



MINISTRY OF PUBLIC WORKS – CHILE **MAJOR PROJECTS 2016-2021**

DECEMBER 2016



DIRECT PUBLIC INVESTMENT

- **Upgrade and Rehabilitation of Route 11 CH**
- **Optimization of Route 41 CH**
- **Improvement of Route E-30-F**
- **Upgrade of Route 7 by sections**
- **Canelillo Reservoir**
- **Pocuro Reservoir**
- **Cautín Reservoir**
- **New Hospital of Puente Alto**

PROJECT DATA SHEET

UPGRADE AND REHABILITATION ROUTE 11 CH

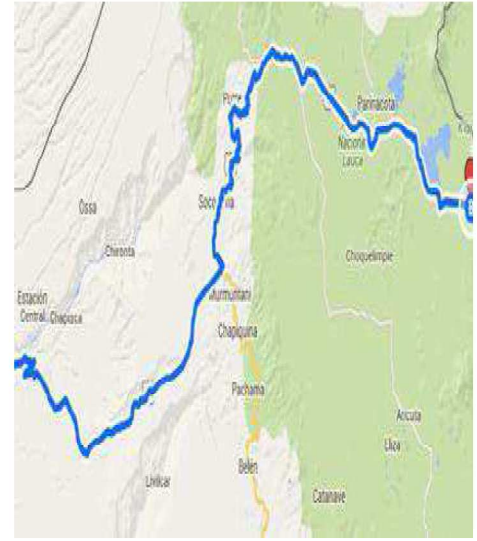
NATIONAL ROAD DEPARTMENT

Update date: December 2016

Project Information

Location	Arica & Parinacota Region
Objective	Improvement of the international highway Arica to Tambo Quemado (border with Bolivia), 192 km.
Description of Works	Maintenance and upgrade of Route 11 CH. Main works 2016-2019: Asphalt repair, construction of auxiliary tracks, road safety measures, path rectification, bridge construction and environmental measures.
Estimated Investment	2016-2019: US\$ 130 million 2020-2023: US\$ 250 million
Type of Investment	Public
Benefits	Improvement of connectivity between Chile and Bolivia and the Port of Arica. Reduction of risk of accidents and travel times and improving road safety.

Location Map



Current Situation

Timetable

	Activity	Date
Working section km. 36-60, asphalt repair, path rectification, construction of auxiliary tracks, road safety measures	Section km. 36-60	End of works 1 st Semester 2017
From first term 2016, Works on km. 170-192, asphalt replacement, road safety measures, path rectification, and environmental measures in Lauca National Park	Section km. 170-192	End of works 4 th Quarter 2018
In process design studies sections km 18-36; 76-100 and 100-127. Construction begins at the end of 2018. All projects consider citizen consulting process	Section km. 137-147	End of works 1 st Semester 2017
	End of works	2 nd Semester 2023

Source: Sub-Department of Development, Sub-Department of Works

PROJECT DATA SHEET

- OPTIMIZATION OF ROUTE 41 CH

NATIONAL ROAD DEPARTMENT

Update date: December 2016

Project Information

Location	Coquimbo Region
Objective	Improvement of the international connection from Coquimbo - La Serena to Argentina (San Juan) and the Mercosur.
Description of Works	Improvement works and expansion in some sections. Construction of bridges and protection structures in an international route of 233 km in the Chilean side.
Estimated Investment	2016-2019: US\$ 27 million 2019-2024: US\$ 104 million
Type of Investment	Public
Benefits	To improve connection between Chile and Argentina and the access to the Port of Coquimbo and the touristic areas in La Serena and Vicuña. Reduce the risk of accidents, reduce travel times and improve safety on the route.

Location Map



Current Situation

Design Project of section La Serena-Las Rojas ready at the end of 2016
New call for tender to finish section Juntas del Toro y Puente El Camarón (km 147-162) during first term 2017
Plans for Citizen Participation during the whole Project. Environmental management measures should be taken even if the Project is not in a National Park

Timetable

Activity	Date
Call for tender: Design of Las Rojas-Vicuña, including Puclaro bridge Rehabilitation and expansión works section La Serena-Las Rojas	2017
Design studies: Vicuña- Rivadavia	2019
Improvement Works: La Laguna- Llano Las Liebres	2020

Source: Sub-Department of Development, Sub-Department of Works

PROJECT DATA SHEET

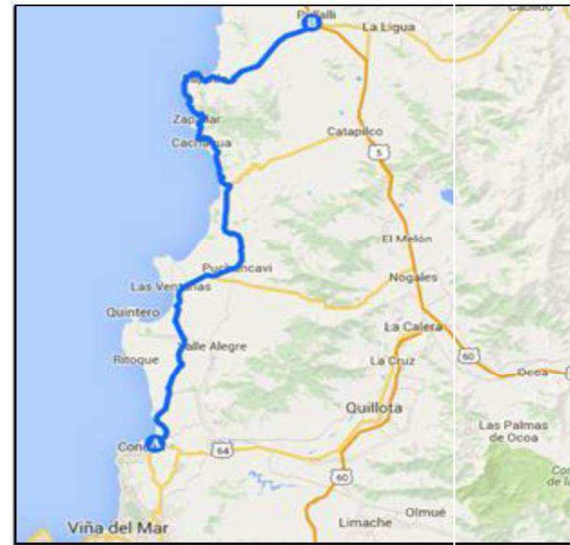
- IMPROVEMENT OF ROUTE E-30-F

NATIONAL ROAD DEPARTMENT

Update date: December 2016

Project Information	
Location	Valparaíso Region, from the crossing of National Highway 5 to Zapallar - Puchuncaví - Concón.
Objective	Improve the standard of urban and interurban roads between Zapallar and Concón.
Description of Works	<p>Route of 83 km.</p> <p>The first section will have 7 m. wide and an outer berm of 2 m.</p> <p>In the urban section (2 km.) a roundabout is considered together with a new bridge over the Aconcagua river</p>
Estimated Investment	2016-2019: US\$ 35 million 2020-2024: US\$ 119 million
Type of Investment	Public
Benefits	Improve coastal connectivity in Northern Valparaiso Region with a reduction of travel times, reduction of the risks of accidents and improvement in safety of the route.

