




	Environmental Impact Study Wind Energy Park Vientos Neuquinos   File 01- Air quality	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 01.01</b>	<b>Subfactor Air quality</b>
<b>CONSTRUCTION</b>	<b>STAGE</b>
<b>Absolute percentage of affectation</b>	<b>9.62 %</b>
<b>Impacting Actions</b>	Soil Movement Circulation and operation of vehicles Operation of electric generator equipment Grubbing and clearance of the site Filling, leveling, scarification activity and re planting. Inadequate waste management
<b>Location.</b>	Project Area Internal and access roads to the Project Rural Post (sporadic occupancy)
<b>Impacts.</b>	Diffused emissions of particulate material (airborne dust generation) Diffused emissions of combustion gases (greenhouse effect)
<b>Description of impacts</b>	Diffuse emissions of particulate materials will be generated: During summer months, soil dryness and winds will increase airborne dust ( natural soil wind-blow) and the sight might be hindered together with the inhalation of particulate material. The modification of the Air Quality will be potentially perceived only by rural homes, workers and passers-by. Diffused emissions of combustion gases (greenhouse effect) will be very low and will be rapidly diluted by the winds in the area. However, its cumulative affectation will enhance the ozone layer.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Placement of road sins (circulation maximum speed) Moisten internal roads in winter Conduct Vehicle Technical Test to all the vehicles. Call off all tasks during days with strong winds .
<b>Description of Mitigation Measures</b>	It is advisable to conduct an Air Quality Study in the work environment (identification of Particulate Material PM10)
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium

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<b>Impact N° 01.02</b>	<b>Subfactor Air quality</b>
<b>CONSTRUCTION</b>	<b>OPERATION AND MAINTENANCE</b>
<b>Affection Absolute percentage</b>	<b>4.37 %</b>
<b>Impacting Actions</b>	Circulation and operation of vehicles wind energy generation process
<b>Location.</b>	Project Area
<b>Impacts.</b>	Diffused emissions of particulate material (airborne dust generation) Diffused emissions of combustion gases (greenhouse effect) Generation of noise. The reduction in the greenhouse effect (GEI) by wind energy
<b>Description of impacts</b>	Diffuse emissions of particulate material by vehicle circulation and operation. Given the low quantity of vehicles used during maintenance tasks, these will be of little importance. Diffuse emissions Greenhouse effect gases will be very low (despicable) due to little vehicle circulation. As a compensation for negative affectation, there will be generated a positive affectation of the sub factor. Wind Energy Park operation will reduce the generation of GEI due to the use of renewable sources of energy.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	None
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply

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<b>Impact N° 01.03</b>	<b>Subfactor Air quality</b>
<b>CONSTRUCTION</b>	<b>DEPARTURE</b>
<b>Affection Absolute percentage</b>	<b>12.40 %</b>
<b>Impacting Actions</b>	Circulation and operation of vehicles Inadequate waste management Wind energy generation use Demolition/withdrawal of foundations and permanent installations.
<b>Location.</b>	Project Area Internal and access roads to the Project Rural Post (sporadic occupancy)
<b>Impacts.</b>	Diffused emissions of particulate material (airborne dust generation) Diffused emissions of combustion gases (greenhouse effect)
<b>Description of impacts</b>	During work activities there will be diffuse emissions of particulate material Diffuse emissions of combustion gases are originated by the circulation and operation of vehicles. They will be very low and rapidly diluted by winds. The culmination of the Wind Energy Park operation will affect the energetic matrix which may be replaced by other sources of non-renewable energy increasing the GEI generation with a negative impact over the sub factor.
<b>Preventing and Mitigation Measures</b>	
<b>Description of Prevention Measures</b>	Placement of road signs (circulation maximum speed) Moisten internal roads in winter Conduct Vehicle Technical Test to all the vehicles. Call off all tasks during days with strong winds .
<b>Description of Mitigation Measures</b>	It is advisable to conduct an Air Quality Study in the work environment (identification of Particulate Material PM10)
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium



Client. Vientos Neuquinos I S.A.	EIA PEBC 001/14
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System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium:	Inert												
Factor	Air												
Subfactor	Quality of air												
Soil Movement		-28	-1	2	2	4	1	1	1	1	4	2	4
Circulation and operation of vehicles		-22	-1	1	1	4	1	1	1	1	4	4	1
Operation of electric generator equipment		-19	-1	1	1	4	1	1	1	1	4	1	1
Construction of permanent facilities.		-19	-1	1	1	4	1	1	1	1	4	1	1
Grubbing and clearance of the site		-27	-1	2	2	4	1	1	1	1	4	1	4
Filling, leveling and scarification process.		0											
Inadequate waste management		-14	-1	1	1	2	1	1	1	1	1	1	1
Soil Compacting		0											

