



SPG

Water Project Development Group

# Who We Are?

- + SPG is a water project development company located in Istanbul, Turkey.
- + SPG's main scope of work is environmental projects especially water based projects.
- + Halim Anisoglu, founder of SPG, has an experience of more than 30 years in water management sector, he was the region manager of global water giants.
- + Our Models
  - BOT
  - O&M
  - Design- Build Operate



# What we operate?

- + We operate a Reverse Osmosis plant in Famagusta, Turkish Republic of Northern Cyprus, with a capacity of 7.000 m<sup>3</sup>/day.
- + We operate a water in-take system in with the capacity of 21.000 m<sup>3</sup>/day.
- + We operate a water truck distribution network in Famagusta.
- + We operate a part of a water network managment system in Famagusta.
- + We won the concession tender of Nicosia Water Authority and formed a joined venture with Nicosia Municipality called Baskent Water Management.
- + We consult municipalities, construction companies and global water management companies in the middle east region.

# What we do?

- + Manage water networks
  - + Telemetric Smart Meters
    - RF
    - GSM
    - F/O
  - + CRM
    - Call Center
- + SCADA operations
- + Hydraulic Models
- + Supply Optimization
- + Revenue Collection
- + Facility Management
- + Cost Optimization
- + HR & Cooperate Education
- + Flood Prevention



# What we do?

## + Builds and operates WTP

### ❑ Filtration Systems

- Sand Filters
- Active Carbon Filters

### ❑ Reverse Osmosis

- Sea Water
- Brackish Water

### ❑ Nanofiltration

### ❑ UltraFiltration

### ❑ Mikrofiltration



## + Build and operates WWTP

### ❑ Industrial Waste Water Treatment Plants

- Aerobic Biological Process
- Anaerobic Biological Process
- Chemical Process
- Sludge Treatment
  - Sludge Dewatering
  - Sludge Digestion





# What we do?

- + Builds and operates WWTP
  - ❑ Domestic Waste Water Treatment Plants
  - ❑ Water Reuse
    - Textile Industry
    - Steel Industry



# What we do?

## Drinking Water

- + Resource management
- + Water treatment plant&pumping
- + Laboratory and water quality control
- + Transport network management
- + Distribution network operation management
- + Electromechanical maintenance
- + Operational maintenance&site works
- + Water network mapping

## Waste Water

- + Sewer diagnosis
- + Sewer cleaning
- + WWTP management
- + Pumping station
- + Sewage network management
- + Sludge treatment & recovery
- + Laboratory & discharge control
- + Electromechanical maintenance
- + Connections & site works
- + Sewer network mapping

# What we do?

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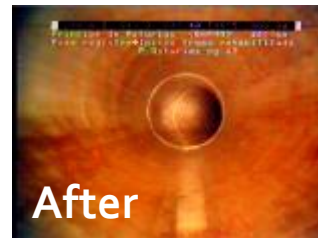


# Our Innovative Technologies

- + Leak Detection Techniques
- + Ice Pigging Techniques (Agbar – Spain)
- + Pipe Renovation
- + Network
- + Reconditioning



Before



After

# SPG in figures

- + 25 years of experience in water sector
- + 5 worldwide offices
  - Istanbul Headquarter
  - Istanbul Technical Offices
  - Famagusta (Cyprus)
  - Zurich
  - Ulan Bataar (Mongolia)
- + 12 Million \$ turnover/year
- + 10 million \$ fixed asset (facilities)
- + 20 key staff

# References

## Atatürk Industrial Wastewater Treatment Plant - 1991

- ❑ 20.000 m<sup>3</sup>/d (First Industrial Zone IWWTP in Turkey)
- ❑ Krüger Turkey (Process and Engineering as GM)
- ❑ Equipment Manufacturing company (H&B as owner)



# References

## İzmir Menemen Leather Industrailists' IWWTP – 1994

- ❑ 9.000 m<sup>3</sup>/day – (Extended Capacity 18.000 m<sup>3</sup>/day)
- ❑ 6.000 mg/l<sup>t</sup> COD – 250.000 PE
- ❑ Krüger Turkey (Sales-Process engineering - General Manager)





