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# Transaction PPP Model Suliman Alkhliwi

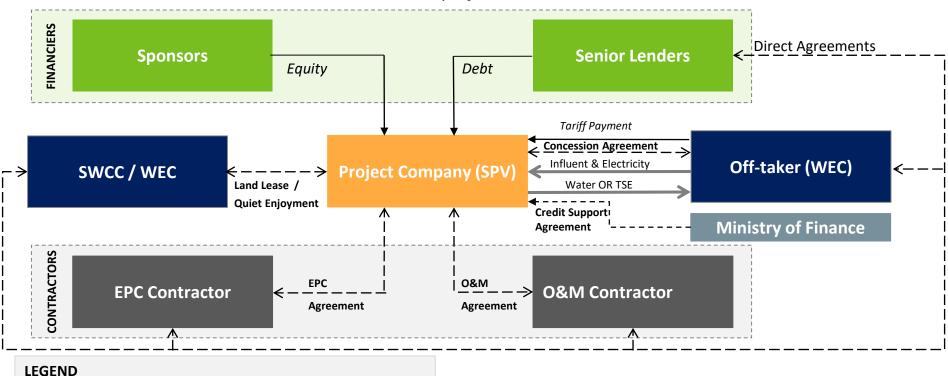
### **WEC Off-Take Model**



WEC follows a standard off-take model for its PPP projects:

*Payment* <---> Contract

Service



# Risk Allocation Framework for WEC PPPs

| Aspects              | Risk                                    | WEC | Project Company |
|----------------------|---|-----|-----------------|
| Construction Related | Design                                  | -   | ✓               |
|                      | Planning and other approvals            | -   | ✓               |
|                      | Commissioning                           | -   | ✓               |
|                      | Construction                            | -   | ✓               |
|                      | Timely completion and delivery of asset | -   | ✓               |
|                      | Availability and reliability of plant   | -   | ✓               |
|                      | Operations & maintenance                | -   | ✓               |
| Operation Related    | Availability of Utilities               | ✓   | -               |
|                      | Water/TSE quality and discharge point   | -   | ✓               |
|                      | Sludge quality and disposal             | -   | ✓               |
|                      | Permits and licenses                    | -   | ✓               |
| Market (Demand)      | Input seawater/wastewater quality       | ✓   | -               |
| Related              | Potable Water/TSE off-take              | ✓   | -               |
| Macroeconomic        | Inflation risk                          | ✓   | -               |
| Related              | Foreign exchange risk                   | ✓   | -               |
| Termination Related  | Change in law                           | ✓   | -               |
|                      | Political force majeure ("PFM")         | ✓   | -               |
|                      | Natural force majeure* ("NFM")          | -   | -               |

<sup>\*</sup>Time relief available to Project Company; Insurance Coverage available for NFM events



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# Recently Signed Project Agreements

## **Recently Signed IWP Projects**



#### **RABIGH 3 IWP**

- Capacity: 600,000 m3/day
- Operating Capacity: At least 98%
- Financial Close: March 2019
- PCOD: December 31st, 2021
- Lead Developer: ACWA
- Signing Date: 25 December 2018

#### **BID PRICE (SAR/M3)**

ACWA: 1.992Marubeni:2.021Veolia: 2.117Valoriza: 2.288Aqualia: 2.616

#### SHUQAIQ 3 IWP

- Capacity: 450,000 m3/day
- Operating Capacity: At least 96%
- Financial Close: April 2019
- PCOD: September 30th, 2021
- Lead Developer: Marubeni
- Signing Date: 29 January 2019

#### BID PRICE (SAR/M3)

- Marubeni:1.952
- ACWA: 1.963
- Engie: 1.967
- Veolia: 1.968
- Aqualia: 2.019
- Cobra: 2.070