Location Map



Current Situation	
Expropriation process until the end of 2016. Interurban section works in progress	
Engineering studies for section Concón - Quintero (17 km) ready at the end of 2016.	
Citizen Participation during the whole project	

Timetable	
Activity	Date
Call for tender:	
- Improvement of section Concón-Cantonera Norte Concón Bridge	2017
- Upgrading works of section Cantonera Norte-Cruce Route F-240	2018

Source: Sub-Department of Development, Sub-Department of Works

PROJECT DATA SHEET

- UPGRADE OF ROUTE 7 BY SECTIONS

NATIONAL ROAD DEPARTMENT

Update date: December 2016

Project Information	
Location	Los Lagos and Aysén Regions
Objective	<ul style="list-style-type: none">- Improvement of connectivity in Route 7 between Coyhaique and Puerto Montt with only 3 seatransfers- Studies for road construction of section Pichanco - Caleta Gonzalo and beginning of expropriation process.- Paving of central section in Villa Ortega- Paving from Cerro Castillo to South Access of Cochrane (250 km)- Design studies road Cochrane-Puerto Yungay (120 km)
Description of Works	<ul style="list-style-type: none">- Length of the road: 1,075 km (Pto. Montt – Coyhaique – Cochrane – Pto. Yungay), 475 km paved in asphalt or concrete.- Construction of a paved road for average speed of 50-70km/hr.- Sections of mountain road will be 4-6 mt.wide to allow average speed of 40 km/hr.
Estimated Investment	US\$ 1,200 million for improvement of remaining 600 kms
Type of Investment	Public
Benefits	Improve connectivity of the Region, with the reduction of travel times, risk of accidents and the improving of road safety. Benefits for the population, tourism and economic activities of 16 % of the national territory.

Location Map



Current Situation

This initiative is part of the portfolio of projects of the Special Development Plan for Extreme Areas (PEDZE) of the Region of Aysén. Citizen participation plans are considered.

The Project has been divided in 3 sections:

- Northern Section: Pto. Montt – Coyhaique
- Central: Intersection R 240 CH – Intersection Route X-50,
- Southern: Villa Cerro Castillo – Cochrane – Pto. Yungay.

Northern Section: Puerto Montt – Coyhaique:

- Not paved section: 230 km
- Studies under progress: 96 km
- Paving under progress: 65 km

Central Section: Intersection R 240 CH and Route X-50:

- Not paved section: 52 km
- Studies under progress: 28 km

Southern Section: Villa Cerro Castillo – Cochrane:

- Not paved section: 245 km
- Studies under progress: 65 km
- Basic Works under progress: 30 km

Timetable 2016 – 2018

Activity	Date
Northern Section, Call for bids	
· Section Puñon – Ex Pte. Parafina, 8 km	· 2 nd sem 2016
· Section Pte. Cisnes – Pichicolo, 11 km	· 2 nd sem 2016
· Section Pte. El Blanco – Pichanco, 25 km	· 2018 - 2019
· Section Leptepú – Fiordo Largo, 11 km	· 2018 - 2019
· Section C. Gonzalo – Pte. Bonito, 35 km	· 2017 - 2018
· Section Lím. Reg – La Tolva, 22 km	· 1 st sem 2017
· Section Lago Risopatrón, 14 km	· 2 nd sem 2017
· Section Las Pulgas – F. Queulat, 12 km	· 2 nd sem 2016
Sector F. Queulat – Bif. Cisnes, 27 km	2018 - 2019
Central Section, Call for bids	
· Section 1 Intersection R 240 CH – V. Ortega	· 2 nd sem 2016 – 2018
Southern Section, Call for bids:	
· Section V. Cerro Castillo – Laguna Verde	· 2017-18
· Section 1 Acc. Murta – Pto. Tranquilo	· 2017-18
· Section 1 Confluence River Baker/Nef – Cochrane	· 2017-18

Source: Sub-Department of Development, Sub-Department of Works

PROJECT DATA SHEET

- CANELILLO RESERVOIR

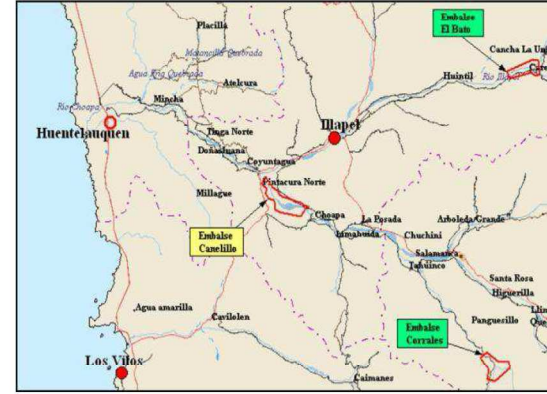
NATIONAL DEPARTMENT FOR HYDRAULIC WORKS

Update date: December 2016

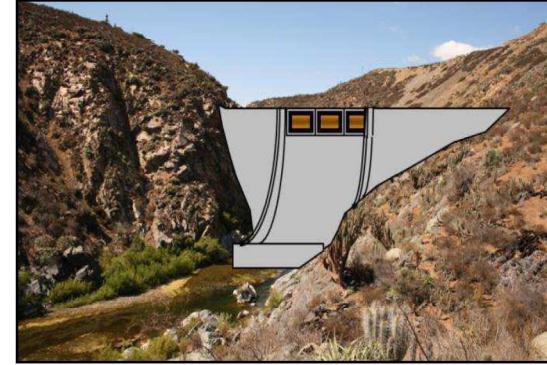
Project Information

Location	Province of Choapa in Coquimbo Region,
Description of Works	Capacity: 200 Hm ³ Flood area 800 ha Wall height: 84 m. Netwrk of new irrigation channels: 300 kms.
Irrigation Area	15.000 ha.
Communes	Illapel, Canela, Los Vilos
Estimated Investment	US\$ 169 million
Hydroelectric generation	Under analysis
Water Rights	The National Department for Hydraulic Works has rights for 150 Hm ³ /year. Possibilities to capture the water near the reservoir under study

Location Map



Wall of the dam



Current Situation

Feasibility studies are been executed by Empresa SMI. Design of Project and environmental studies from 2017

Timetable

Activity	Date
Feasibility studies	Ready end 2016
Study of environmental assessment	2017 – 2018
Design studies	2018 – 2019
Construction	2020 – 2024

Source: Department of Irrigation Projects

PROJECT DATA SHEET

- POCURO RESERVOIR

Project Information

Location	Province of los Andes, Commune of Calle Larga, Valparaíso Region
Description of Works	Volume of the reservoir: 100 Hm ³ Dam wall height: 100 m Feeder Channel: 17 km (from Aconcagua River) and a capacity of 20 m ³ /s Main channel: 10 km
Irrigation Area	30.000 Has
River sections	1 st and 2 nd sections of Aconcagua river
Estimated Investment	US\$ 290 million
Hydroelectric generation	5 to 10 MW installed capacity
Water Rights	The National Department has permanent water rights for 400 Hm ³ /year in the first section of Aconcagua river.

