



PROCESS SOLUTIONS<sup>®</sup>

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## PROCESS SOLUTIONS®

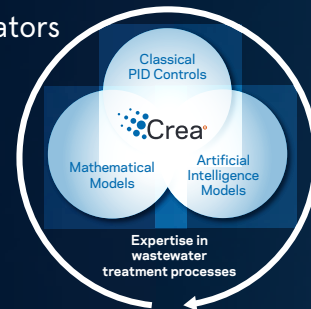
Te-Tech's extensive capabilities in process design, MCC, control panels and system integration is strengthened by our relationship with **Cretech360°** for the design and implementation of intelligent control solutions.

### 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 the most advanced data analysis and artificial intelligence algorithms, CREA® implements the most suitable operation strategy to:

- Provide intelligence reporting & key performance indicators
- Guarantee effluent discharge requirements
- Reduce operating costs
- Provide additional treatment capacity



### FLEXIBILITY

- One platform for flexible communication with existing control systems
- Suitable for all treatment processes
- Suitable for large and small treatment works
- Caters for all quality requirements



### BENEFITS

360°

**INTEGRAL MANAGEMENT**  
Key processes optimisation: aeration, sludge treatment, anaerobic digestion, co-generation.



**ASSET OPTIMISATION**  
Feed-back, Feed-forward, adaptive - predictive, energy tariff, equipment management



**REAL-TIME DATA MONITORING**  
Quality parameters, equipment performance, energy cost movements, weather forecasting.



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



**INTELLIGENT CONTROL**  
Classical mathematical models & expert knowledge based on fuzzy logic, pattern recognition and machine learning.



**TRAINING & SUPPORT**  
Full assistance, training and continuous support to platform users

100%

Treated water quality guaranteed

Up to 40%

Reduction in kWh consumption

Up to 50%

Reduction in energy cost

Up to 35%

Reduction in chemicals consumption

Up to 10%

Reduction in sludge treatment cost

### ONE PLATFORM, FLEXIBLE SOLUTIONS

**Creapro®**

Fully customized with cutting edge solution

**Crea compaq®**

Plug & play solution for small sites

**Crea master®**

1 tool for multiple CREA platform

Nutrient removal

Sludge Retention Time

Anaerobic digestion

Advanced Energy Management

Carbon removal

External Nitrogen / Carbon input

Sludge Thickening

IDM - Intelligent Data Monitoring  
(data validation & correction)

Air Production & Distribution

Anammox, Anaerobic reactor, etc.

Sludge Dewatering

Internal & External recirculation

Storm Event Management


Co-generation


Phosphorous removal

Co-digestion



## EXPERIENCE

Te-Tech Process Solutions and  Createch360 combines IT - artificial intelligence, water engineering and business professionals delivering advanced solutions to optimise processes within the municipal and industrial wastewater treatment sector.

The  Createch360 platform with over 100 installations worldwide, guarantees effective asset management enabling users to achieve maximum efficiency and optimal performance.

WWTP	Country	Design flow (m <sup>3</sup> /day)	Energy saving (%)	CO <sub>2</sub> reduction (TCO <sub>2</sub> /year)
La Farfana	Chile	760.320	18%	1.653
Mapocho - Trebal	Chile	760.320	13%	1.038
Besòs	Spain	525.000	19%	772
Barcelona - Baix Llobregat	Spain	420.000	35%	1.400
Lodz	Poland	215.300	17%	646
Lleida	Spain	70.000	n.a.	n.a.
Radocha II	Poland	65.000	20%	218
Palencia	Spain	55.000	n.a.	n.a.
Brembate	Italy	53.600	25%	105
Manresa	Spain	53.500	n.a.	n.a.
Agra I-II	Portugal	44.336	37%	557
Serzedelo I-II	Portugal	40.697	26%	354
Andorra Sud	Andorra	30.000	14%	165
Lordelo	Portugal	28.063	n.a.	n.a.
Belchatow	Poland	13.000	n.a.	n.a.
Olot	Spain	10.000	20%	75
Berga	Spain	8.300	n.a.	n.a.
Heinz (Industrial)	Spain	2.500	15%	17
Bodegas Torres (Industrial)	Spain	600	n.a.	n.a.

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

- ✓ Sustainability & Carbon Management
- ✓ Reduced Chemical Consumption
- ✓ Reduced Energy Demand
- ✓ Guaranteed Performance
- ✓ Increased Treatment Capacity



**PROCESS SOLUTIONS®**

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