## **Recently Signed ISTP Projects**



#### **DAMMAM ISTP**

Capacity: 350,000 m3/d

• Availability: 100%

Financial Close: April 2019PCOD: February 24th, 2022

Lead Developer: Metito

Signing Date: 21 January 2019

#### BID PRICE (SAR/M3)

Metitio: 1.268

Suez: 1.478

Acciona: 1.540

• Mitsui: 1.703

Veolia: 1.903

Aqualia: 2.140

Saur: 2.620

#### **JEDDAH 2 ISTP**

Capacity: 500,000 m3/d

Availability: 100%

Financial Close: May 2019

PCOD: December 31<sup>st</sup>, 2021

Lead Developer: Marafig

Signing Date: 25 February 2019

#### BID PRICE (SAR/M3)

Maraiq: 0.89

Mitsui: 0.91

Aqualia: 1.01

Acciona: 1.09

Suez: 1.25

Cobra: 1.39























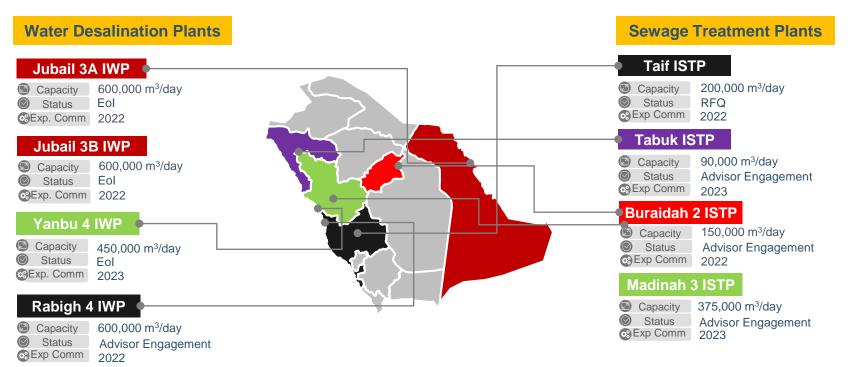
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## **Projects Activity in 2019**











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# IWP Projects Planned to be Tendered in 2020









Al Hassa

Location

**Eastern Province** 

**Technology** 

**Reverse Osmosis** 

Capacity

300,000 m<sup>3</sup>/d

COD







Ras Al Khair 2

Location

**Eastern Province** 

**Technology** 

**Reverse Osmosis** 

Capacity

600,000 m<sup>3</sup>/d

COD







Ras Al Khair 3

Location

**Eastern Province** 

Technology

**Reverse Osmosis** 

Capacity

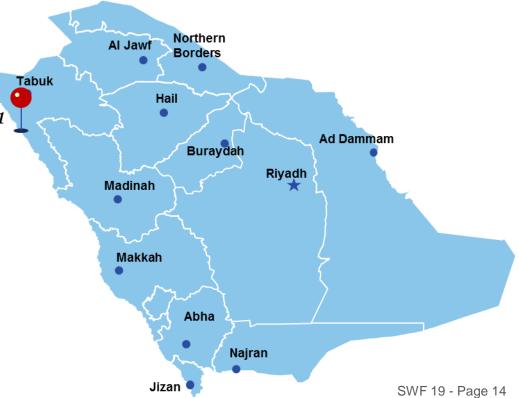
400,000 m<sup>3</sup>/d

COD



















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# ISTP Projects Planned to be Tendered in 2020



#### **Project**

**Khamis Mushait 2** 

#### Location

Khamis Mushait, Abha

#### Type

**Sewage Treatment Plant** 

#### Capacity

25,000 m<sup>3</sup>/d expanding to 50,000 m<sup>3</sup>/d

**COD** (Initial Sewage Flow)





#### **Project**

Al Haer 2

#### Location

Riyadh

#### Type

**Sewage Treatment Plant** 

#### Capacity

100,000 m<sup>3</sup>/d expanding to 200,000 m<sup>3</sup>/d

#### **COD** (Initial Sewage Flow)







Riyadh M STP

Location

**East Riyadh** 

#### Type

**Sewage Treatment Plant** 

#### Capacity

50,000 m<sup>3</sup>/d expanding to 100,000 m<sup>3</sup>/d

**COD** (Initial Sewage Flow)





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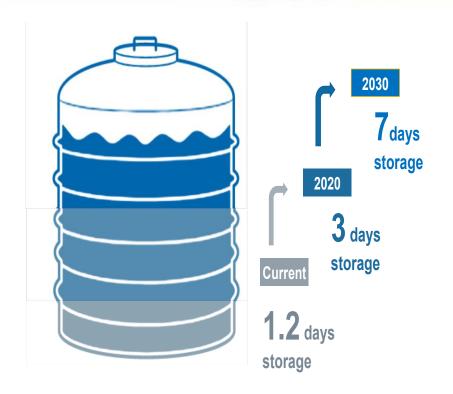
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# ISR Projects Planned to be Tendered in 2020

#### Strategic Reservoir (ISR) Projects

| Location                | Capacity required by 2022<br>(M m3/d) |
|-------------------------|---------------------------------------|
| Makkah                  | 13                                    |
| Madinah                 | 2.2                                   |
| Eastern Province Cities | 3.6                                   |
| Riyadh                  | 2.7                                   |
| Najran                  | 0.7                                   |
| Hail                    | 0.67                                  |
| Asir                    | 0.16                                  |
| Qassim Cities           | 1.6                                   |
| Tabuk                   | 1                                     |
| Jazan Cities            | 1.8                                   |
| Al-Baha                 | 0.3                                   |
| Al- jouf                | 0.6                                   |
| Northern borders        | 0.27                                  |







