

Cielos
de Tarapacá

Chapter 14

**Description of the relationship between the project and the regional
and communal development policies, plans and programmes**

EIA Cielos de TARAPACÁ

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Chapter 14

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EIA Cielos de TARAPACA

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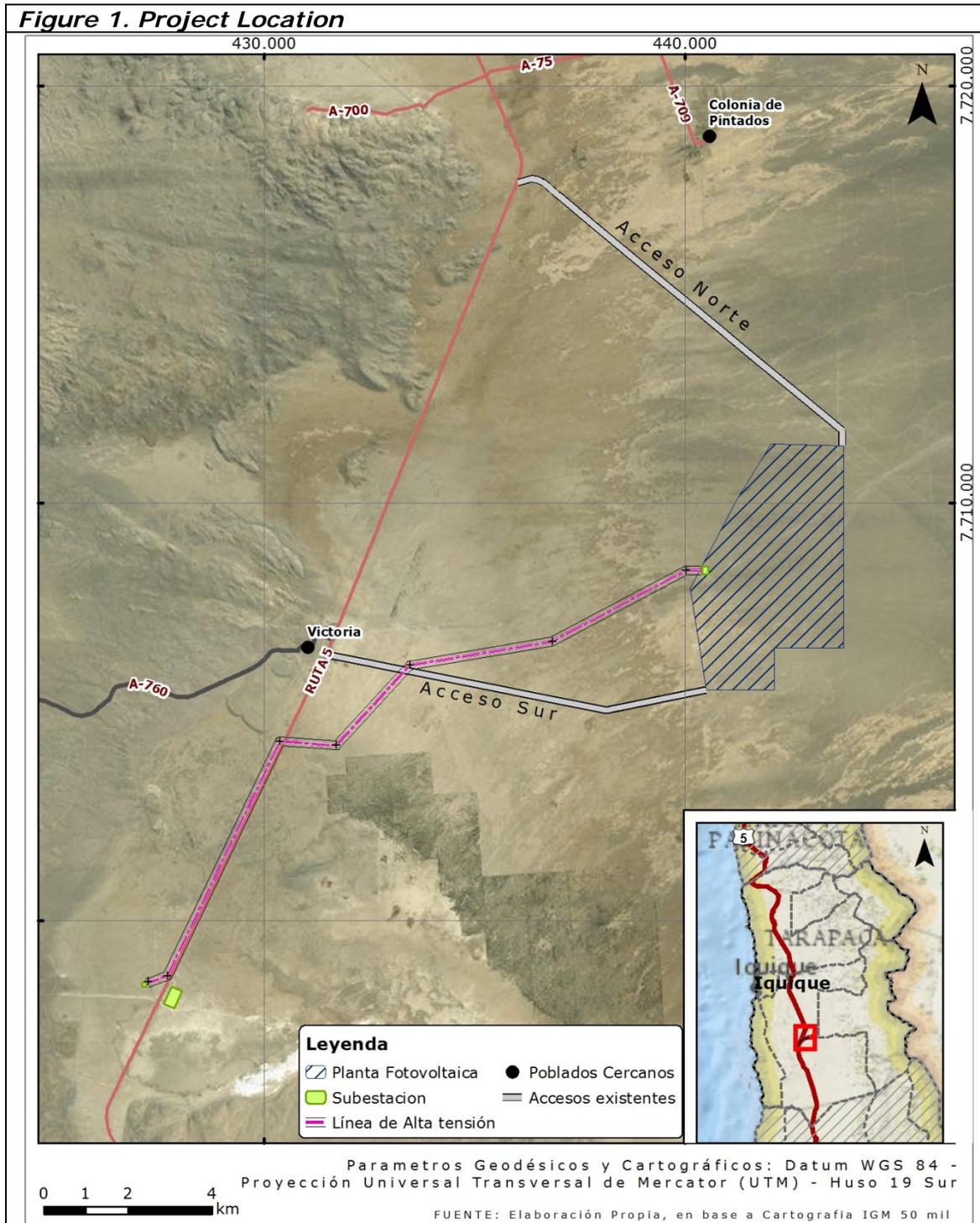
1 Introduction

As mentioned Previously In The present environmental impact study The Project "*Photovoltaic Park Cielos de Tarapacá*", of the company Cielos de Tarapacá Spa With the Construction and operation of a Photovoltaic Park with an approximate power of 600 MwAc, installation and operation of a 33 forklift substation Kv At 220 Kv, installation and operation of a disconnecting substation and the construction and operation of a high voltage line of 220 Kv About 18 km long. The project will deliver energy to the large north interconnected system through the existing Lagunas substation.

