



**Ecological solutions for the use of water**  
**Soluciones ecológicas para el aprovechamiento del agua**  
**Soluciones ecológicas para o uso da água**  
**Solutions écologiques pour l'utilisation de l'eau**  
**Soluzioni ecologiche per l'utilizzo dell'acqua**  
**Экологические решения по использованию воды**

SMART ECO WATER GROUP, S.L.  
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## PRESENTATION OF WASTEWATER TREATMENT SYSTEM SMART ECO WATER GROUP, S.L.

### GENERAL CONTENTS

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### 1. INTRODUCTION AND SCOPE

**SMART ECO WATER GROUP, S.L.**, PRESENTS A REVOLUTIONARY SOLUTION FOR THE TREATMENT AND PURIFICATION OF WASTEWATER USING VORTEX WAVE REACTOR (ROV) TECHNOLOGY, TRANSFORMING WASTEWATER INTO TECHNICAL WATER AND RAW MATERIALS THAT CAN BE USED FOR INDUSTRY AND AGRICULTURE.

Specialists in wastewater treatment and purification to obtain technical water and raw materials for industry and the field.

#### Unique Value Proposition:

- World-exclusive technology that combines vortex waves with physicochemical processes.
- Revolutionary energy efficiency, with 60% lower consumption than traditional methods.
- Full automation, allowing one-person operation.
- Comprehensive sustainability, without odors or dangerous sludge, and with 100% disinfection.

#### Our Experience:

- Years of scientific research
- Multiple international patents
- Specialized technical knowledge
- In-house design developments
- Operational experience in several countries

#### Unique Features:

*It is the only system whose decontamination method uses vortex waves and physicochemical processes to purify water, highlighting its high efficiency and operational advantages over traditional methods*

- Original and easy-to-use treatment plants
- Equipment with no analogues on the market
- Reliable operating system
- Low operating costs

#### System Capabilities:

- Domestic, industrial, and stormwater treatment
- Manure processing with transformation into organo-mineral fertilizers
- Recycling of activated sludge and industrial waste
- Production of technical or 100% potable water for human consumption

#### System Versatility:

- Mobile installation: On trucks for rapid emergency response
- Maritime installation: On ships for ballast water treatment
- Modularity: Scale without stopping existing operations



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### Derivative Products:

- Technical water: For irrigation, urban cleaning, industrial processes
- Fertilizers: Sludge processed as organic-mineral fertilizer
- Syngas: Production of energy from organic waste

## 2. VORTEX WAVE TECHNOLOGY

### Technological Innovation

Smart Eco Water Group's innovative technology is based on the vortex wave method, never used in wastewater treatment.

### System Description:

The system is designed to operate in a continuous and cyclical manner, with a low energy consumption of less than 1 kW/m3 of waste. In addition, it does not produce unpleasant odors in the vicinity of the facility, unlike conventional biological treatment technologies that face odor problems and sludge accumulation.

### System Advantages:

- Ease of operation: It can be operated by a single person.
- Modularity: Allows you to increase productivity without stopping the existing line of work.
- Compact: Facilities require less space compared to traditional biological treatment plants

### Working Principle:

The system uses the vortex wave method, applying only physical and chemical processes in a closed module that includes:

- High-power rotating electromagnetic field
- Simultaneous effects: Cavitation, localized temperature (1700°C), localized pressure (180 atm), magnetostriction
- Advanced oxidation: OH+ radicals, ozone, hydrogen peroxide
- Processing time: 1.5 seconds in work area

### Process Features:

- Physical and chemical processes only
- Closed operation module
- 1000 times faster reaction speed
- Destruction at the intramolecular level. Substances are modified at the intramolecular level
- Nanometric crushing of impurities. Mechanical impurities reduced to nanometer sizes
- 100% neutralization: Total elimination of viruses, bacteria, drugs, antibiotics, pesticides, phenols, heavy metals
- Complete disinfection: According to bacteriological and parasitological indicators

### Processing Time:

1.5 seconds in the reactor working area to:

- Neutralize 100% viruses and bacteria
- Eliminate hormonal drugs
- Destroy antibiotics and pesticides
- Remove phenols, fluorine, and nitro compounds
- Remove heavy metals

