Innovative Technology Solutions for Sustainability



ABENGOA

Water: Large Growth Global Opportunities











Completing
Transformation
9th Annual Analyst and Investor Day

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The water market



2 Abengoa's value propositions



Main Takeways



1

The Water Market

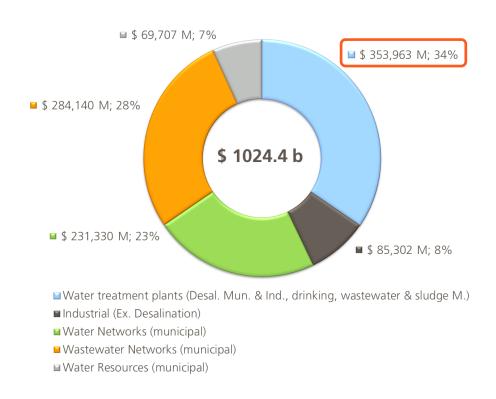
The water market (2015-2018)

Cumulative global water market (2015-2018)

\$ 157,990 M; 6% \$ 2,548.6 b \$ 1,366,222 M; 54% \$ 85,302 M; 3%

■ Municipal capex
■ Industrial capex
■ Municipal opex
■ Industrial opex

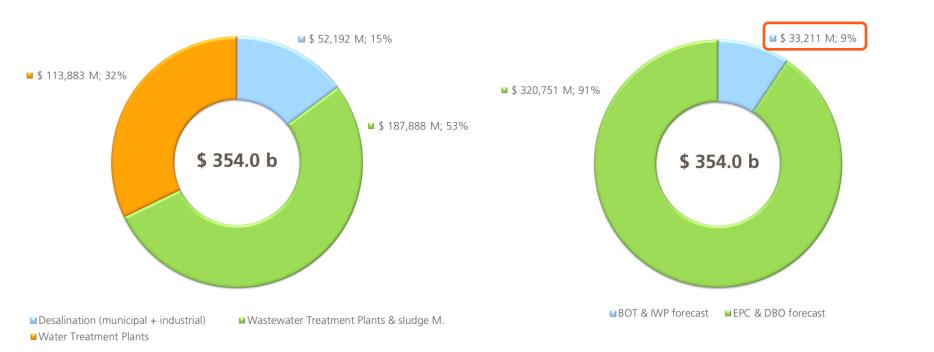
Cumulative CAPEX water market (2015-2018)



The water market (2015-2018)

Cumulative water treatment facilities
CAPEX market
(2015-2018)

Cumulative water treatment facilities
CAPEX market
(2015-2018)



Global water challenges

Increasing water scarcity problems

- Increasing water demand
- Uneven population distribution
- Climate change
- Rapidly growing cities



Increasing water quality problems

- The use of pesticides, fertilizers and chemicals in agriculture
- Over exploitation of underground water
- Emerging pollutants



2

Abengoa's value propositions

Abengoa in the water market

Abengoa in the water market is a technology-driven, global water company that provides integral solutions for municipal and industrial clients.

- Abengoa develops **integral solutions** through combining its capacity for project finance, design, build and operation & maintenance.
- Abengoa offers turnkey projects leveraging its know-how, experience, and technology
- Abengoa provides services of operation & maintenance for municipal & industrial clients

R & D Development Finance Design Procurement Construction O & M Technical Consulting













Abengoa's Value Propositions

Abengoa's markets



Municipal water



Desalination



Water treatment



Wastewater treatment



Reuse



Industrial water



Power



Refining



Mining



Oil & gas

Abengoa's Value Propositions

Abengoa's solutions

Desalination

Municipal water

Water treatment

Wastewater treatment

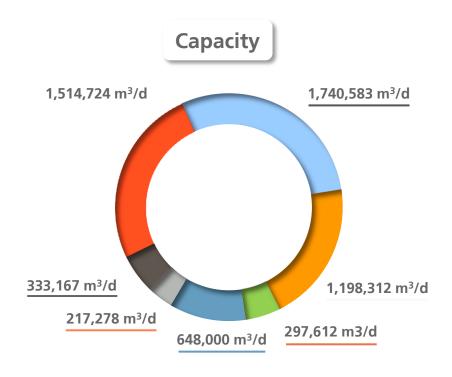
Water reuse

Others municipal (disinfection...)