Said Project is located To 53 Kilometers In a straight line, south of The City De Pozo Almonte, in the common of Pozo Almonte, Province of Tamarugal, Region of Tarapacá. The nearest towns are painted Cologne and Victoria, both approximately 8 km from the photovoltaic park.

The following figure shows the location of the project.

Figure 1. Project Location



Source: Own Elaboration.

In the present Chapter is described The way the Project in evaluation relates to regional development policies, plans and programs Of Tarapacá as well as with the communal development Plan of Pozo Almonte, As required by article 9 ° ter of Law No. 19,300 of Bases of the environment,

amended by Law n ° 20.417/2010, and the ToRtículo 13 of the Environmental Impact Assessment System Regulation (RSEIA), Supreme Decree No. 40/2012 Of the Ministry of the Environment.

The presentation deals with the regional instruments and then the communal ones in the first part. The following were identified:

Regional instruments
Regional development strategy of the region of Tarapacá to 2020
Cultural Policy Tarapacá Region 2011-2016
Biodiversity conservation Strategy. Region of Tarapacá
Communal instruments
Community Development Plan (Pladeco Coordination Unit) of Pozo Almonte (2009-2012)

Source: Self-elaboration

In both cases Is exposed Briefly the main guidelines or objectives of each instrument and below Is Shows the relationship with the project.

2 Policies Lanes and Regional Development Program

2.1 Regional development strategy for the region of Tarapacá To L 2020

Subject to The Regional Development Strategy (ERD) In the region, Published in the year 2010, the strategic vision of development of the region of Tarapacá To Year 2020 is focused on a Region Internationalized, dynamic and developed, with leadership in the management of its process of regional decentralization, efficient, responsible, equitable, based on a healthy, educated, inclusive and integrative population and with a characteristic of human capital Competitive and relevant to the productive and service needs of the region.

In addition, in this view it is indicated the consolidation of its strategic productive areas, namely, Mining, fisheries and aquaculture, logistics, commercial, tourism and self-sustaining agricultural industries. The above Through an integration and interrelation of these through a Competitive

regional productive chain, emphasizing three sectors as development of Clusters: Mining, tourism and logistics.

To achieve development, it also proposes Be endowed with an infrastructure and services platform with international competitiveness, *With the availability of alternative energy sources* and water resources.

In order to comply with the strategic vision of regional development, is that in the ERD have been established Five Strategic basic guidelines with their respective objectives, policies, goals, action plans and indicators. The guidelines are listed below:

1. To promote human development, the generation, refinement and maintenance of human Capital with its own Cultural identity.
2. To promote Regional competitiveness, diversification and sustainable productive linkages, with environmental protection, prioritizing development poles: mining, tourism and trade.
3. To deepen the internationalization of the region towards geographical areas of Regional interest through decentralized cooperation and the Para diplomacy.
4. Decentralize the region of Tarapacá.
5. To manage public safety and Civil protection.

Respect To this, the evaluation project relates to regional development, based on the following strategic guidelines and Their Respective objectives:

Strategic guideline	General Objective	Relationship with the project
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Strategic guideline	General Objective	Relationship with the project
<p>1 promote Regional competitiveness, diversification and sustainable productive linkages, with environmental protection, prioritizing development poles: mining, tourism and trade</p>	<p>1.1 Improve the quality of the human resource according to the needs of technicians and professionals required by the region to Achieve The Regional view at 2020. 1.2 Improve educational performance at levels of Prebasics, Basic, Medium and higher 1.3 Strengthening the cultural identity of the region by valuing the contributions of the urban and rural sectors 1.4 Promote the social participation of the various actors of the region in the development issues, actively incorporating Urban and rural sectors 1.5 Improve regional health, and quality of hospital public care and healthcare network</p>	<p>The project is not related to this strategic guideline or is opposed to it.</p>
<p>(2) Promote Regional competitiveness, diversification and sustainable productive linkages, with environmental protection, prioritizing development poles: mining, tourism and trade.</p>	<p>2.1. Enhancing SME development 2.2. To complement the existing system of productive development, through projects, that satisfies the development needs of competitiveness of the strategic productive sectors 2.3. QRiorizar and/or privilege the development of science and technology projects by local universities with companies Of the region, with an impact on the competitiveness of the most relevant productive sectors 2.4. Consolidate the conformation of Clusters Mining, tourist services and logistics 2.5. Encourage the incorporation of alternatives for the supply and management of water resources and Energy in investments</p>	<p>The project It is related to objective 2.5 as it consists of a photovoltaic park and therefore is positively related to this strategic guideline of regional development, will be a contribution to the development of alternatives of energy generation by means of FNon-conventional renewable effluent. The project is not related to the other objectives or is opposed to Them.</p>

Strategic guideline	General Objective	Relationship with the project
	Public and private, advancing in the use of non-conventional renewable energies (NCRE) 2.6. Implement a system for the management of solid waste and hazardous chemicals that safeguard the environment of the region and promote the development of a public awareness of environmental protection	
(3) Deepen the internationalization of the region towards geographical areas of Regional interest through decentralized cooperation and Paradiplomacy	3.1 Develop a regional, interregional and South American regional internationalization policy based on cooperation With their respective regional parallel institutions from other countries as a form of political decentralization As the Tarapacá region has new political competencies and responses from the local and regional levels, with the participation of the sector Public and private linked to geographical areas of regional interest	The project is not related to this strategic guideline or is opposed to it.
4 Decentralize the region of Tarapacá.	4.1. Strengthening competencies for regional decentralized management	The project is not related to this strategic guideline or is opposed to it.
(5) To manage public safety and Civil protection.	5.1 Improving public safety 5.2 Strengthen and implement a civil protection system that captures the particularities of the region of Tarapacá	The project is not related to this strategic guideline or is opposed to it.

Source: Self-elaboration

2.2 Cultural Policy Tarapaca Region 2011-2016

The cultural policy of the region indicates that Tarapacá (National Council of Culture and the Arts) It is singular, where in two provinces converge diverse

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identities with religious celebrations and festivities, in an environment of natural and historical richness.

In the cultural characterization of the region that is made in the policy, in relation to the location of the Photovoltaic Park project In rural area, this document stands out for the province of Tamarugal, the following:

"The province of Tamarugal, meanwhile, has a communal head and numerous rural locations distributed in ravines, desert and Altiplano, of very few inhabitants and of great geographic dispersion. The provincial head is Pozo Almonte, whose peculiarity is to be a populated center that is born around the north-south highway, and that serves of connection between the rural towns and the regional capital. Moreover, in its territory lies all the nitrate heritage of the region, of which UNESCO has declared a World Heritage site to the former nitrate offices Humberstone And Santa Laura, both as a whole.

This territory is mainly inhabited by population of ancestry Aymara And to a lesser extent Quechua populations, which are confined to the valley of Quisma In Pozo Almonte commune. The inhabitants devote themselves mainly to agricultural work, of minor grazing and Textiles. The climate and the geographical landscape make it very difficult to inhabit outside the sectors of Quebradas. "

As far as customs and traditions are concerned, it is worth mentioning the rural towns that estimate in a hundred between settlements and hamlets in the Gorges Valleys and Foothills And although in them there are not always inhabitants, they travel to celebrate their religious festivals, being the most common ones of the corresponding patron saint, the Cross of May, the Virgin of the Carmen (especially of the Tirana), the Passover of Negroes and the Child Jesus. The carnival is held in February and is associated with the planting and animal husbandry processes.

This QOlítica Search Power The wealth of assets, channels them and makes the most of their diversity.

The vision and values of the cultural policy of the region of Tarapacá To boost it to 2016 They are reflected in three axes:

1. PromociOf the Arts: supporting training processes, Visibility and strengthening of artists and their work.
2. Citizen participation: To generate processes that strengthens the participation of the citizens of the region.
3. Cultural heritage: to disseminate and promote the knowledge and meaning of the material and immaterial heritage in the region.