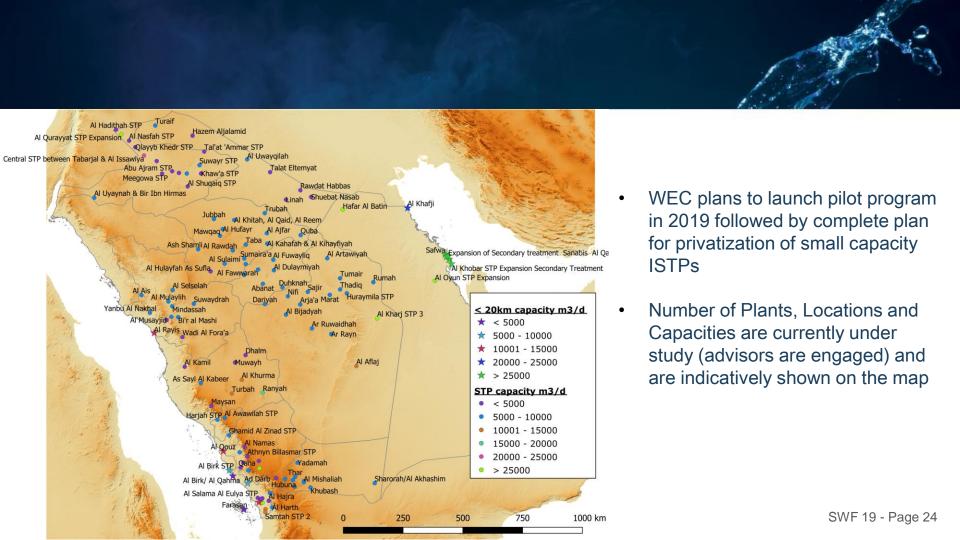




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# Small ISTPs – Potential Bundling





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### **WEC Procurement Process**



WEC procurement process based on years of successful numerous procurements, is based on the following key principles:

#### **Competitiveness** Value to KSA **Timeliness Transparency** Risk Maximize Ensure timeliness in Minimize risks Optimize evaluation Ensure across technical. order to meet inherent in PPP competitiveness professionalism, (No. of bidders) commercial and transparency and targets set out in projects while ensuring Local Content fairness through the Vision 2030 development certain level of parameters to process competencies are maximize value to met the Kingdom

### **WEC Procurement Process**



WEC procurement process is regarded by our advisors as better or equal to international best practice.

| White & Case  | Alderbrook-BSF  | ILF   | Fichtner  |
|---|---|---|---|
| The approach adopted for the procurement has been in line with international best practice. | WEC process is equal to or better than international best practice. | ILF believe that WEC processes are fair and aligned to the best practice of current international | WEC process is equal to or better than international best practice. |
|   |   | market  |   |

| Mizuho  | DLA Piper   | SMBC   |
|---|---|--|
| Advisors view that WEC process complies with international best practice. | WEC process is equal to or better than international best practice. | Processes being followed by WEC are standard in the region and are fully recognized as following international best practice |







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# WEC achievements in Recent Projects

# Achievements of WEC in recent Projects

#### **Competitive Procurement**

#### **Eol Responses:**

Rabigh 3 IWP : 55 Companies
 Shuqaiq 3 IWP : 51 Companies
 Dammam ISTP : 64 Companies
 Jeddah 2 ISTP : 65 Companies

#### Number of Bids Received:

Rabigh 3 IWP: 5 bids
Shuqaiq 3 IWP: 6 bids
Dammam ISTP: 7 bids

• Jeddah 2 ISTP: 6 bids

#### **Reduced Tariffs**

| SAR/m3 |
|--------|
| 3.38   |
| 3.29   |
| 2.45   |
| 2.44   |
| 1.99   |
| 1.95   |
|        |

| ISTPs                    |   | SAR/m3    |
|--------------------------|---|-----------|
| Sulaibiyah ISTP (Kuwait) | : | 1.76      |
| Wathba 1 ISTP (UAE)      | : | 1.58      |
| Wathba 2 ISTP (UAE)      | : | 1.80      |
| KSA Benchmark            | : | 1.47-1.73 |
| Dammam ISTP              | : | 1.26      |
| Jeddah 2 ISTP            | : | 0.89      |

## Optimized Electricity Consumption

| IWPs                    | kWh/m |
|-------------------------|-------|
| Shuqaiq 2 IWP :         | 6.10  |
| Shuaibah Expansion IWP: | 4.60  |
| Shuaibah 3 Exp 2        | 3.96  |
| Rabigh 3 IWP            | <3.5  |
| Shuqaiq 3 IWP :         | <3.5  |

- WEC encouraged developers to use sludge to energy generation

| ISTPs              | kWh/m3  |
|--------------------|---------|
| KSA recent EPC STP | : 0.795 |
| Dammam ISTP        | : <0.5  |
| Jeddah 2 ISTP      | : <0.5  |

- WEC obligated developers for:
- Zero Sludge (non-beneficial) Plant
- Stringent TSE requirements
- · Advance Odour and Noise Control