## 3. DETAILED WORKING PRINCIPLE

### Physicochemical Fluid Type Reactor

The technological core combines multiple simultaneous effects:

1. Powerful magnetic field
2. Ferromagnetic Needles
3. Cavitation
4. Ultrasound
5. Magnetostriction
6. Electrolysis



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#### **Oxidation Process:**

- Breaking molecular bonds
- Breakdown of water into natural oxidants
- Reaction with toxic impurities
- Oxidation into eco-friendly insoluble compounds

#### **Vortex Wave Reactor (ROV):**

- Controlled liquid inlet
- Electromagnetic inductor
- Ferromagnetic needles (working bodies)
- Inductor windings
- Optimized workspace

### **4. APPLICATIONS AND IMPLEMENTATION SECTORS**

#### **Industrial Sectors:**

- Food processing plants
- Dairy plants
- Manufacturing
- Service stations
- Galvanic industry
- Thermal power plants and boiler rooms
- Oil Fields and Platforms

#### **Agricultural Sector:**

- Farms and livestock farms
- Poultry industry
- Manure processing
- Transformation into organo-mineral fertilizers

#### **Urban Sector and Services:**

- Resorts and hotels, including camping.
- Residential developments
- Sports fields and stadiums, golf courses, riding fields.
- Hospitals and health centers
- Municipal: Public and private network

#### **Special Applications:**

- Installation on ships (ballast water)
- Truck mounting (quick response)
- Cleaning of old lagoons
- Environmental emergencies (spills)

### **5. DETAILED COMPARISON WITH BIOLOGICAL SYSTEMS**

Aspect	Traditional Biological Treatment	Smart Eco Water System
Operation	Requires periodic loading/discharging of bacterial cultures (activated sludge)	A single person operates the system
Operation	Unstable during outages	24 hours continuous or cyclical as needed
Energy consumption	High consumption	Less than 1 kW/m <sup>3</sup>
Odors	Permanent unpleasant odor	Odorless
Processing capacity	Unable to process surfactants and petroleum derivatives	100% guaranteed disinfection
Dimensions	Impressive overall dimensions	Compact and modular
Required Area	>1 hectare + filtration fields	100-200 m <sup>2</sup> (5x reduction)
Waste	Bacteriologically dangerous sludge	Sludge usable as fertilizer



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Construction Costs	High infrastructure costs	Requires only flatbed
Maintenance	Complex and expensive	Minimal, automated

## 6. FULL TECHNICAL SPECIFICATIONS

### "Colesent-M-BTSV-200" Complex

#### Key features:

- Productivity: Up to 400 m<sup>3</sup>/day (17 m<sup>3</sup>/hour)
- Configuration: 2 x 40ft containers (12.5 x 2.5 m)
- Dimensions: 2.4 x 2.9 x 12 m per container
- Staff: 1 operator per shift
- Installed power: 25 kW maximum
- Energy consumption: 0.4 kW/m<sup>3</sup>
- Shelf life: Minimum 20 years

#### Cleaning Steps:

##### FIRST PASS (Underground)

- Preliminary cleaning module M
- Separation and dehydration of large inclusions

##### SECOND PASS (Underground)

- Extensive wastewater storage

##### THIRD STEP (On the ground)

- Installation "Coleser M-BTSV"
- Electrochemical Oxidation Unit (ECHO)
- Ultrafiltration unit
- Electrochemical Destroyer (ECD)
- Sludge accumulator

##### FOURTH STEP (Underground)

- Final treatment module

#### Technical Data:

- Yield: 200 m<sup>3</sup>/day
- Voltage: 380V three-phase
- Energy consumption: 50 kW/h average
- Automation: Complete with remote control
- Mode: 24/7 without affecting performance
- Shelf life: Minimum 20 years
- Maintenance: Monthly

## 7. CASE STUDY: GAS STATIONS

#### Specific Problems:

- High degree of contamination
- High concentration of organic components
- Elevated ammonium group
- Synthetic napkins and toiletries

#### Technological Solution:

- Combination of physical, mechanical and electrochemical methods
- Redox processes in electric field
- Formation of oxidants: hypochlorite, hydrochloric acid, oxygen, H<sub>2</sub>O<sub>2</sub>