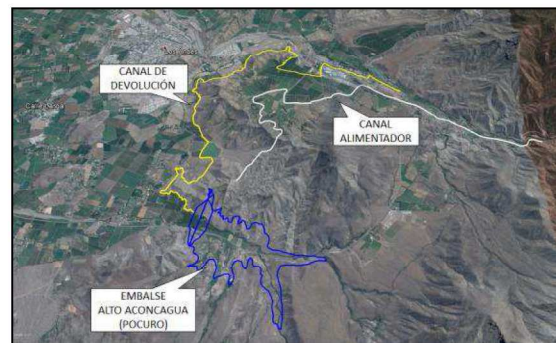
Current Situation

1. Feasibility studies and environment assessment under progress, ending first Semester 2017
2. Working on a model to run in a single contract both design and construction

NATIONAL DEPARTMENT FOR HYDRAULIC WORKS

Update date: December 2016

Location Map



Area of the Wall Dam



Timetable

Activity	Date
Social and economic State Evaluation System	1 st sem. 2017
Council of Ministers	1 st sem 2017
Allocation of budgetary resources	1 st sem. 2017
Expropriation	2 nd sem. 2017
Call for bids	2 nd sem. 2017

Source: Department of Irrigation Projects

PROJECT DATA SHEET

- CAUTIN RESERVOIR

Project Information

Location	Province of Cautín, Araucanía Region
Description of Works	Capacity: 142 Hm ³ Dam wall height: 62 m
Irrigation Area	32.274 Has
Communes	Victoria, Perquenco and Lautaro
Estimated Investment	US\$ 427 million
Hydroelectric generation	Under evaluation
Water Rights	The National Department has permanent water rights for 670 Hm ³ /year and temporal water rights for 534 Hm ³ /year.

Current Situation

Prefeasibility studies ready since 2013

Feasibility studies from 2017

NATIONAL DEPARTMENT FOR HYDRAULIC WORKS

Update date: December 2016

Location Map



Timetable

Activity	Date
Feasibility studies	2017- 2018
Environmental Assessment	2019 – 2020
Design	2020 - 2021
Construction	2022 - 2024

Source : Department of Irrigation Projects

PROJECT DATA SHEET

- NEW HOSPITAL OF PUENTE ALTO

NATIONAL DEPARTMENT OF ARCHITECTURE

Update date: December 2016

Project Information	
Location	Commune of Puente Alto, Santiago Metropolitan Region
Objective	Set up a health infrastructure to give high complexity coverage to 1.5 million inhabitants in the south of Santiago city
Description of Works	It will have 400 beds (48 for critical patients), 10 surgical pavilions
Estimated Investment	US\$ 243 million (including equipment)
Type of Investment	Public. Ministry of Health
Other Priorities	It should cover: open care, hospitalization, therapeutic procedures, emergency telemedicine and a nursery.



Current Situation

Proyecto delayed
Design studies by the Ministry of Health in progress

Timetable

Activity	Date
Call for bids	2018

Source: Planning and Coordination Division

CONCESSIONS

- The Loa Route
- Route 5, Section Antofagasta – Iquique
- Route 5: Section Caldera - Antofagasta
- Re-tender of Route N° 5 Los Vilos – La Serena and Conurbation
- Route 5, Section Santiago - Los Vilos
- Interconnection Santiago-Valparaíso-Viña del Mar (Route 68) + Alternatives
- Costanera Central Highway - Section Av. La Florida – Camilo Henríquez
- Eastern Américo Vespucio Urban Highway - Príncipe de Gales – Grecia
- Interconnection Highway 68 with Highway 78
- Highway Santiago – San Antonio (Route 78)
- Transversal Route of O’higgins Region
- Fruit Highway, G-66
- Re-tender Route 5 - Talca – Chillán
- Re-tender Route 5 - Chillán – Collipulli
- Nahuelbuta Route
- Route Freire – Villarrica – Pucón
- Re-tender Route 5: Temuco – Rio Bueno + Access to Valdivia
- Metropolitan Highway of Puerto Montt
- North-South Route of Chiloé
- Las Palmas Reservoir
- Los Angeles Reservoir
- Catemu Reservoir
- La Jaula Reservoir

PROJECT DATA SHEET
- THE LOA ROUTE

PUBLIC WORKS PPP

Update date: December 2016

Project Information

Location	Communes of Sierra Gorda and Calama in Antofagasta Region
Objective	Increase service levels and improving connectivity and territorial integration of the Region
Description of Works	<ul style="list-style-type: none"> • Revamping and expansion up to 2 lanes each side of the Route 25 • Construction of the Eastern bypass to Calama connecting Routes 21, 23, 24 and 25
Economic Conditions	<ul style="list-style-type: none"> • It considers MGI and ITC
Estimated Investment	US\$ 200 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none"> • Improvement of service and standard levels of Route 25. • Improvement of safety conditions and shorter travel times

Location Map



Current Situation

<ul style="list-style-type: none"> • Preparation of bidding conditions

Timetable

Call for Bids	4 th Quarter 2016
Receipt of Tenders	2 nd Semester 2017
Contract award	1st Semester 2018

Source: CCOP

PROJECT DATA SHEET

- ROUTE 5, SECTION ANTOFAGASTA – IQUIQUE

PUBLIC WORKS PPP

Update date: December 2016

Project Information:

Location	Route 5 between the cities of Antofagasta and Iquique
Objective	Improvement of the standard in Route 5, Carmen Alto and Humberstone in the junction with Route 16.
Description of Works	<ul style="list-style-type: none">• Two lanes in each side.• Max speed 120km/h
Economic Conditions	<ul style="list-style-type: none">• Road tolls• State subsidy 30% aprox.
Estimated Investment	US\$ 458 million
Type of Investment	PPP - BOT
Benefits	<ul style="list-style-type: none">• Rehabilitation and improvement of a section of the Route 5.• Improvement of safety conditions and shorter travel times• More secondary access roads

Location Map



Current Situation

<ul style="list-style-type: none">• Private initiative• Studies under progress

Timetable

Call for Bids	1 st Semester 2020
Receipt of Tenders	2 nd Semester 2020
Contract award	2 nd Semester 2021