Individual Affection Matrix Construction Stage

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium:	Inert												
Factor	Air												
Subfactor	Quality of air												
Circulation and operation of vehicles		-16	-1	1	1	4	1	1	1	1	1	1	1
Presence of permanent facilities.		0											
Operation of the wind energy turbines		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		47	1	4	4	4	4	4	2	4	4	4	1



Individual Affection Matrix Operation and Maintenance Stage





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System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Inert												
Factor	Air												
Subfactor	Quality of air												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		-22	-1	1	1	4	1	1	1	1	4	4	1
Filling, leveling and scarification process.		0											
Inadequate waste management		-14	-1	1	1	2	1	1	1	1	1	1	1
<b>WIND ENERGY GENERATION PROCESS</b>		<b>-47</b>	<b>-1</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>1</b>
Demolition/withdrawal of foundations and permanent installations.		-25	-1	2	2	4	1	1	1	1	4	1	2
Unemployment		0											

**Individual Affection Matrix Departure Stage**

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 02 Surface water	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 02.01</b>	<b>Subfactor Surface water</b>
<b>CONSTRUCTION</b>	<b>STAGE</b>
<b>Affection Absolute percentage</b>	<b>0.67%</b>
<b>Impacting Actions</b>	Filling, leveling, scarification activity and re planting. Soil Movement Inadequate waste management
<b>Location.</b>	Runoffs
<b>Impacts.</b>	Modifications in the drainage patterns of temporary water courses (runoffs)
<b>Description of impacts</b>	If a modification in the drainage pattern of temporary water courses(runoffs) happens by inadequate road construction and/or facility placements, water erosion processes that degrade the soil may be generated. As long as soil movement generates these situations, the impact probability over the surface runoff will be boosted. Other construction element to consider are the trenches for wiring inside the Wind Park. If trenches for wiring remain open for long time, they will constitute a channeling way of surface runoff, modifying drainage patterns and favoring water erosion processes. Inadequate waste management caused by its chemical modification might generate affection over the sub factor. Given the temporal nature of water courses such potential affection will remain in its bed and it is unlikely that may reach a course and/or permanent surface water reservoir.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	There must be an adequate road and drainage construction plan to avoid runoff affection and temporary or permanent water accumulation. It must be developed a quick close of trenches for wiring. Implement a Waste Management Program
<b>Description of Mitigation Measures</b>	After heavy rain visual inspections should be done to determine temporary water courses drainage and in a way to take the necessary compensation measures.
<b>Priority</b>	Low
<b>Expected Effectiveness</b>	Medium

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 02 Surface water	
	Client. Vientos Neuquinos I S.A.	
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 02.02</b>	<b>Subfactor Surface water</b>
<b>CONSTRUCTION</b>	<b>DEPARTURE</b>
<b>Affection Absolute percentage</b>	<b>1.26 %</b>
<b>Impacting Actions</b>	Filling, leveling, scarification activity and re planting. Inadequate waste management
<b>Location.</b>	Runoffs
<b>Impacts.</b>	Modifications in the drainage patterns of temporary water courses (runoffs)
<b>Description of impacts</b>	Moving away underground electric lines and foundations may favor the negative affectionation of the sub factor by the modification in runoff drainage patterns. This situation will be compensated by filling, leveling and scarification activities planned by the Company. Inadequate waste management caused by its chemical modification might generate affectionation over the sub factor. Given the temporal nature of water courses such potential affectionation will remain in its bed and it is unlikely that may reach a course and/or permanent surface water reservoir.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Implement a Waste Management Program
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Low
<b>Expected Effectiveness</b>	Medium

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Inert												
Factor	Water												
Subfactor	Surface water												
Soil Movement		-20	-1	2	2	2	2	1	1	1	1	1	1
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		25	1	2	2	4	1	1	1	1	4	1	2
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		-14	-1	1	1	2	1	1	1	1	1	1	1
Soil Compacting		0											

**Individual Affectionation Matrix Construction Stage**





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System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Inert												
Factor	Water												
Subfactor	Surface water												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		25	1	2	2	4	1	1	1	1	4	1	2
Inadequate waste management		-14	-1	1	1	2	1	1	1	1	1	1	1
<b>WIND ENERGY GENERATION PROCESS</b>		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