Finally, the area of the project is not considered, nor is it close to any of the areas of importance and/or cultural priority.

Considering the characteristics of the project and its location, you may indicate that you do not has a direct relationship with The Objectives Or will generate or present significant adverse effects on Cultural objectives and activities of the region.

It should be mentioned that During the Phases Of the project will pay special attention to the safety and protection of the environment and Care Of those elements Historical and archaeological heritage according to what was raised in the Baseline, impact assessment and Specific measures for the equity component in the present EIA in order to fulfil the responsibility of the holder and contribute to the success of the axis on the Material Cultural heritage.

2.3 Biodiversity conservation Strategy. Region of Tarapacá.

The Biodiversity conservation strategy of the Tarapacá region was promulgated on April 30, 2008.

The overall objective of the strategy is to conserve biological diversity, promoting S(u) sustainable management, in order to safeguard its vital capacity and ensure access to its benefits for the well-being of current and future generations.

The priority sites of Tarapacá are related to what the former CONAMA recognizes, these being the "vegetation floors" of Luebert And Pliscoff As representative of the terrestrial ecosystems of the region¹. These are 127 units for All The country, characterized by particular climatic conditions, altitudinal and vegetation.

During andL Strategy Review process (Between the years 2006 and its promulgation), a selection was made of the Three Sites with First Conservation priority of the region and with greater urgency of protection, these were:

1. Salar de Call.
2. Bay Chipana.
3. Punta Patache.

On the other hand, the strategy It defined a classification of the territory according to five geographical areas present in the region which related to the following ecosystems:

- a) Coastal-Marine Coast.
- b) Cordillera de la Costa.
- c) Desert and ravines (intermediate depression).
- d) Foothills Mountains.
- e) Andean Altiplano.

For the ecosystem of desert and ravines, where the area of the project is located, there is as priority the "*Salar de Call*", The one that has a high level of endemism And for which the main pressure is the extraction of water. This will be approximately to 77 miles south of the project by Route 5.

On March 14th, 2013, the Council of Ministers for Sustainability Agreed The expansion of the National reserve of the Pampa del Tamarugal, annexing the *Salar de Call*, Which presents unique forest resources of the species *Prosopis Tamarugo* And the presence of very scarce lagoons in the world with formations of stromatolites.

¹ Estrategia para la Conservación de la Biodiversidad. Región de Tarapacá. Comisión Nacional de Medio Ambiente. Gobierno de Chile. 2008.

Considering the characteristics of the project, it may be indicated that it will not generate or present significant adverse effects on the *Salar de Call*, as it is Out of the project area to approximate distance of 77 km To the south of the photovoltaic park.

For its part, the project During Its stages of development It will pay special attention to the safety and protection of the environment and conservation of those priority elements of biodiversity that could potentially be present in the project area. In terms of vegetation, most of the project, 99.998% of the surface, It is developed in a site devoid of vegetation. According to the gathering of information on the ground only in one site of found vegetation corresponding to a pajonal (*Baccharis Juncea*, Native species No classification And without accompanying species in this finding) close to Route 5 between Victoria and the Lagunas substation, corresponding to 0, 03ha, 0.002% of the project area, with evident water stress.

The general objective of the EStrategia For the conservation of biodiversity. Region of Tarapacá is to define a Strategic and a QLAN of Regional action to five years that in a participative and consensual way, incorporates an orderly set of objectives, priorities and actions, aimed at the conservation of the biodiversity.

The following are the Specific objectives and its relationship with the project:

Objectives	Relationship with the project
Identify key components of biological diversity, in its different levels (ecosystem, species and genes), with a view to its conservation and sustainable use.	The project has an indirect relationship with this objective because The baseline studies of the project, presented in the EIA can contribute useful information on key components of biological diversity in the project site sector.
To determine the current or potential processes and	The project Does not have a relationship with this objective Nor does he contrast with him.