# References

## İzmir Wastewater Treatment Plant – 1997

- ❑ 605.000 m<sup>3</sup>/day
- ❑ 4.000.000 PE
- ❑ TEKSER Construction company
  - Tender Management
  - Process
  - Engineering
  - Contract Negotiations
  - JV Management
  - Supply and Erection
  - Technical Coordination



# References

## Çeşme – Alaçatı Water Union (Alçesu) – 2003

- ❑ Contract Duration 10 years
- ❑ Veolia Water Country Manager
  - Contract Management
  - Tender Management
  - Relations with the Municipality
  - Relations with the World Bank
  - Technical Support
- ❑ First that has Privilege Contract in Turkey.





# References

## Güllük-Bodrum Concession Project

- ❑ Bidding was in 2005
- ❑ Works Commenced in 2006
- ❑ 35 km pipe line/distribution
- ❑ 30 M€ project value



# References

## ISKI (Istanbul Water & Sewege Authority)

- ❑ European Side Collector Tunnel Rehabilitation
- ❑ Duration = 3 years
- ❑ Contract Size = 10.400.000 YTL



# References

## Çorlu Concession Project

- + Total Revenues: 1,4 Bilion €/35 years
- + Concept design and bidding coordination
- + New Water Source Determination
  - Production Strategy
  - Environmental Solutions
  - Contract Jurisdiction
  - Technological Solutions
- + CAPEX : 150 million € /35 years
  - First Inv.Program : 56 M€/5 years





# Municipality Services

Polatli (Ankara) Municipality  
CAPACITY = 28.800 m<sup>3</sup>/day



# Municipality Services

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CAPACITY = 28.800 m<sup>3</sup>/day



# Municipality Services

## Bartın Municipality

CAPACITY = 32.840 m<sup>3</sup>/day

- + Bartın Municipality Drinking Water Treatment Plant Construction Project
  - Three big Treatment Systems have been built to meet the drinking water requirements of Bartın Municipality.
  - Turbo Major treatment System
  - Capacity is 720 m<sup>3</sup>/hour
- + Near Spike (Karakoy) Treatment System
  - Capacity is 324 m<sup>3</sup>/hour
- + Orduyeri Treatment System
  - Capacity is 324 m<sup>3</sup>/hour



# Municipality Services

## Bartın Municipality

CAPACITY = 32.840 m<sup>3</sup>/day



# Municipality Services

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CAPACITY = 32.840 m<sup>3</sup>/day



# Municipality Services

## Erbaa (Tokat) Municipality

CAPACITY = 15.000 m<sup>3</sup>/day

- + Erbaa (Tokat) Municipality Wastewater Treatment Plant Construction Project
- + This project has been financed by Eurapian Union and Turkish Republic Government regarding to 2nd level areas of Regional Development Programme.
- + This system is a biological treatment system which is removing nitrogen and phosphorus by nitrification-denitrification and also chemical phosphorus sedimentation process.
- + Capacity is 15.000 m<sup>3</sup>/day

# Municipality Services

## Erbaa (Tokat) Municipality

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# Municipality Services

## Erbaa (Tokat) Municipality

CAPACITY = 15.000 m<sup>3</sup>/day



# Municipality Services

## Bolu Municipality

CAPACITY = 29.000 m<sup>3</sup>/day

- + Bolu Municipality Waste Water Treatment Plant and collector line construction project is started.
- + This project has been financed by the signed credit agreement between Islamic Development Bank (IDB) and the Turkish Republic Government.
- + Urban Wastewater Advanced Biological Treatment System.
- + Capacity = 29.000 m<sup>3</sup>/day