**Individual Affection Matrix Departure Stage**





	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 03 Underground	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 03.01</b>	<b>Subfactor Underground water</b>
<b>CONSTRUCTION</b>	<b>STAGE</b>
<b>Affection Absolute percentage</b>	<b>1.04 %</b>
<b>Impacting Actions</b>	Inadequate waste management
<b>Location.</b>	Project Area
<b>Impacts.</b>	Chemical and physical modification of the underground water resource
<b>Description of impacts</b>	Chemical modification of the underground water resource might be due to the filtration of incorrectly disposed solids, semi-solids and liquids to the phreatic layer.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Have a Temporal Waste Management Site adequately built. Adequate waste management training for the personnel. Monitor sewage effluents daily.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Low
<b>Expected Effectiveness</b>	Medium

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium:	Inert												
Factor	Water												
Subfactor	Underground water												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		-14	-1	1	1	2	1	1	1	1	1	1	1
Soil Compacting		0											

**Individual Affection Matrix Construction Stage**

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 04-Topography	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 04.01</b>	<b>Subfactor Topography</b>
<b>CONSTRUCTION</b>	<b>STAGE</b>
<b>Absolute percentage of affectation</b>	<b>2.09 %</b>
<b>Impacting Actions</b>	Soil Movement Filling, leveling, scarification activity and re planting. Construction of permanent facilities.
<b>Location.</b>	Project area destined to the storage of materials and supplies; crane work platforms; wind energy foundations; roads; trenches for wiring; drainage and embankments; temporal and permanent facilities. Wiring Sector within the Wind Energy Park.
<b>Impacts.</b>	Modification of topographic characteristics. Modifications in the drainage patterns of temporary water courses (runoffs)
<b>Description of impacts</b>	Topographic characteristics will be modified by soil movement tasks. The filling, leveling and scarification tasks to be done when the work is finished mostly for the negative affectations over the factor.
<b>Prevention and Mitigation Measures</b>	
<b>Description of Prevention Measures</b>	There must be an adequate planning of drainage construction. The construction of internal roads, must be done trying to reduce alterations in topography and geographical relief.
<b>Description of Mitigation Measures</b>	After heavy rain visual inspections should be done to determine temporary water courses drainage and in a way to take the necessary compensatory measures.
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium

<b>Impact N° 04.02</b>	<b>Subfactor Topography</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Absolute percentage of affectation over</b>	<b>0.80 %</b>
<b>Impacting Actions</b>	Filling, leveling and scarification process. Demolition/withdrawal of foundations and permanent installations.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Reconstitution of geoforms
<b>Description of impacts</b>	The reconstruction of geoforms due to filling, leveling and scarification tasks, and to the withdrawal of facilities of the different affected areas.
<b>Prevention and Mitigation Measures</b>	
<b>Description of Prevention Measures</b>	Does not apply
<b>Description of Mitigation Measures</b>	Does not apply
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply





System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Inert												
Factor	Soil												
Subfactor	Topography												
Soil Movement		-33	-1	1	4	2	4	4	1	1	4	4	2
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		-24	-1	1	1	2	4	4	1	1	1	4	2
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		29	1	1	2	2	4	1	1	4	4	4	2
Inadequate waste management		0											
Soil Compacting		0											



Individual Affection Matrix Construction Stage

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Inert												
Factor	Soil												
Subfactor	Topography												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		29	1	1	2	2	4	1	1	4	4	4	2
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		-22	-1	1	1	2	4	4	1	1	1	2	2
Unemployment		0											

