



Ministry of Environment Water and Agriculture General Department for Planning and Development of Water Sector



Water Resources Economy

The Importance of Integrated Planning





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KSA Water Sector Overview

TSE Reuse



Production	11.3 Millions m3/day	Entities/Partners Water Agency for Planning and Development
Transmission	8,400 Km & 3,000 Km under construction	Saline Water Conversion Corporation
Strategic Storage	19.8 Millions m3	National Water Company
Distribution	125,000 Km Potable Water & 45,000 Km Wastewater network	Saudi Irrigation Organization
		Water Transmission and Technology Company

1.51 Millions m3/day



Saudi Water Partnership

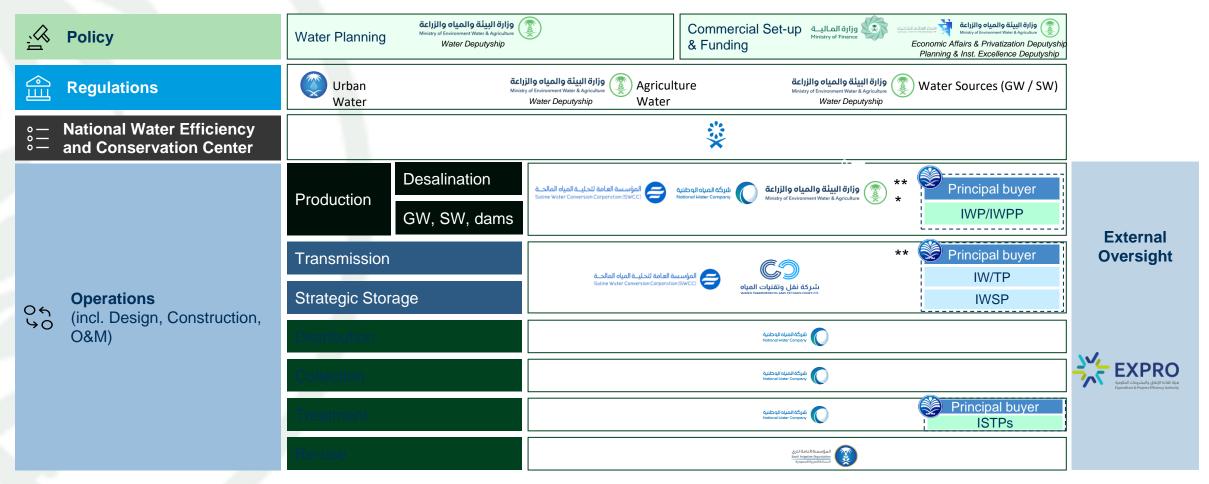
Company



Roles Sharing Between Entities/Partners



Stakeholders Overview:



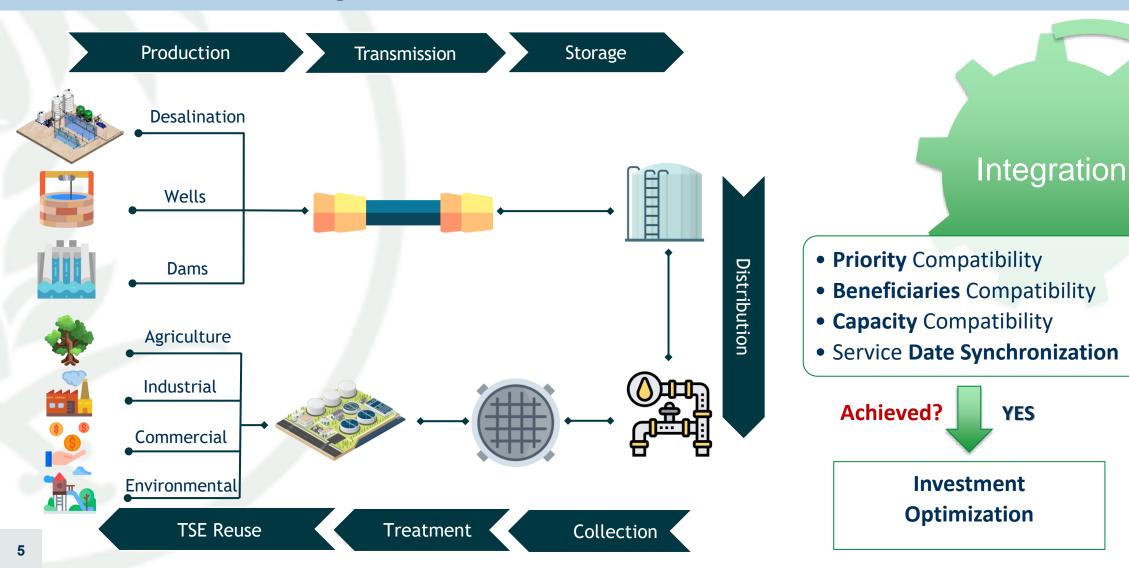
Sharing and integration of roles between entities/partners lead to highest feasibility and integrated management of both physical and human resources.