# Municipality Services

## Bolu Municipality

CAPACITY = 29.000 m<sup>3</sup>/day



# Municipality Services

## İZMİR Municipality

CAPACITY = 138.240 m<sup>3</sup>/day

- + İzmir Municipality Arsenic Removal Treatment Plant Construction Project
- + Two big treatment systems have been built to meet water requirements of İzmir Municipality.
  - Menemen Arsenic Removal Treatment System
  - Capacity is 51.840 m<sup>3</sup>/day
  - Halkapınar Arsenic Removal Treatment System
  - Capacity is 86.400 m<sup>3</sup>/day
- + TOTAL CAPACITY = 138.240 M<sup>3</sup>/Day

# Municipality Services

## İZMİR Municipality

CAPACITY = 138.240 m<sup>3</sup>/day





# Municipality Services

## İZMİR Municipality

CAPACITY = 138.240 m<sup>3</sup>/day



# Municipality Services

## TURKMENİSTAN /BEREKET Municipality

CAPACITY = 20.000 m<sup>3</sup>/day

- + Bereket Municipality Water Treatment Plant
- + Ultrafiltration + Reverse Osmosis Technology



# Industrial Services

## Konya Cumra Sugar Factory

CAPACITY = 4.800 m<sup>3</sup>/day

- + Konya Cumra Sugar Factory Process Steam Boiler Feeding Water Preparing System
- + Pre-treatment Reverse Osmosis System and softening tanks built to meet the qualification of feed steam boilers requirement of Konya (Cumra) sugar factory.





# References

## Water Treatment Units



### IRAQ SETTLEMENTS

Drinking and Usage Water Preparation System  
Reverse Osmosis System with Pre-filtration Group  
50-200 m<sup>3</sup>/hour, 54 pieces

# References

## Water Treatment Units



EAST MEDITERRANIAN UNIVERSITY AND MAGOSA MUNICIPALITY  
Sea Water Treatment System for Drinking and Usage Water Production  
Reverse Osmosis System with Prefiltration Group  
1.000 m<sup>3</sup>/day

# References

## Water Treatment Units



TURKEY SUGAR FACTORIES  
Steam Boilers Feeding & Drinking and Usage Water Production  
Reverse Osmosis System with Prefiltration Group  
30 m<sup>3</sup>/hour

# References

## Water Treatment Units



MODERN ENERGY ELECTRIC PRODUCTION AND OTOPRODUCTION GROUP  
Steam Boilers Feeding Water and Condense Recycle Water Treatment System  
Prefiltration Group, Dublex Mixbed System, Multilayer Filtration System  
60 m<sup>3</sup>/hour



# References

## Water Treatment Units



TEKEL WHISKY FACTORY (BEVERAGE)  
Process Water Preparation System  
Demineralization System  
5 m<sup>3</sup>/hour

# References

## Water Treatment Units



TÜP MERSEK DYE AND APRE INDUSTRY (TEXTILE)  
Dyehouse Water Treatment System  
Special Demineralization System  
250 m<sup>3</sup>/hour

# References

## Water Treatment Units



BIRLIK ENERGY ELECTRIC PRODUCTION OTOPRODUCTOR GROUP  
Boiler Feeding and Cooling Water Preparation System  
Reverse Osmosis System with Prefiltration Group  
33 m<sup>3</sup>/hour



# References

## Water Treatment Units



OTOKAR AUTOMOBILE INDUSTRY  
Process Water Preparation System  
Recycle Demineralization System  
5 m<sup>3</sup>/day



# References

## Water Treatment Units



SERDARTOMATO SAUCE FACTORY  
Industrial Wastewater Treatment System  
Biological Treatment System  
 $3.600 \text{ m}^3/\text{day}$

# References

## Water Treatment Units



MED UNION CONTAINERS (METAL)  
Domestical and Industrial Wastewater Treatment System  
6 m<sup>3</sup>/day

