

# PROJECT SUSTAINABILITY SHEET



PROJECT: 0010 Desalinization Plant of Guaymas and Empalme, Sonora

**SECTOR:** Water and Environment

SUBSECTOR: Water Supply STAGE ANALYZED: Execution YEAR OF UPDATE:

2020

**Guide to read this datasheet** 

View

**Project's sustainability summary:** The project has a sensitivity analysis that demonstrates its profitability in the presence of changes in its main variables. The implementation of the project will generate social benefits by increasing the supply of drinking water while generating social awareness of the importance of caring for biodiversity, flora and fauna through the training courses carried out.



# ECONOMIC AND FINANCIAL SUSTAINABILITY

### **EXAMPLE OF GOOD PRACTICES**

The project has a detailed analysis of the risks to which it could be exposed and potential response alternatives to unexpected changes.

Sustainability criteria	NA	T1	T2	Т3
Economic and social returns	!			
Creation of employment opportunities and boost local productivity	!			
Financial sustainability of assets	!			
Detailed risk analysis	!			
Cash flow transparency and creditworthiness	!			
Infrastructure asset maintenance and optimal use			!!	
Sustainability incentives				

# ENVIRONMENTAL SUSTAINABILITY AND CLIMATE RESILIENCE

## **EXAMPLE OF GOOD PRACTICES**

The project will consider training on the importance of caring for biodiversity, flora and fauna so that awareness of its importance can be generated.

Sustainability criteria	NA	T1	T2	Т3
Greenhouse gas emissions				
Climate risks, resilience and disaster risk management	! !			
Impacts on biodiversity and native flora and fauna in the region	! !			
Environmental impact of the Project	! !			
Control and monitoring of pollutants	! !			
Efficient use of resources and recycling strategies	! !			
Efficient use of energy and renewable sources				
Preservation and enhancement of public spaces				

# **SOCIAL SUSTAINABILITY**

## **EXAMPLE OF GOOD PRACTICES**

The project will facilitate access to basic services in its area of influence, through the improvement of water supply for domestic, commercial and industrial uses.

Sustainability criteria		T1	T2 :	T3
Reduction of poverty and access to basic services	1 1			
Integration of communities and other interested parties		- !	- !	
Integration of people with disabilities or special needs		- 1	- !	
Effects of the project in the security of the region and in the health of workers and nearby communities	•		- !	
Compliance with human and labor rights			- !	
Cultural heritage and indigenous people				
Gender inclusion and women's economic empowerment through the project	t i			
Equal distribution of benefits and compensations to communities		- 1	- 1	



# INSTITUTIONAL SUSTAINABILITY

# **EXAMPLE OF GOOD PRACTICES**

The project has desalination technology that allows the implementation of future functionalities to guarantee the continuous efficiency of the process.



Source of this project: Cost Benefit Analysis / Environmental Impact Assessment / Physical and Economic Sustainability Study



# PROJECT SUSTAINABILITY SHEET













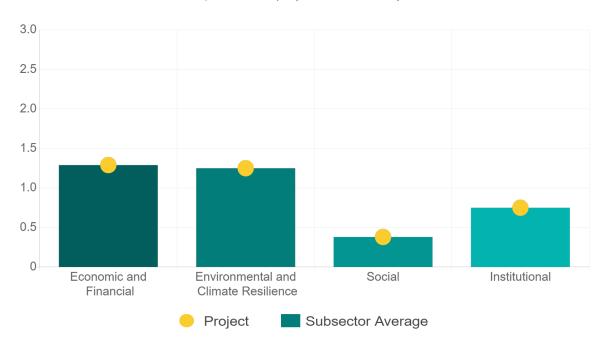
**SECTOR:** Water and Environment

SUBSECTOR: Water Supply STAGE ANALYZED:
Execution

YEAR OF UPDATE: 2020

# Comparison of this project vs other projects of the same subsector

(Number of projects included: 1)





Methodological framework defined by the Inter-American Development Bank (IDB)















# PROJECT SUSTAINABILITY SHEET



PROJECT: 0010 Desalinization Plant of Guaymas and Empalme, Sonora

SECTOR: Water and Environment SUBSECTOR: Water Supply

STAGE ANALYZED: Execution

YEAR OF UPDATE:

2020

This section aims to present the potential alignment of the infrastructure project with the 17 Sustainable Development Goals (SDGs) of the 2030 Agenda. The relevance of this exercise resides in that it provides information to the actors of the infrastructure ecosystem for decision-making in investment that considers and promotes sustainable development.

Reading guide View



1. ALIGNMENT BY SUBSECTOR





# 2. ALIGNMENT BY SDG



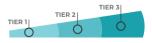
3. ALIGNMENT BY **CRITERIA AND TARGETS** 

View





Explanation of the alignment of the sustainability criteria and the SDGs. View



The tonality of the bars represents the level of detail of the information available from the IDB criteria and its potential alignment for each SDG, based on the scale: N.A., TIER 1, TIER 2 or TIER 3.



Number of times the project information coincides with the alignment of the IDB criteria and the SDGs.



Approximate reference to the number of maximum alignments a project can have between the IDB criteria and the targets of the SDGs.













# PROJECT

DESIGN, CONSTRUCTION, EQUIPMENT, INSTALLATION, OPERATION, MAINTENANCE AND EXPLOITATION OF THE DESALINIZATION PLANT OF THE CITIES OF GUAYMAS AND EMPALME, IN SONORA.

SECTOR: WATER AND ENVIRONMENT SUBSECTOR: WATER SUPPLY

Type of Investment:	Brownfield		Banobras/Fonadin involvement		
Short Name of the Project:	0010 Desalinization Plant of Guaymas and Empalme, Sonora				
Contract Currency: Mexican Pesos MXN	Estimated Investment MXN \$ 1,071,893,000	Estimated Investment USD \$ 52,033,640	Exchange rate (USD/MXN) used by the Ministry of Finance for the economic plan 2023 \$ 20.6		

# **DESCRIPTION**

The project consists in the design, construction, equipment, installation, operation, maintenance and exploitation of the desalinization plant of Guaymas and Empalme, in Sonora, which will have beach water wells, desalinization plant, inverse osmosis ultrafiltration, energy recovery system, post treatment, dosage of CO2, dosage of calcium hydroxide, auxiliary equipment, automatic control system, neutralize effluents system, membranes chemical cleaning system, potable water storage tank, potable water conduction line, pumping water system, water hammer control system, discharge brine line, electricity supply line.

(\*) Project with Banobras and/or National Infrastructure Fund (Fonadin) involvement or support.

Contract Scope: Design, Construction, Equipment, Installation, Operation, Maintenance, Exploitation

Type of Project: Public / Private Selection Process: International Open Tender Term: 20 years

Type of Contract: Federal PPP Payment Source: Mixed

Asset (s):

Desalinisation Plant 200 litres per second (I/s)

# **GEOLOCATION**





# **SPONSOR**



Comisión Nacional del Agua

# Department

Comisión Estatal del Agua de Sonora

E-mail

**Entity** 

desaladora.sonora@ceasonora.gob.mx

# **TIMELINE**