Objectives	Relationship with the project
activities that adversely affect the conservation of biological diversity.	It should be mentioned that Complies with the regulation that establishes the realization of UAssessment of the impacts that could be generated by their Works and Activities.
Engaging and engaging civil society through active participation in the process of formulating and executing the strategy.	The project is not related to this objective Nor does he contrast with him. However, as regardsL Purpose of Participation of civil society, Is Have held briefings As reported in chapter XXXX. Moreover, As an EIA According to The current environmental regulations (Law No. 19,300 and regulation of the SEIA, DS No. 40/2012, Ministry of the Environment, It will be the realization of a process of citizen participation, What will contribute in the exercise of engaging civil society in participation in environmental issues.
To propose priority measures for the conservation of biological diversity and the sustainable use of its components.	The project does not have a relationship with this objective Nor does he contrast with him.

Source: Self-elaboration

2.4 Regional Urban Development Plan (PRDU)

Currently The territory of The region of Tarapacá has a Regional Plan of urban development that was conceived before the separation and creation of the XV region of Arica and Parinacota. To date there are no changes in force.

In that document, the objective vision of the region aims to Ba Towards an economically, socially and culturally balanced region that recognizes its diversity, and solidarity in guiding action to the overcoming of regional poverty, a development that is based on its international business role, as well as the strengthening and diversification of its industrial base, the development of its potentialities turística Tos, the incorporation of new technologies to the agro with the corresponding insertion of the rural and

indigenous world to the development, all framed in the condition of preservation of its environmental and natural patrimony.

Regarding the foregoing, the project under evaluation is related to the PRDU, as indicated in the Following Objectives:

Objectives	Relationship with the project
To foresee and to make compatible the territorial requirements of the different activities, without exhausting the capacities that will be required in the future.	The project relates to that goal. The project Photovoltaic Being a renewable energy and clean, will contribute to(I) Increased supply without increasing emissions of gas to the AtmAtmosphere, which will contribute to a sustainable development of Region, guaranteeing the quality of life of future generations.
To preserve the best environmental conditions in the region, within the concept of sustainability.	The project relates to this objective by generating Sustainable energy by means of non-conventional renewable sources.
To integrate all the populated centers to the possibilities of development, respecting their individuality, identity, and the evolution of their cultural context.	The project relates to this objective. The project is located in a rural area of the town of Pozo Almonte, Generating jobs for the inhabitants of the populated centers of the commune Being the nearest painted and Victoria, both about 8 km away from the photovoltaic park. So also, It should be mentioned that In The area of the project does not include nearby indigenous communities so that their systems of lives and religious customs are not affected.

Source: Self-elaboration

2.5 Regional Government Plan (2010 – 2014) of the Tarapacá region

The Plan seeks to combine the interests of the various regional stakeholders around a common objective, which is to achieve the development of the region of Tarapacá. The plan's guidelines are sorted as follows:

1. Opportunities: seeks to improve the quality and equity of education, substantially improve the road and port infrastructure, and the promotion of tourism.
2. Security: Seeks to regain citizen security and ensure public order, and ensure a dignified and effective health.
3. Values: seeks recognition of cultural identity and heritage, and promotion and consolidation of the enormous tourism potential that houses the region.

From these guidelines the plan includes 5 axes, which are presented below, specifying the objectives that relate to the project.

Axis	Objectives	Relationship with the project
Axis 1 Security	<ul style="list-style-type: none"> -Increase border control. -Reduce victimization and recover public spaces for the family. -Improve the capacity to react to emergencies and disasters. 	The present project is not related to this axis nor is it opposed to it.
Axis 2 Bless you	<ul style="list-style-type: none"> -Increase and improve the hospital infrastructure. -Attract and maintain specialists in the region. -to modernize the management of the Public assistance network. -Broaden the endowment and Equipment of the network of Urgency 	The present project is not related to this axis nor is it opposed to it.
Axis 3 Education	<ul style="list-style-type: none"> -Improve the quality and fairness of education. -Extension of the educational infrastructure. -Reduce school violence (Bullying). 	The present project is not related to this axis nor is it opposed to it.
Axis 4 Infrastructure	<ul style="list-style-type: none"> -More and better road infrastructure. -Increase airport capacity. -Control of floods and irrigation. -Improve service coverage Basic 	<p>The project is positively related to this axis In What On basic services.</p> <p>The objective of the project is the generation of clean and renewable energy to be finally delivered Gives To Large North</p>

Axis	Objectives	Relationship with the project
		interconnected System (SING), thus improving the availability of basic services, specifically, electrical energy in order to meet the demand of part of the citizenry as The industry and of Eventual investment projects.
Axis 5 Tourism	-Recovery of cultural and architectural heritage. -Improvement of coastal edge and typical neighborhoods.	The present project is not related to this axis nor is it opposed to it.