Source: CCOP

PROJECT DATA SHEET

- ROUTE 5: SECTION CALDERA - ANTOFAGASTA

PUBLIC WORKS PPP

Update date: December 2016

Project Information:

Location	Route 5 between the cities of Caldera and Antofagasta
Objective	Improvement of the standard in this section of the Route 5
Description of Works	<ul style="list-style-type: none">• Two lanes in each side.• Max speed 120km/h
Economic Conditions	<ul style="list-style-type: none">• Road tolls• State subsidy 30 %
Estimated Investment	US\$ 640 million
Type of Investment	PPP – BOT -
Benefits	<ul style="list-style-type: none">• Expansion of the 4 lanes highway from Antofagasta to the south• Improvement of safety conditions and shorter travel times• More secondary access roads

Location Map



Current Situation

- Studies of this private proposal under progress
- Possible subsidies under study

Timetable

Call for Bids	3 rd Quarter 2018
Receipt of Tenders	1 st Quarter 2019
Contract award	2 nd Semester 2019

Source: CCOP

PROJECT DATA SHEET

- RE-TENDER OF ROUTE N° 5 LOS VILOS – LA SERENA AND CONURBATION

PUBLIC WORKS PPP

Update date: December 2016

Project Information

Location	North of Santiago from km 229 to km 474
Objective	Re-tender of the contract for Route N° 5 from Los Vilos to Coquimbo, including urban sector between Coquimbo and La Serena
Description of Works	<ul style="list-style-type: none">• 229 km 4-lanes intercity road• 17 km of urban highway with three lanes in each direction
Economic Conditions	<ul style="list-style-type: none">• Road tolls
Estimated Investment	US\$ 328 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none">• Improve urban connectivity• Increase transport capacity on the urban sector• Reduce accidents• With this section the concessioned highway from Caldera to Pargua goes up to 1.955 km

Location Map



Current Situation

- Private Initiative
- Developing studies for: design, expropriations, environmental assessment
- Finishing project proposal
- Preparation of bidding conditions

Timetable

Call for bids	2 nd Quarter 2017
Reception of bids	4 th Quarter 2017
Contract award	1 st Semester 2018

Source: CCOP

PROJECT DATA SHEET

- ROUTE 5, SECTION SANTIAGO - LOS VILOS

Project Information:

Location	Communes of Quilicura, Colina, Lampa, Til Til, Llay Llay, Hijuelas, La Calera, Nogales, Zapallar, La Ligua, Papudo and Los Vilos in Central Chile
Objective	Increase service levels and improving connectivity and territorial integration of this part of the national territory
Description of Works	Improvement of the standard of the Route 5 between Santiago and Los Vilos.
Economic Conditions	Road tolls - No subsidies
Estimated Investment	US\$ 225 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none">• Standard improvement of a section of the Route 5.• Improvement of safety conditions and shorter travel times• More secondary access roads

PUBLIC WORKS PPP

Update date: December 2016

Location Map



Current Situation

Evaluating necessary studies to develop this re-tender project

Timetable

Call for Bids	End of 2019
Receipt of Tenders	2 nd Semester 2020
Contract award	1 st Quarter 2021

Source: CCOP

PROJECT DATA SHEET

- INTERCONNECTION SANTIAGO-VALPARAÍSO-VIÑA DEL MAR (ROUTE 68) + ALTERNATIVES

PUBLIC WORKS PPP

Update date: December 2016

Project Information:

Location	Provinces of Valparaíso and Santiago
Objective	Increase service levels and improving the standard of the highway
Description of Works	Route 68, has 110 km. It needs a better standard with different secondary roads, junctions and additional lanes.
Economic Conditions	<ul style="list-style-type: none">Road tolls
Estimated Investment	US\$ 600 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none">Promotes regional economic growth and territorial integration of 2 of the most important metropolitan areas of the country and Valparaíso seaport

Location Map



Current Situation

- Studies of demand and Social Evaluation under progress
- Re-tender Route 68 Santiago – Valparaíso – Viña del Mar.

Timetable

Call for Bids	1 st Semester 2019
Receipt of Tenders	End of 2019
Contract award	2 nd Quarter 2020

Source: CCOP

PROJECT DATA SHEET

- COSTANERA CENTRAL HIGHWAY - SECTION AV. LA FLORIDA – CAMILO HENRÍQUEZ

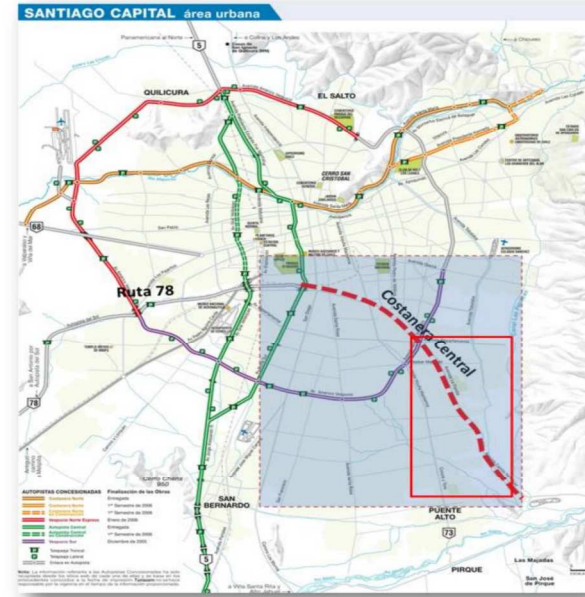
PUBLIC WORKS PPP

Update date: December 2016

Project Information:

Location	South-east side of Santiago Metropolitan Area. Communes of La Florida and Puente Alto.
Objective	Improvement of transport system, connectivity and infrastructure standard of the city
Description of Works	<ul style="list-style-type: none"> Building a high standard underground highway of 12 km.. 9 km is an underground route with 3 lanes in each side and the other 3 km will have 2 lanes in each side. The project includes connections to local roads and Américo Vespucio Sur Highway.
Economic Conditions	<ul style="list-style-type: none"> Road tolls State subsidies 35-40 % Free flow tolls
Estimated Investment	US\$ 1,116 million
Type of Investment	Private Initiative - PPP – BOT
Benefits	<ul style="list-style-type: none"> Improvement of connectivity between south-east districts and downtown Reduction of traffic congestion New public transport corridor Reduction of operational costs. Improvement of safety conditions and shorter travel times.