Process water

Wastewater treatment



Total: 4,947,040 m³/d

BOT/PPP model

Technology & innovation

Abengoa's Value Propositions

Desalination

Intake

Source Open intake

water

• Subsurfac e intakes

Pretreatment

- Conventional (GSF, PSF, DAF, etc.)
- Membrane filtration (MF-UF)

Pretreatment

- Cartridge filtration
- High-pressure feed pumps
- RO racks
- Energy recogery systems

Post-treatment

- Chemical addition
- Dissolving minerals
- Mixing with source water

Drinking water



Abengoa's water infrastructures control room

Brine management

- Direct discharge
- Zero liquid discharge (BW)

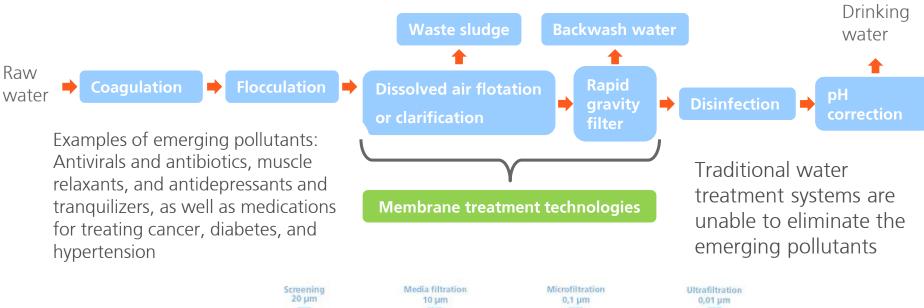


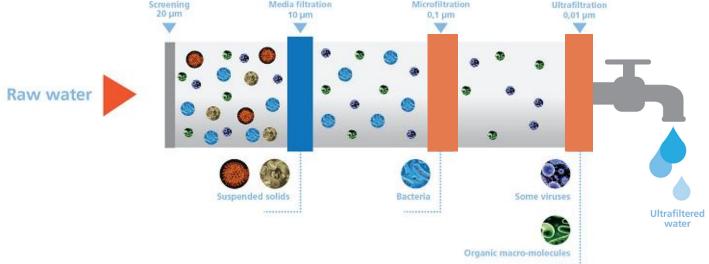
UF membrane racks in Qindao desalination plant



Ghana desalination plant

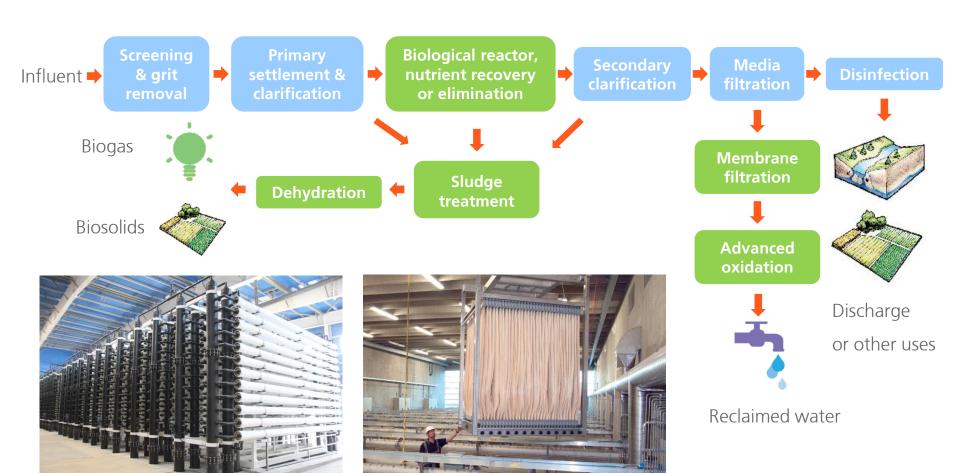
Water treatment for drinking water





Abengoa's Value Propositions

Wastewater treatment & reuse



Qinghe tertiary treatment plant

Worker installing hollow fiber membranes in MBR

Abengoa's Value Propositions

R&D+i programs

Abengoa Water develops its own R&D+i plan which is based on 3 main programs:



Desalination

To produce alternative water resources at a competitive price



Membranes

To develop solutions and proprietary technology for advanced filtration



Water treatment & reuse

To develop solutions for wastewater treatment allowing its reuse



Pilot plant for study of selective precipitation



Multimembrane demonstration plant

3

Main Takeaways

- Abengoa offers integral solutions for <u>both municipal and industrial</u> clients providing technology and high value services
- In Abengoa we believe in R&D+i as a key element to differentiate ourselves and remain competitive
- We also believe that the <u>BOT/PPP</u> model offers an alternative to traditional EPC model for solving water challenges
- Abengoa will keep on working to solve water scarcity and water quality problems, contributing to the development of local communities in which it operates, with a <u>pipeline of more than \$ 3.1 billion in BOT/PPP projects and \$ 16.6 billion in EPC projects</u>







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Thank you