Integration of Water Supply Chain Projects (1 of 2)



Main Governing Factors





Integration of Water Supply Chain Projects (2 of 2)

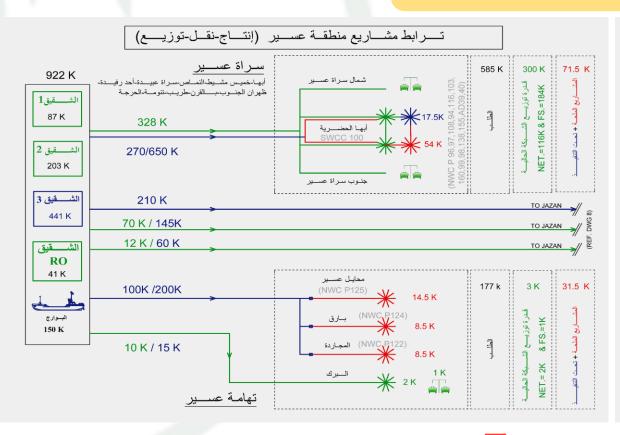


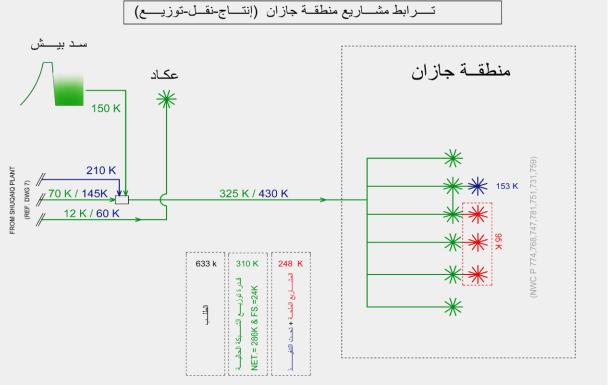
Samples

Assir

Same Water Supply Area (WSA)

Jazan







TSE Reuse Opportunities (1 of 2)



Types of Usage



Agriculture

 With the increasing scarcity of renewable freshwater resources, and growing needs for food production to meet the demand for expanding populations, the intention is being given to reuse wastewater as an important freshwater resource that can be used for irrigation.



 Industrial facilities can use treated wastewater for cooling system make-up water, boiler feedwater, process water, and general washdown uses. It can also be used for road maintenance and concrete production in construction projects. Industrial reuse proposes to depend on the effluent quality and in some cases, it may require additional treatment.



golf courses.

 Can be used for decorative water features (fountains), dust control, district cooling, and fire protection. Irrigation of landscapes, parks, amenity plantations, road verges, and



 Economically, It can play a very important role if it has been sold to the private sector for many purposes; recreational, real estate, etc.

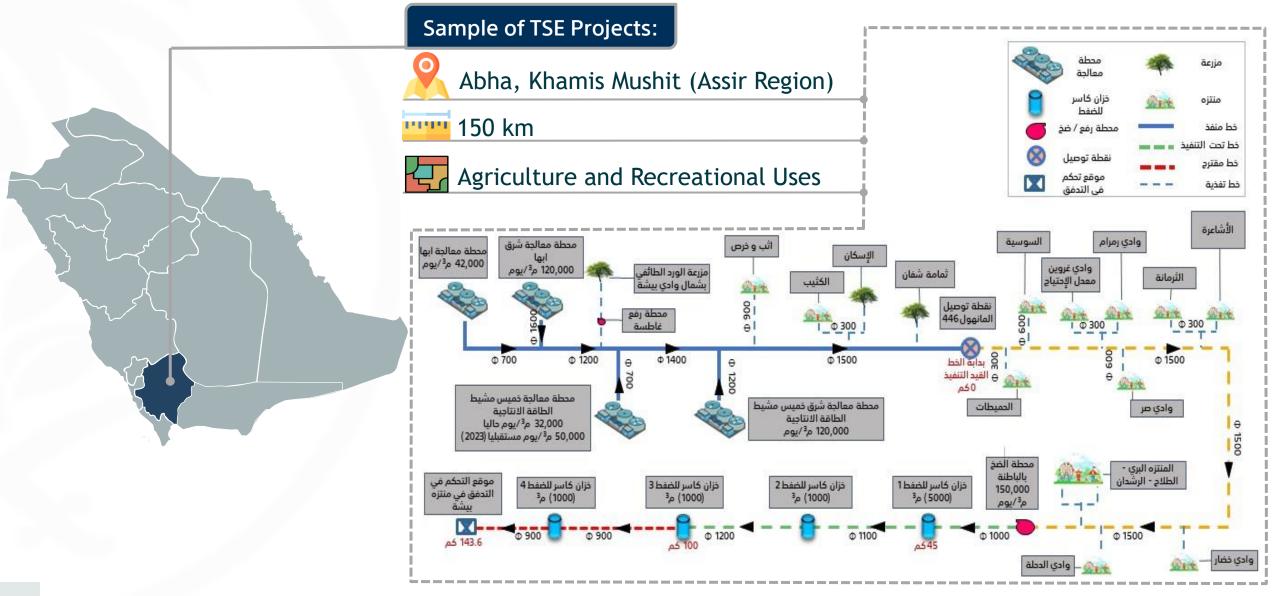
Maximizing TSE reuse through better planning and incentives will help in increasing economic growth and GDP. A good application of economic tools, such as Tariffs and etc, will improve water resources management and sustainability.





TSE Reuse Opportunities (2 of 2)





Thank you