Location Map



Current Situation

- Developing of technical studies
- Consultations with local communities

Timetable

Call for bids	3 rd Quarter 2017
Receipt of tenders	2 nd Quarter 2018
Contract award	End of 2018

Source: CCOP

PROJECT DATA SHEET

- Eastern Américo Vespucio Urban Highway - Príncipe de Gales – Grecia

PUBLIC WORKS PPP

Update date: December 2016

Project Information

Location	Eastern side of Santiago
Objective	Complete the Américo Vespucio ring road with high quality and service standard
Description of Works	<ul style="list-style-type: none">Construction of two underground double tracks with 3 lanes each sideUrban redeveloping in surface considering larger green areas and more facilities for public urban transportation.
Economic Conditions	<ul style="list-style-type: none">Road tollsEstimated 15% of state subsidyFree flow tolls
Estimated Investment	US\$ 790 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none">Complete the Américo Vespucio ring road in Santiago with a high service standardReduce accidents and traffic jams, mainly during rush hours.Reduce commuting time and pollution emissions.Improve public transportation and connectivity in the city.

Location Map



Current Situation

- Finishing technical studies
- Bidding bases under analysis
- Prequalification process re-open
- Closing agreements and approval with authorities

Timetable

Call for Bids	August 2016
Receipt of Tenders	1 st Quarter 2017
Contract award	2 nd Semester 2017

Source: CCOP

PROJECT DATA SHEET**INTERCONNECTION HIGHWAY 68 WITH HIGHWAY 78****PUBLIC WORKS PPP**

Update date: December 2016

Project Information:	
Location	Western side of Santiago Metropolitan Area. Communes of Pudahuel and Maipú.
Objective	Improvement of transport system, connectivity and infrastructure standard of Western Santiago
Description of Works	<ul style="list-style-type: none">• Construction of a 9.4 km 4-lanes road, to reduce traffic impact in urban zones• Internal roads, lighting and drainage• Construction of different flyovers and structures in the junctions with Route 68 and Route 78• Internal roads and road safety measures
Economic Conditions	<ul style="list-style-type: none">• Road tolls• Free flow tolls• No subsidies
Estimated Investment	US\$ 250 million
Type of Investment	Private Initiative - PPP – BOT
Benefits	<ul style="list-style-type: none">• Improve connectivity between central and western areas of Santiago• Improve connection to the main national seaports avoiding to cross through Santiago.• Better local urban development• Reduction of accidents, travel times and pollution emissions
Current Situation	
<ul style="list-style-type: none">• Finishing technical studies• Preparation of bidding contracts	

Location Map

Source: CCOP

Timetable	
Call for bids	3 rd Quarter 2017
Reception of bids	1 st Quarter 2018
Contract award	3 rd Quarter 2018

PROJECT DATA SHEET

- HIGHWAY SANTIAGO – SAN ANTONIO (ROUTE 78)

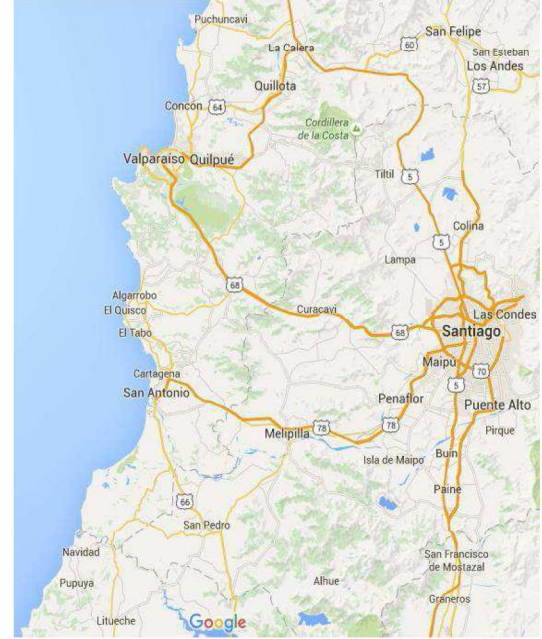
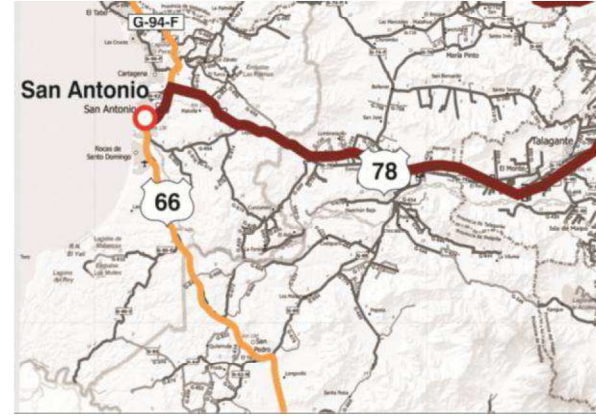
PUBLIC WORKS PPP

Update date: December 2016

Project Information:

Location	Provinces of Santiago, Talagante, Melipilla and San Antonio.
Objective	Upgrade the standard of the route Better service levels
Description of Works	<ul style="list-style-type: none">Route 78 highway has 4 lanes and an extension of 105 kmsIt needs a better standard with different secondary roads, junctions and local roads.Replacement of old bridges and construction of a few new ones.
Economic Conditions	<ul style="list-style-type: none">Road tollsNo subsidiesOne trunk toll area in Melipilla and in some junction roads.
Estimated Investment	US\$ 300 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none">Promotes regional economic growth and territorial integration in medium size localities and between Santiago and the main national port: San Antonio

Location Map



Current Situation

- Re-tender of Route 78 Santiago-San Antonio
- Studies of demand and social evaluation under progress

Source: CCOP

Timetable

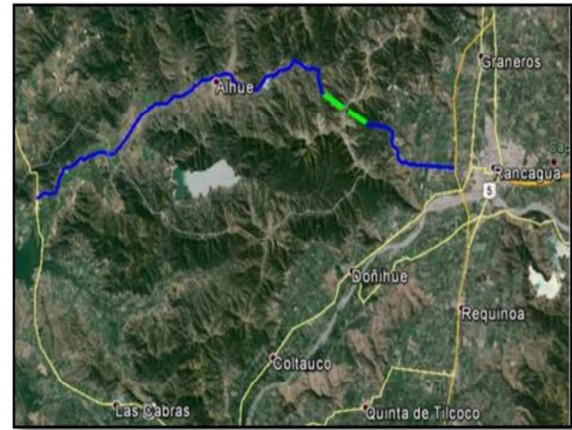
Call for Bids	1 st Quarter 2020
Receipt of Tenders	4 rd Quarter 2020
Contract award	1 st Semester 2021