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### System Advantages:

- Working with heavily polluted water
- Controllable and automatable processes
- Non-inertial system
- Adaptable to seasonal fluctuations
- 100% guaranteed disinfection
- Reduced sanitary area (15-30 m)

## 8. CERTIFIED RESULTS AND ANALYSIS

### Measurement Protocol - Isolated Plant

Parameter	Before	After	Norm
pH	7.79	7.06	6-9
Suspended solids (mg/l)	432.0	2.0	10
Ammonium salt (mg/l)	49.98	4.04	2.0
Nitrates (mg/l)	19.60	12.69	40.0
Nitrites (mg/l)	2.91	0.22	.0
Sulfates (mg/l)	-	6.25	500
Chlorides (mg/l)	80.85	12.76	350
Phosphates (mg/l)	7.98	Undetected	0.05
BOD <sub>5</sub> (mg/L)	124.0	3.83	3.0
Dry residue (mg/l)	911.0	380.0	1000
Coliform bacteria	-	Not found	100
Coliphages	-	Not detected	100
Fecal strep	-	Undetected	100

### Conclusions of the Analysis:

1. Phosphorus removal: 100%
2. Heavy Metal Reduction: Below CAM
3. COD/BOD<sub>5</sub> reduction: 12-15 times
4. Suspended solids: Below CAM
5. Disinfection: 100% complete

### Quality of Treated Water:

Complies with international regulations:

- Order No. 552 of the Ministry of Agriculture
- SanPiN 2.1.5.980-00 "Hygienic Requirements for Surface Water Protection"
- Standards for discharge into bodies of water of fishing importance

## 9. ECONOMIC AND OPERATIONAL ADVANTAGES

### Cost Reduction:

#### Construction and Installation:

- Facilities area: 5x reduction
- Construction Costs: 3x Reduction
- Health protection zone: Only 25 m
- Power consumption: 8x reduction
- No gaps or filtration fields

#### Operation:

- Energy consumption: 0.4 kW/m<sup>3</sup> (8x reduction)
- Staff: 1 operator per shift
- CaON<sub>2</sub> Reagent: 100-150 g/m<sup>3</sup>
- Total operating cost: 0.395 €/m<sup>3</sup>

#### Cost Breakdown per m<sup>3</sup>:

- Reagent: 0.0047 €



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- Energy\*\*: 0.028 €
- Total cleaning: 0.395 €

#### **Environmental Benefits:**

- Health protection zone: Only 15-30 meters
- No groundwater contamination
- Reusable treated water for irrigation
- Sludge convertible into organic-mineral fertilizer
- Closed process with no emissions

#### **Additional Benefits:**

- 95% factory construction
- 5% on-site installation
- No secondary contaminants
- No chlorine application
- Reusable water

## **10. CERTIFICATIONS AND REGULATIONS**

#### **Certifications obtained:**

- Declaration of conformity EAEU N RU D-RU. AZh22.V.01341
- TR CU 010/2011: Safety of machinery and equipment
- TR CU 020/2011: Electromagnetic Compatibility
- STO 22221175-001-2013: Technological line for neutralization

#### **Accredited Laboratories:**

1. State Unitary Enterprise "Voda Kryma"
2. Crimean Center for Hygiene and Epidemiology
3. Federal Budgetary Institution "Krymsky"

## **REGULATORY COMPLIANCE DEBUGGING**

#### **RUSSIAN LEGISLATION**

- Order No. 552 (12/13/2016)- Ministry of Agriculture
- SanPiN 2.1.5.980-00 - Hygienic requirements for surface water
- SanPiN 2.1.7.573-96 - Use of sludge for fertilization
- GOST R 54651-2011 - Organic sludge-based fertilizers

## **INTERNATIONAL COMPLIANCE ANALYSIS OF SMART ECO WATER PURIFICATION SYSTEMS**

#### **EUROPEAN LEGISLATION**

##### *Urban Wastewater Treatment Directive (2024):*

The European Union has adopted new, stricter rules that will come into force in 2025, stating that member states must treat wastewater from all agglomerations of more than 1,000 population equivalents. The new directive maintains secondary treatment obligations and adds additional nutrient removal requirements.

