



**PROJECT:** 0838 Nuevo Pemex Cogeneration Plant (ACT)

**SECTOR:**  
Electricity

**SUBSECTOR:**  
Generation

**STAGE ANALYZED:**  
Operation

**YEAR OF UPDATE:**  
2020

[Guide to read this datasheet](#) 


**Project's sustainability summary:** The project provides a new energy consumption scheme to Petróleos Mexicanos, generating savings in various management areas. Cogeneration makes it possible to take advantage of the waste from power generation with natural gas and through a second production cycle to obtain more energy and minimize losses.



**ECONOMIC AND FINANCIAL SUSTAINABILITY**

**EXAMPLE OF GOOD PRACTICES**  
Cash flows are clear and considers a methodology for forecasting payments in the long term. The purchase of cogeneration energy allows savings in the expenses for electricity consumption.

Sustainability criteria	NA	T1	T2	T3
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**  
Greenhouse gases emissions were reduced by 430 Mton/year compared to the previous system. Considers an emission control and monitoring system, that is audited.


Sustainability criteria	NA	T1	T2	T3
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 or enhancement of public spaces				



**SOCIAL SUSTAINABILITY**

**EXAMPLE OF GOOD PRACTICES**  
The project considers an Integrated Health and Safety System for plant workers, being audited and monitored by Pemex.

Sustainability criteria	NA	T1	T2	T3
Reduction of poverty and access to basic services				
Integration of communities and other interested parties				
Integration of people with disabilities or special needs				
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				
Equal distribution of benefits and compensations to communities				



**INSTITUTIONAL SUSTAINABILITY**

**EXAMPLE OF GOOD PRACTICES**  
It is aligned to national plans to reduce electricity consumption and the use of cogeneration as a more efficient and environmentally system regarding traditional sources.

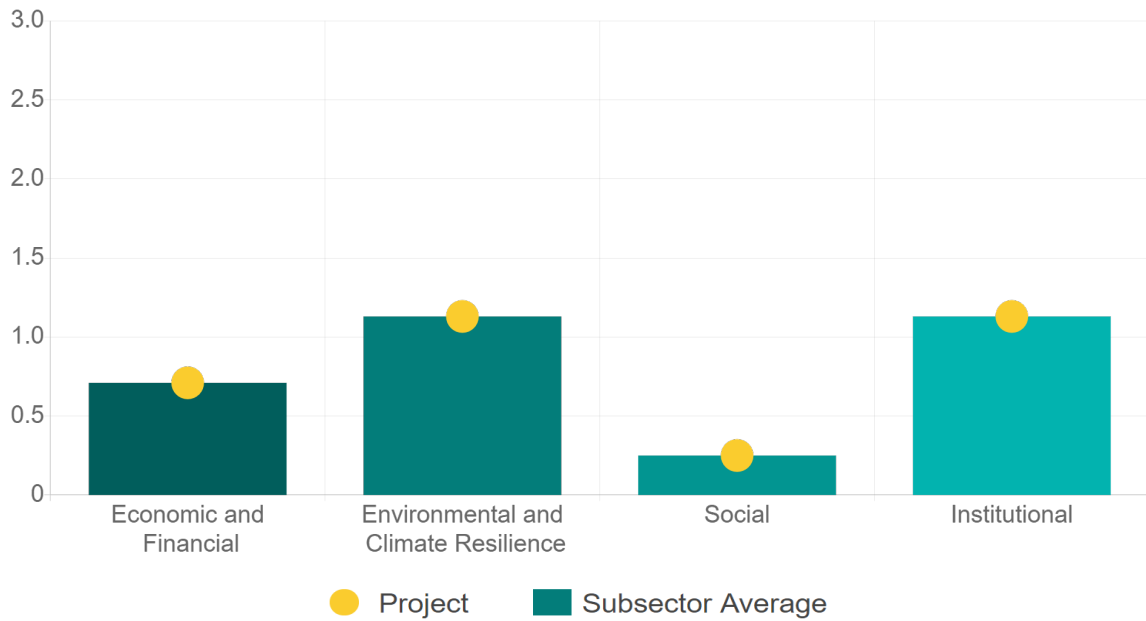
Sustainability criteria	NA	T1	T2	T3
Alignment with national and international strategies				
Sectoral and institutional integration				
Corporate sustainability, management and governance				
Transparency and anti-corruption protocols				
Legal requirements and compliance with social and environmental policies				
Development of more sustainable technologies and capacities				
Knowledge transfer in matters related to sustainability				
Pre-existing conditions and their monitoring				