PROJECT DATA SHEET**TRANSVERSAL ROUTE OF O'HIGGINS REGION****PUBLIC WORKS PPP**

Update date: December 2016

Project Information:

Location	From south-west Rancagua to the village of Alhué
Objective	Create a new connection to the port of San Antonio from Rancagua and the commune of Alhué
Description of Works	<ul style="list-style-type: none">• Building of a new road (68 km.) including auxiliary tracks and road safety measures.• Tunnel of 6 km.
Economic Conditions	<ul style="list-style-type: none">• Road tolls• State subsidy almost 30%
Estimated Investment	US\$ 306 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none">• Improve travel time between Rancagua and San Antonio• Create a better connection to the Fruit Highway G-66• Complementary to the future binational tunnel Las Leñas between Chile and Argentina

Location Map**Current Situation**

- First stages of a private initiative. Studies under progress

Timetable

Call for Bids	1 st Semester 2020
Receipt of Tenders	2 nd Semester 2020
Contract award	1 st Semester 2021

Source: CCOP

PROJECT DATA SHEET**- FRUIT HIGHWAY, G-66****PUBLIC WORKS PPP**

Update date: December 2016

Project Information

Location	120 km south from Santiago to the port of San Antonio
Objective	Improve connectivity for small and medium scale producers (fruits, vegetables and wine) from O'Higgins and Maule Regions to the port of San Antonio
Description of Works	<ul style="list-style-type: none">• Restore and improve 138 km of the existing road and construction of a bidirectional road to reduce traffic impact in urban zones• Construction of a 21 km 4-lanes road• Construction of different flyovers and structures to reduce negative impact on population
Economic Conditions	<ul style="list-style-type: none">• Road tolls• State subsidies 50-60 %• Free flow tolls
Estimated Investment	US\$ 600 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none">• Improvement of connectivity• Reduction of transport costs for local producers• Reduction of accidents

Location Map**Current Situation**

<ul style="list-style-type: none">• Finishing technical studies• Closing agreements with local authorities and citizen participation• Preparation of bidding contracts
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Timetable

Call for Bids	End of 2016
Receipt of Tenders	1 st Semester 2017
Contract award	2 nd Semester 2017

Source: CCOP

PROJECT DATA SHEET**RE-TENDER ROUTE 5 - TALCA – CHILLÁN****PUBLIC WORKS PPP**

Update date: December 2016

Project Information:

Location	Communes of Río Claro, San Rafael, Talca, Maule, San Javier, Villa Alegre, Linares, Longaví, Retiro, Parral y Ñiquén, San Carlos, San Nicolás, Chillán and Chillán Viejo.
Objective	Increase service levels and improving the standard of the highway with additional works
Description of Works	4-lanes road and 193.3 km, It will have: <ul style="list-style-type: none">• New local roads• Junctions – bridges• Bypass sectors• Free flow toll system
Economic Conditions	<ul style="list-style-type: none">• Road tolls• No subsidies
Estimated Investment	US\$ 225 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none">• Improve connectivity between central and southern Chile• Better local and regional economic development and integration• Reduction of accidents, travel times and pollution emissions

Location Map**Current Situation**

- Studies of demand and social evaluation under progress
- TOR of basic engineering studies in preparation.

Timetable

Call for Bids	End of 2018
Receipt of Tenders	3 rd Quarter 2019
Contract award	End of 2019

Source: CCOP

PROJECT DATA SHEET**- RE-TENDER ROUTE 5 - CHILLÁN –
COLLIPULLI****PUBLIC WORKS PPP**

Update date: December 2016

Project Information:

Location	Communes of Chillán, Bulnes, Cabrero, Los Ángeles, Mulchén and Collipulli in Biobío Region
Objective	Improvement of actual highway standard, including additional works and the increase of service levels while improving user safety
Description of Works	Section of 160 km. in Route 5 with 2-lanes in each side. To include: <ul style="list-style-type: none">• New local roads• Junctions – bridges• Bypass sectors• Free flow toll system
Economic Conditions	<ul style="list-style-type: none">• Road tolls• No subsidies
Estimated Investment	US\$ 225 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none">• Improvement of connectivity• Reduction of transport costs for local producers• Reduction of accidents• Improve connectivity between central and southern Chile• Better local and regional economic development and integration

Location Map**Current Situation**

- Studies under progress

Timetable

Call for Bids	1 st Semester 2019
Receipt of Tenders	3 rd Quarter 2019
Contract award	1 st Quarter 2020

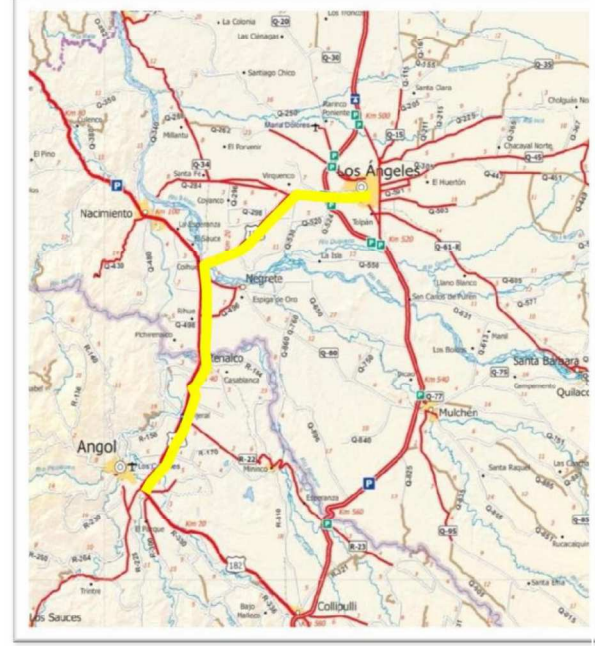
Source: CCOP

PROJECT DATA SHEET**- NAHUELBUTA ROUTE****PUBLIC WORKS PPP**

Update date: December 2016

Project Information

Location	Km 520 south of Santiago
Objective	Improve connectivity and maximize economic and social benefits in an area mainly focused on forests and forestry
Description of Works	<ul style="list-style-type: none">• 55 km road• 4-lanes highway• Uneven junctions
Economic Conditions	<ul style="list-style-type: none">• Road tolls• Estimated 41% of state subsidy• Manual tolls
Estimated Investment	US\$ 245 million
Type of Investment	PPP – B5OT
Benefits	<ul style="list-style-type: none">• Connectivity improvement• Reduction of transport costs for local producers• Reduction of accidents