#### **SMART ECO WATER COMPLIANCE - EUROPE**

*Superiority in European Standards*

##### **Smart Eco Water Compliance:**

- Phosphorus reduction: 100% (exceeds EU standard)
- Secondary Treatment: 95-98% reduction COD and BOD
- Disinfection: 100% pathogen removal
- Target populations: Ideal for communities of 500-1000 inhabitants

The new European standards seek to "better protect citizens and the environment", objectives that Smart Eco Water amply meets with its vortex wave technology that guarantees 100% disinfection without generating dangerous sludge.



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## GLOBAL STANDARDS - WHO

*Guidelines for the Safe Use of Wastewater*

## GLOBAL STANDARDS - WORLD HEALTH ORGANIZATION (WHO)

*Guidelines for the Safe Use of Wastewater*

The WHO has established global guidelines for the safe use of wastewater, excreta and greywater, with a focus on the protection of public health. These guidelines are critical for the safe reuse of treated water in agriculture and other uses.

### Smart Eco Water Compliance:

- Effluent quality: Technical water suitable for irrigation
- Pathogen elimination: 100% disinfection guaranteed
- Safe reuse: Meets higher WHO standards
- Sludge management: Converted into safe fertilizers

### Demanding Markets in Water Recovery

## REGULATIONS IN ASIA-PACIFIC

*China, India and Japan standards:*

Asia-Pacific represents one of the most demanding markets in wastewater recovery systems, especially in water-resistant industries in Japan and India. China has implemented significant projects to improve environmental conditions through better wastewater treatment.

### Smart Eco Water Compliance:

- Advanced Chemical Systems: Superior Physicochemical Technology
- Zero-Liquid Discharge (ZLD): Full reusability
- Contamination control: 95-98% reduction of contaminants
- Energy efficiency: <1 kW/m³ vs. 2-4 kW/m³ traditional

## CHALLENGES IN AFRICA

*Continent-Specific Solutions*

### CHALLENGES IN AFRICA AND RECOMMENDATIONS

*Wastewater Management in Africa:*

Africa faces particular challenges in wastewater management, requiring specific strategies to address the continent's difficulties. The systems must be particularly efficient and low-maintenance.

### Smart Eco Water advantages for Africa:

- Simplified operation: One person can operate the system
- Low energy consumption: Crucial for regions with limited resources
- Extreme compactness: 90% less space than traditional plants
- Odor-free: Improves community quality of life
- Minimal maintenance: Ideal for areas with limited technical staff

## SDG COMPLIANCE

*Contribution to Sustainable Development Goals*

### COMPLIANCE WITH SUSTAINABLE DEVELOPMENT GOALS (SDGS)

*Accelerating SDG 6:*

The overarching goal is to accelerate the achievement of SDG 6 by increasing the availability of high-quality data for wastewater treatment. Smart Eco Water contributes directly to multiple SDGs:

- SDG 6: Clean water and sanitation - 100% disinfection
- SDG 7: Affordable energy - 60% lower consumption than conventional technologies
- SDG 9: Innovation and Infrastructure - Unique global patented technology
- SDG 11: Sustainable cities - No odours, extreme compactness
- SDG 12: Responsible Production - Complete Circular Economy

## COMPLIANCE BENCHMARKING

*Superiority in All Parameters*



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## REGULATORY COMPLIANCE BENCHMARKING

Regulatory Aspect	International Standard	Smart Eco Water	Compliance
COD reduction	85-90%	95-98%	<input checked="" type="checkbox"/> Exceeds
BOD Reduction	85-90%	95-98%	<input checked="" type="checkbox"/> Exceeds
Phosphorus Removal	80-90%	100%	<input checked="" type="checkbox"/> Exceeds
Phosphorus Removal	99%	100%	<input checked="" type="checkbox"/> Exceeds
Heavy metals	Specific limits	100% elimination	<input checked="" type="checkbox"/> Exceeds
Sludge Management	Safe Treatment	Useful fertilizers	<input checked="" type="checkbox"/> Exceeds

## CERTIFICATIONS AND APPROVALS

Complete Regulatory Compliance

**Smart Eco Water complies with multiple international standards:**

- SanPin 2.1.5980-00: Hygienic requirements for surface water protection
- EU Regulations: Wastewater Treatment and Reuse
- ISO 14001: Environmental Management
- CE Certified: Electrical and Operational Safety
- WHO Guidelines: Safe Use of Wastewater

## FINAL CONCLUSION REGULATORY COMPLIANCE

Global Leadership in Regulatory Compliance

## CONCLUSION

Smart Eco Water's purification systems not only comply with all current international regulations, but significantly exceed them in all key parameters.