Source: Self-elaboration

3 Policies Lanes and Communal development program

With respect to communal development, the following is the way in which the project relates With the objectives that The Plan of communal development 2009-2012 (Pladeco Coordination Unit) of The commune Of Pozo Almonte and the regulatory Plan (1984 Modified 2010) Of the same commune.

3.1 Communal development Plan (Pladeco Coordination Unit) of Pozo Almonte (2009-2012)

According to the provisions of the Community Development Plan Pozo Almonte, VCommunal Isión is to see the commune as a National efferent in the innovation of productive sectors, especially in tourism, agriculture and mining. The technical and labor preparation of its people allows to be a territory where you permanently look at the search Innovative of knowledge. The Territory is based on a clear protection and conservation of natural resources, mainly soil, water and biosphere.

Pozo Almonte commune identifies with the desert and its streams. It makes the desert an important productive task based on tourism, agriculture and

mining. For these purposes, it is empowered and innovated in these sectors, maintaining a clear vocation to protect natural resources as a way of granting sustainability to the development of the commune.

The objectives and strategies of the development Plan are listed below:

1. Improvement of living conditions.
2. Economic growth.
3. Provinces.

To About the above, the project under evaluation relates to the following areas and objectives, as regards:

Field	Objective	Relationship with the project
(1) Living conditions	a. To stimulate citizen participation through the creation of different instances such as support for social and community organization through the delivery of necessary infrastructure. B. Improve management, quality and opportunity in health care services. C. To achieve the necessary steps for the installation of sewers in rural areas. D. To improve the management and the educational quality, through the review of the whole teaching-learning process together between the authority, professors, proxies and students. E. Enable spaces for cultural expressions with low-cost and free	The installation of the Photovoltaic Park seeks to provide more non-conventional renewable energy (NCRE) to the increasing electrical demand of the Central interconnected system in a safe and efficient way. which will guarantee communal sustainability. In addition, solar energy as a non-polluting renewable energy contributes to atmospheric decontamination, thus It will contribute to a sustainable development in Pozo Almonte commune, as it points to a sustainable use of the energy sources available in

Field	Objective	Relationship with the project
	<p>access.</p> <p>F. Improve and increase public spaces for recreation and sport considering the climatic factor.</p> <p>G. Take action in conjunction with the community and police to reduce crime indicators.</p> <p>H. Prepare a risk map with its preventive measures.</p> <p>I. Improve actions to reduce environmental pollution caused mainly by mining.</p> <p>J. Improve and specialize the needs of recreation and sport in the commune</p>	<p>the commune.</p>
<p>b. Economic growth</p>	<ol style="list-style-type: none"> 1. Support the modernization and development of local businesses 2. Promote the productive sectors of trade, tourism, agriculture and mining 3. To create support infrastructure for productive sectors such as 4. Habilitation of an industrial and commercial park for Pozo Almonte. 	<p>The execution of the project does not interfere with the development of the other productive sectors, generating a greater number of jobs for the inhabitants of Pozo Almonte.</p>
<p>c. Provinces.</p>	<ol style="list-style-type: none"> 1. To prepare regulatory plans for communal locations and especially the Of Pozo Almonte. 	<p>Not related to the project</p>

Source: own elaboration

4 Conclusions

According to the revision In the different policies, plans and development programmes, in conformity with article 13 of the RSEIA, it can be said that in general, the project at both regional and communal level does not interfere in the development of its objectives.

However, the implementation of the project, manages to be a contribution to the development of energy generation through non-conventional renewable sources in a sustainable way (regional development Strategy Tarapacá region, Regional plan for urban Development, regional government plan, Pladeco Coordination Unit Pozo Almonte) and To be a contribution to the conservation of the biodiversity of the region.

Due to the characteristics of the project, it can be said that it will not generate significant adverse effects on the cultural objectives and activities of the region, as well as urban growth and protection of species and protected population.