Location Map**Current Situation**

<ul style="list-style-type: none">• Bidding bases and procedures under final revision• Closing agreements with local authorities and indigenous communities
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Timetable

Call for Bids	End 2016
Receipt of Tenders	1 st Semester 2017
Contract award	2 nd Semester 2017

Source: CCOP

PROJECT DATA SHEET

- ROUTE FREIRE – VILLARRICA – PUCÓN

Project Information:

Location	Freire, Villarrica and Pucón
Objective	Improvement of Route 199 CH between Freire and Villarrica and additional works
Description of Works	<ul style="list-style-type: none">• Construction of a road with 2-lanes in each side• High safety standard• 40.8 km. of auxiliary roads
Economic Conditions	<ul style="list-style-type: none">• Road tolls• State subsidy approx. 28 %
Estimated Investment	US\$ 330 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none">• Connectivity improvement• Reduction of transport costs for local producers• Reduction of accidents and congestion

Current Situation

- Private initiative under study

Source: CCOP

PUBLIC WORKS PPP

Update date: December 2016

Location Map



Timetable

Call for Bids	End of 2019
Receipt of Tenders	1 st Quarter 2020
Contract award	2 nd Semester 2020

PROJECT DATA SHEET

- RE-TENDER ROUTE 5: TEMUCO – RIO BUENO + ACCESS TO VALDIVIA

PUBLIC WORKS PPP

Update date: December 2016

Project Information:

Location	Communes of Gorbea, Loncoche, Lanco, San José de la Mariquina, Máfil, Los Lagos, Paillaco, La Unión, Río Bueno and Valdivia
Objective	Improvement of actual highway standard, including additional works and the increase of service levels while improving user safety and better access to Valdivia city
Description of Works	<ul style="list-style-type: none">Improvement of 172 km. of the 4 - lanes roadUpgrade to 2-lanes in each side to Valdivia (88 km.)New local roadsJunctions – bridgesBypass sectors.
Economic Conditions	<ul style="list-style-type: none">Road tollsNo subsidies
Estimated Investment	US\$ 250 million.
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none">Increase of safety standard to decrease accident rate in access to ValdiviaConnectivity improvementReduction of transport costs for local producersReduction of accidents and congestionBetter local and regional economic development

Location Map



Current Situation

- Private initiative. Proponent R y Q Ingeniería. Time limit for presentation of first studies: April 2017

Timetable

Call for Bids	End of 2017
Receipt of Tenders	4 th Quarter 2018
Contract award	2 nd Quarter 2019

Source: CCOP

PROJECT DATA SHEET

- METROPOLITAN HIGHWAY OF PUERTO MONTT

PUBLIC WORKS PPP

Update date: December 2016

Project Information

Location	Puerto Montt - 1.000 km. south of Santiago
Objective	<ul style="list-style-type: none">• Improvement of transport system, connectivity and infrastructure standard of Puerto Montt• Improvement of connection between Puerto Varas and El Tepual Airport
Description of Works	<ul style="list-style-type: none">• 4-lanes highway in 32 km.• Urban highway standard
Economic Conditions	<ul style="list-style-type: none">• Road tolls• Estimated State subsidy; 30 %• Free flow tolls
Estimated Investment	US\$ 321 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none">• Improvement of connectivity between Puerto Montt and Puerto Varas• Reduction of traffic congestion.• Reduction of operational costs.• Improvement of safety conditions.

Location Map



Current Situation

<ul style="list-style-type: none">• Private initiative• Developing of technical studies (demand, environmental assesment, business model, etc..)• Defining economic conditions• Citizen participation from 2nd Semester 2016
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Timetable

Call for Bids	2 nd Quarter 2017
Receipt of Tenders	4 th Quarter 2017
Contract award	1 st Semester 2018

Source: CCOP

PROJECT DATA SHEET**- NORTH-SOUTH ROUTE OF CHILOÉ****PUBLIC WORKS PPP**

Update date: December 2016

Project Information

Location	1,100 km south of Santiago
Objective	Improve and extend the transportation system in the island of Chiloé
Description of Works	<ul style="list-style-type: none">Improvement of 101 km road with 2-lanes each sideConstruction of auxiliary tracks, road safety measures, path rectification, construction of new bridges and maintenance of existing ones and environmental measures.
Economic Conditions	<ul style="list-style-type: none">Road tollsNo subsidies
Estimated Investment	US\$ 250 million
Type of Investment	Private initiative – PPP BOT
Benefits	<ul style="list-style-type: none">Improve connectivityIncrease transport capacity on the trunk road of the islandReduce accidentsContribute to the economic development of the island

Location Map**Current Situation**

<ul style="list-style-type: none">Private initiative (Constructora Internacional). Developing of studies until February 2017Preparation of bidding conditions
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Timetable

Call for Bids	3 rd Quarter 2017
Receipt of Tenders	2 nd Quarter 2018
Contract award	1 st Quarter 2019

Source: CCOP

PROJECT DATA SHEET

LAS PALMAS RESERVOIR

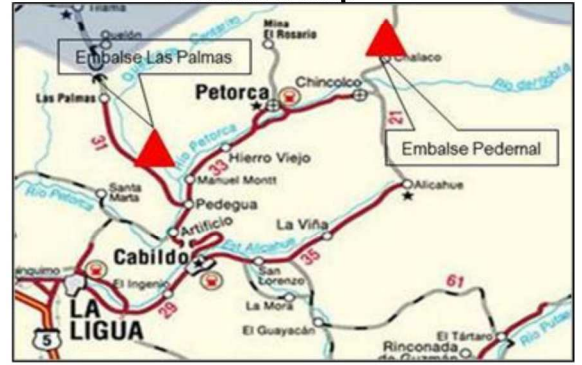
NATIONAL DEPARTMENT FOR HYDRAULIC WORKS

Update date: December 2016

PROJECT INFORMATION:

Location	Petorca Province, Petorca Commune
Description of Works	Volume of the reservoir: 55 Hm ³ . Feeder channel: 58 km .
Irrigation area	3,281 Ha and 1,285 rural properties
River sections	In communes of Petorca and Cabildo
Estimated investment and economic conditions	VAN MM\$ 35,000. TIR = 8,9 % US\$ 169 million
Hydroelectric generation	No
Water rights	The National Department has water rights for 10 Hm ³ /year, in rivulet Las Palmas.

