for small WWTP
- 1 tool for multiple CREA platform

Modules

- Nutrient removal
- Carbon removal
- Air Production & Distribution
- Internal & External recirculation
- Phosphorous removal
- Sludge Retention Time
- Homogenization / Storm tank
- External Nitrogen / Carbon input
- Anammox, Anaerobic reactor, etc.
- Anaerobic digestion
- Sludge Thickening
- Sludge Dewatering
- Co-generation
- Co-digestion
- Advanced Energy Management
- IDM - Intelligent Data Monitoring (data validation & correction)

Flexibility

- Flexible & adaptable communication architecture to existing systems.
- All reactor configuration (plug flow, concentric, carroussel, SBR, etc.).
- All aeration systems (continuous and discontinuous).
- All treatment capacity (applicable to any treatment capacity).
- All quality requirements (nutrient and/or OM removal).
EXPERIENCE

Createch360® joins a hybrid team of IT - computational intelligence, water engineering and business professionals delivering the most advanced solutions to optimize processes within the urban and industrial wastewater treatment sector.

With over 100 installations worldwide, 20 years of experience in the sector and continuous innovation, Createch360® guarantees high added-value solutions enabling utilities and industrial users to achieve maximum efficiency and optimal facilities performance.

<table>
<thead>
<tr>
<th>WWTP</th>
<th>Country</th>
<th>Design flow (m³/day)</th>
<th>Energy saving (%)</th>
<th>GHG reduction (TCO₂/year)</th>
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</thead>
<tbody>
<tr>
<td>La Farfana</td>
<td>Chile</td>
<td>760.320</td>
<td>18%</td>
<td>1.653</td>
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<tr>
<td>Mapocho - Trebal</td>
<td>Chile</td>
<td>760.320</td>
<td>13%</td>
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<td>Besòs</td>
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<td>525.000</td>
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<td>20%</td>
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<td>25%</td>
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<td>37%</td>
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<td>Olot</td>
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<td>Heinz (Industrial)</td>
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<td>Bodegas Torres (Industrial)</td>
<td>Spain</td>
<td>600</td>
<td>n.a.</td>
<td>n.a.</td>
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</tbody>
</table>

n.a.: New plant or non-available data.

THEY ALREADY TRUST IN US!

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