*Patented vortex wave technology combined with advanced physicochemical processes offers:*

1. Superior regulatory compliance on all continents
2. Revolutionary energy efficiency that exceeds global standards
3. Comprehensive sustainability that contributes to multiple SDGs
4. Universal adaptability to different regional regulatory frameworks
5. Unique technological innovation that sets new industry standards

This technology positions Smart Eco Water as the most advanced and complete solution available globally, capable of meeting the most demanding regulations while generating additional economic and environmental value.

## 11. LOS-400 TECHNICAL INFORMATION

### Technical Specifications:

Parameter	Value
Productivity	17 m <sup>3</sup> /hour maximum
Inlet pressure	0.3-1.2 MPa
Hydraulic resistance	<0.05 MPa
Voltage	380V
Frequency	50 Hz
Installed power	25 kW maximum
Operating current	50-85 A
Longitude	12.5 m
Wide	2.5 m
Total Weight	3.5 tons

### Composition of the System:

1. Reactor with cooling system
2. Support frame
3. Cabinet protection and control
4. Special power transformer



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5. Settler
6. Pressure-free sediment filter
7. Reagent dosing station
8. Coagulant preparation unit
9. Dispenser
10. Hoppers for sludge and reagents

#### **Physical Factors of Efficiency:**

- Magnetization of ferromagnetic needles
- Rotation and cavitation
- Collisions:  $10^3$ - $10^4$  per second/needle
- Magnetostriction:  $150$  tN/mm $^2$
- Continuous microelectrolysis

#### **Warranty & Service:**

- \*Warranty period: 36 months
- Guaranteed service life: 5 years minimum
- Post-warranty service: Contractual
- Service locations: Spain, Bulgaria, Turkey, Russia

## **12. CONCLUSIONS AND RECOMMENDATIONS**

#### **Unique World Technology:**

Smart Eco Water Group has developed a technology without analogues that completely solves the problem of wastewater treatment with:

- Certified superior efficiency
- Proven operating economics
- Guaranteed environmental sustainability
- Flexibility and modularity

#### ***Implementation Recommendations:***

1. For Municipalities:
  - Medium and small plants
  - Coastal and tourist cities
  - Space-constrained areas
2. For Industries
  - Replacement of obsolete biological systems
  - Guaranteed regulatory compliance
  - Recovery of water and raw materials
3. For the agricultural sector:
  - Conversion of waste into fertilizers
  - Treated water for irrigation
  - Syngas production

#### **Final Benefits:**

- Transformation of problem into opportunity
- From waste to valuable resource
- Environmental protection and public health
- Proven economic profitability

#### **Products Obtained:**

1. Reusable technical water
2. Organo-mineral fertilizers
3. Syngas for energy
4. Industrial raw materials



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Smart Eco Water Group's purification system represents a revolution in wastewater treatment, offering:

- ✓ Superior technology with certified results
- ✓ Operating economics with accelerated return on investment
- ✓ Environmental sustainability with zero secondary waste
- ✓ Adaptable operational flexibility at any scale
- ✓ Regulatory compliance exceeding international standards

*This technology makes it possible to transform an environmental problem into an economic opportunity, turning waste into valuable resources while protecting the environment and public health.*

## CONTACT AND NEXT STEP

Smart Eco Water Group, S.L.

***"Transforming wastewater treatment into a sustainable business opportunity"***

### Our technology allows:

- Process where 1 hectare was previously needed in just 100 m<sup>2</sup>
- Obtain technical water and raw materials making the investment profitable
- Modular containerized installation with full mobility
- Automated operation with minimal staff

**Join the wastewater treatment revolution!**

## Technical Commercial Department

**Smart Eco Water Group, S.L.**