Location Map



Current Situation	Timetable	
	Activity	Date
1. Design studies under process	End of design	August 2016
2. Project in the National System for Environment Assessment	Environment Assessment	August 2016
3. The MOPW is analyzing a PPP model for financing	Call for bids	End of 2017
	End of construction	2022

Source: Department of Irrigation Projects

PROJECT DATA SHEET

- LOS ÁNGELES RESERVOIR

NATIONAL DEPARTMENT FOR HYDRAULIC WORKS

Update date: December 2016

PROJECT INFORMATION:

Location	Petorca Province, Commune of La Ligua.
Description of Works	Volume of the reservoir: 30 Hm ³ . Feeder channel 24 km (from Alicahue River).
Irrigation Area	2,160 Ha. and 676 rural properties
Socio-economic indicators	VAN: MM\$ 280
Estimated Investment	US\$ 161 million
Hydroelectric Generation	No
Water rights	Water rights under study. The reservoir has water rights from users.

Location Map



Current Situation

Timetable

	Activity	Date
1. Environment assessment studies under progress.	Design Studies	1st Semester 2017
2. Complementary design studies are developing	Environment Assessment	1st Semester 2017
3. The MOPW is analyzing PPP conditions and financial alternatives	Bidding process	End of 2017

Source: Department of Irrigation Projects

PROJECT DATA SHEET

- CATEMU RESERVOIR

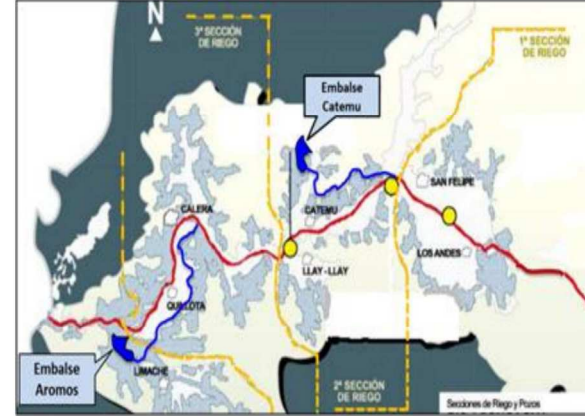
NATIONAL DEPARTMENT FOR HYDRAULIC WORKS

Update date: December 2016

Project Information

Location	San Felipe Province, Commune of Catemu in Valparaiso Region
Description of works	Volume of the reservoir: 180 Hm ³ Dam wall height: 65 m Feeder Channel: 25 km (from Aconcagua River) and a capacity of 20 m ³ /s
Irrigation area	38,000 Ha and 4,160 rural properties
River sections	Lower areas of 2 nd , 3 rd and 4 th sections of Aconcagua River
Estimated investment	US\$ 368 million
Hydroelectric generation	5 to 10 MW
Water rights	The National Department has water rights for 630 Hm ³ /year in the 2 nd section of Aconcagua River. Water rights of users equivalent to 70 % during winter.

Location Map



Current Situation

<p>Technical studies to review and complement the feasibility of the dam are performed via direct contracts</p> <p>Study of environmental assessment under progress. Working on the concession model Prequalification requirements for special registration under analysis of Comptroller.</p> <p>Tender conditions in elaboration</p>
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Timetable

Activity	Date
Decision by the Council of Ministers	1 st sem. 2016
Expropriation	End of 2016
Bidding process	2 nd Quarter 2017

Source: Department of Irrigation Projects

PROJECT DATA SHEET

- LA JAULA RESERVOIR

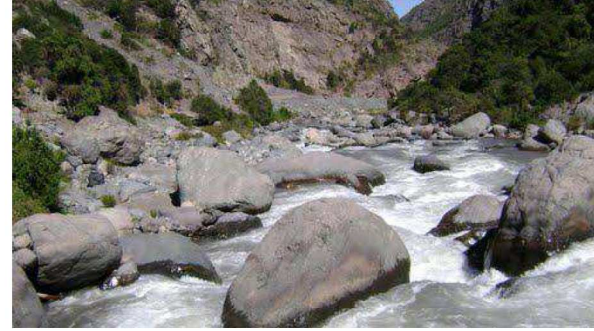
NATIONAL DEPARTMENT FOR HYDRAULIC WORKS

Update date: December 2016

Project Information

Location	Commune El Romeral (Teno river), Maule Region
Description of Works	Capacity: 160 Hm ³ Dam Wall height: 115 m
Irrigated área	53,045 Has.- Commune of Teno
Estimated Investment	US\$ 359 million
Hydroelectric Generation	20 MW (estimated)
Water rights	The National Department has water rights for 320 Hm ³ in the Teno River from October to January

Location Map



Current Situation

Prefeasibility studies developed during 2014.
Feasibility studies to be developed by the National Department for Hydraulic Works 2017-2018
2016-2017 Evaluation of possibilities to be a PPP project

Timetable

Activity	Date
Feasibility	2017 - 2018
Environment Assessment	2019 – 2020
Design	2020 – 2021
Construction	2022 - 2024

Source: Department of Irrigation Projects

BINATIONAL PROJECTS

- Agua Negra Binational Tunnel

PROJECT DATA SHEET

- AGUA NEGRA BINATIONAL TUNNEL

CHILE-ARGENTINA

Update date: December 2016

Project Information

Location	Coquimbo region in Chile and San Juan Province in Argentina
Objective	Improve integration between Chile and Argentina and extend the transportation system with Mercosur countries
Description of Works	<ul style="list-style-type: none">Construction of a tunnel of 13.9 km in the Andes Mountains at 3,600 mt of altitude
Economic Conditions	Total costs according to the territorial part: 72 % Argentina and 28 % Chile
Estimated Investment	US\$ 1.4 billion
Type of Investment	Direct public investment financed by IABD
Benefits	<ul style="list-style-type: none">Improve connectivity of Chile and Mercosur countriesContribute to the economic development mainly of Coquimbo region and San Juan Province

Location Map



Current Situation

<ul style="list-style-type: none">Institutional organization of a binational entity: EBITANPrequalification in progress
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Timetable

Call for prequalification	October 19th, 2016
Call for Bids	2 nd Quarter 2017
Contract award	1 st Quarter 2018

Source: MOP