**Source of this project:** Cogeneración eficiente. Proyecto Nuevo Pemex. The Green Expo / Inicia la operación comercial de la planta de cogeneración de Nuevo Pemex / Licitación Pública Internacional No. 18577001-036-08 / Financiamiento y Desarrollo del Proyecto Cogeneración Nuevo PEMEX / 2017 Sustainability Report / SUSTAINALYTICS ESG RISK RATING SUMMARY REPORT Atlantica Yield PLC / Abengoa. Ciclos Combinados y cogeneraciones / Proyecto Cogeneración Nuevo Pemex / [Show more...](#)



### 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)

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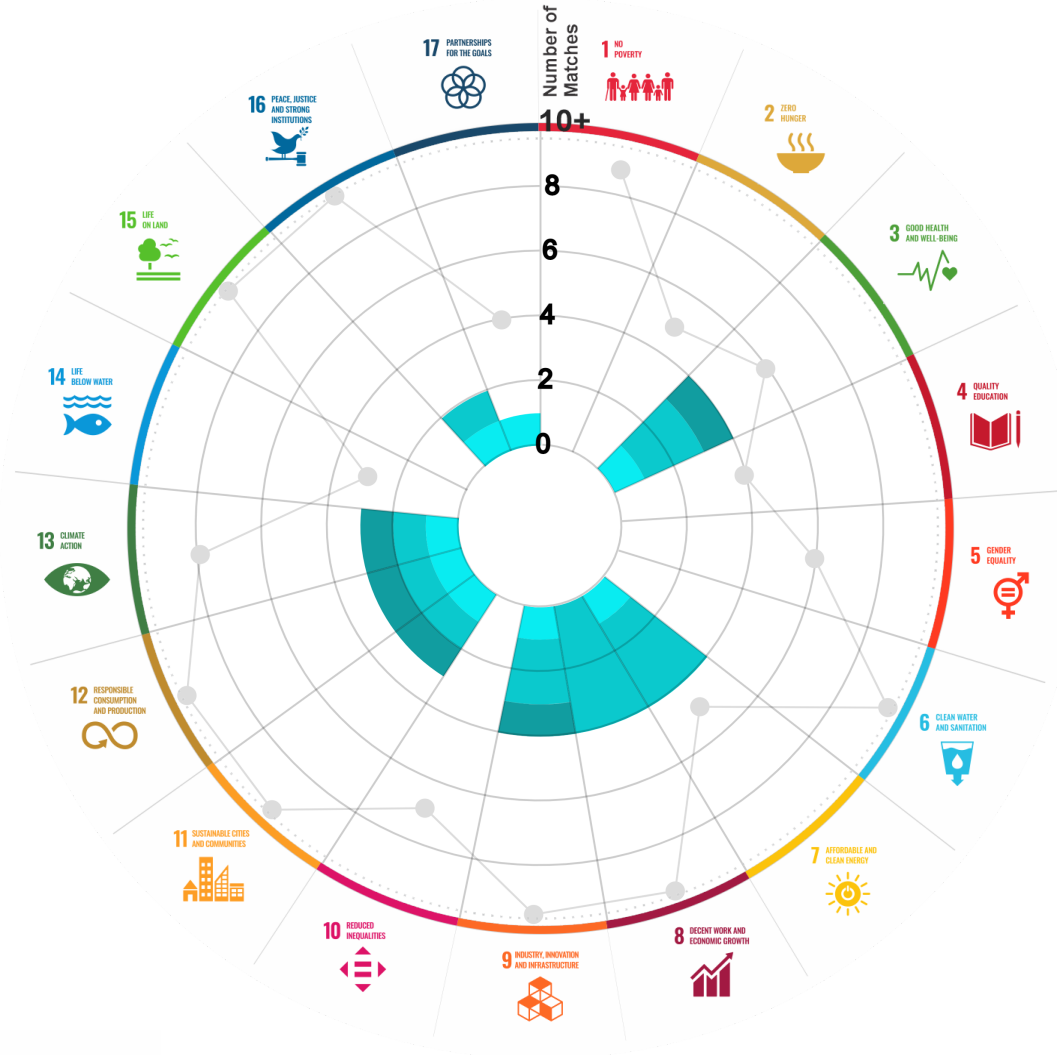
This section aims to present the potential alignment of the infrastructure project with the 17 Sustainable Development Goals (SDGs) of the 2030 Agenda. The relevance of this exercise resides in that it provides information to the actors of the infrastructure ecosystem for decision-making in investment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