# References

## Water Treatment Units

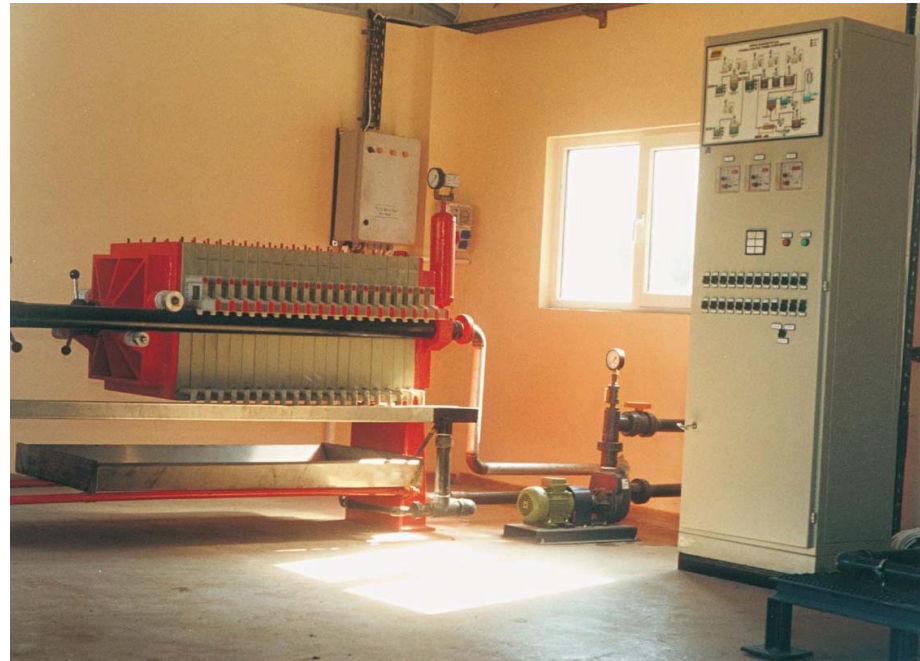


ABANT PALACE HOTEL  
Domestical Wastewater Treatment System  
Biological Treatment System  
300 m<sup>3</sup>/day



# References

## Water Treatment Units



HEMA INDUSTRY (METAL)  
Industrial Wastewater Treatment System  
Chemical Treatment System  
 $4 \text{ m}^3/\text{hour}$



# References

## Water Treatment Units



PASABAHCE GLASS FACTORY  
Industrial Wastewater Treatment System  
Chemical Treatment System  
16 m<sup>3</sup>/hour

# References

## Water Treatment Units



BARMEK GAMA COMPANY  
(DOMESTICAL WASTEWATER)  
BIOTREATMENT-P STEEL PACKAGE SYSTEM  
120 m<sup>3</sup>/day



MED UNION CONTAINERS  
(DOMESTICAL WASTEWATER)  
BIOTREATMENT-P STEEL PACKAGE SYSTEM  
300 m<sup>3</sup>/day

# Water Storage Tank

Van Municipality  
CAPACITY = 500 m<sup>3</sup>





# Water Storage Tank

Saudi Arabia / Saudi Aramco  
CAPACITY = 1000 m<sup>3</sup>





# Water Storage Tank

Ankara

CAPACITY = 2000 m<sup>3</sup>



# Water Storage Tank

Umman

CAPACITY = 1000 m<sup>3</sup>



Famagusta Su İşletme Ltd.



SPG



FAMAGUSTA SU İŞLETME

SEAWATER DESALINATION REVERSE OSMOSIS  
COMPANY



Famagusta Su İşletme Ltd.



## SEAWATER DESALINATION REVERSE OSMOSIS COMPANY



SPG





# Company Profile

- + FSI is a SeaWater Desalination (RO) Company supplying water to Turkish Republic of Northern Cyprus.
- + The total capacity is 8000 m<sup>3</sup>/day
- + Established in 2009 based on BOT model for 40 years of operation.
- + Design, Engineering, Supply, Erection, Commissioning is done by SPG GROUP companies.
- + Still in operation 24/7 under FSI by SPG GROUP companies.

# FSI Facility in Cyprus



Famagusta Su İşletme Ltd.



SPG