Reading guide [View](#)

## 1. ALIGNMENT BY SUBSECTOR



## 2. ALIGNMENT BY SDG



## 3. ALIGNMENT BY CRITERIA AND TARGETS

[View](#)

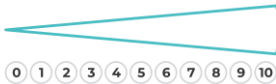


Explanation of the alignment of the sustainability criteria and the SDGs.

[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, OPERATION AND MAINTENANCE OF A STEAM AND ELECTRICITY COGENERATION PLANT IN THE STATE OF TABASCO.

SECTOR: ELECTRICITY  
SUBSECTOR: GENERATION

Type of Investment: Brownfield

Short Name of the Project: 0838 Nuevo Pemex Cogeneration Plant (ACT)

Contract Currency:  
Mexican Pesos MXN

Estimated Investment MXN  
\$ 6,500,000,000

Estimated Investment USD  
\$ 315,533,980

Exchange rate (USD/MXN) used by the Ministry of Finance for the economic plan 2023 \$ 20.6

## DESCRIPTION

Design, construction, operation and maintenance of a cogeneration plant capable of transforming demineralized water to steam and natural gas into electrical energy for delivery to the Nuevo Pemex Gas Processing Complex.

The plant has the capacity to generate 300 MW of electricity and up to 800 tons per hour of steam

Contract Scope: Design, Construction, Operation, Maintenance

Type of Project: Public / Private

Selection Process: International Open Tender

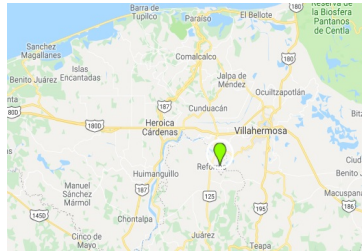
Term: 20 years

Type of Contract: Provision of services

Payment Source: Rate

Asset (s): Cogeneration Plant 300 MW, 800 Tons/Hour-Heat

## GEOLOCATION



## SPONSOR



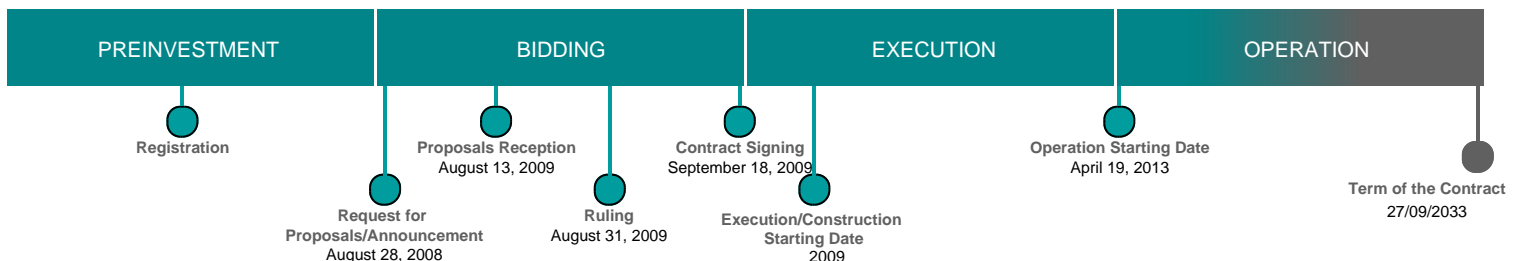
### Entity

Petróleos Mexicanos

### Department

Pemex Gas y Petroquímica Básica

## TIMELINE



Email: [proyectosmexico@banobras.gob.mx](mailto:proyectosmexico@banobras.gob.mx)



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Y CRÉDITO PÚBLICO

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