Individual Affection Matrix Construction Stage

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 05 Soil Science	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
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Impact N° 05.01	Subfactor Soil Science
STAGE	CONSTRUCTION
<b>Absolute percentage of affectation over</b>	<b>6.79 %</b>
<b>Impacting Actions</b>	Soil Movement Circulation and operation of vehicles Construction of permanent facilities. Grubbing and clearance of the site Filling, leveling, scarification and re planting activities. Inadequate waste management Soil Compacting
<b>Location.</b>	Project Area Internal and access roads to the Project
<b>Impacts.</b>	Modifications of the physical and chemical soil characteristics. Increase of erosive processes Elimination of the vegetal cover
<b>Description of impacts</b>	The chemical characteristics of the soil may be modified due to the potential affectation by hydro carbon affectations for contingencies during the work tasks or by inadequate waste and sewage effluent management with the subsequent dumping in the field. The physical characteristics of the soil may be modified due to soil movement tasks, filling, leveling, scarification and compacting tasks. Permanent facility constructions will imply the physical modification of soil spots during the period in which the Wind Energy Park is in function. The elimination of the vegetative cover by grubbing and clearance of the site might increase the erosion processes caused by water and rain which degrade the edaphic layer.
<b>Prevention and Mitigation Measures</b>	
<b>Description of Prevention Measures</b>	The proper conservation of rain drainage system must be performed. It must be developed a quick close-up of trenches for wiring and founding excavations Perform the sampling and analysis prior to the beginning of the Construction Stage at 50% execution of the work and at the end of it with the parameter identification as Total Petroleum Hydro carbon (HTP); lead, copper, zinc and chrome.
<b>Description of Mitigation Measures</b>	There must be an adequate planning of road and drainage constructions. Once the wind energy turbines have been installed in the foundations, they will be fixed with a concrete grout and will be covered with the soil previously extracted (first the non-organic soil and the, if there exists, with the organic soil of edaphic selection, if it is possible to do that selection) Scarification must be done in the surrounding of each foundation. Monitor sewage effluents daily. The stored soil must be covered with a polyethylene of low density to avoid wind-blow
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium

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Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
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<b>Impact N° 05.02</b>	<b>Subfactor Soil Science</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Absolute percentage of affection over</b>	<b>0.92 %</b>
<b>Impacting Actions</b>	Filling, leveling, scarification and re planting activities. Inadequate waste management
<b>Location.</b>	Project Area Internal and access roads to the Project
<b>Impacts.</b>	Modifications of the physical and chemical soil characteristics. Restitution of the vegetative cover
<b>Description of impacts</b>	During the work activities there will be generated waste that might be inadequately stored and/or disposed. However, this negative affection will be widely compensated by the filling, leveling, scarification and re planting activities with native species that will enable the restitution of the vegetative cover by the reestablishment of the soil surface horizon of the potentially affected areas.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Perform the sampling and analysis prior to the beginning of the Construction Stage at 50% execution of the work and at the end of it with the parameter identification as Total Petroleum Hydro carbon (HTP); lead, copper, zinc and chrome.
<b>Description of Mitigation Measures</b>	Monitor sewage effluents daily.
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium



System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Inert												
Factor	Soil												
Subfactor	Soil Science												
Soil Movement		-19	-1	1	2	2	2	2	1	1	1	1	2
Circulation and operation of vehicles		-22	-1	1	1	1	2	2	1	4	1	2	4
Operation of electric generator equipment		0											
Construction of permanent facilities.		-18	-1	1	2	1	2	2	1	1	1	1	2
Grubbing and clearance of the site		-22	-1	2	2	2	2	2	1	1	1	1	2
Filling, leveling and scarification process.		23	1	1	2	2	4	1	1	1	4	1	2
Inadequate waste management		-15	-1	1	1	2	1	1	1	1	1	1	2
Soil Compacting		-18	-1	1	2	1	2	2	1	1	1	1	2

**Individual Affection Matrix Construction Stage**



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System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Inert												
Factor	Soil												
Subfactor	Soil Science												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		23	1	1	2	2	4	1	1	1	4	1	2
Inadequate waste management		-15	-1	1	1	2	1	1	1	1	1	1	2
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

Individual Affection Matrix Construction Stage

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 06- Erosion	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 06.01</b>	<b>Subfactor Erosion</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Absolute percentage of affectation over</b>	<b>1.64 %</b>
<b>Impacting Actions</b>	Soil Movement Grubbing and clearance of the site Filling, leveling, scarification and re planting activities.
<b>Location.</b>	Project Area Internal and access roads to the Project
<b>Impacts.</b>	Increase of erosive processes Elimination of the vegetal cover
<b>Description of impacts</b>	The elimination of the vegetative cover and soil movement by grubbing and clearance of the site might increase the erosion processes caused by water and rain which degrade the edaphic layer. The actions of filling, leveling, scarification and re planting with native species will affect the site in a positive way reducing and removing potential erosive processes.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	The proper conservation of rain drainage system must be performed. It must be developed a quick close-up of trenches for wiring and founding excavations
<b>Description of Mitigation Measures</b>	There must be an adequate planning of road and drainage constructions. Once the wind energy turbines have been installed in the foundations, they will be fixed with a concrete grout and will be covered with the soil previously extracted (first the non-organic soil and the, if there exists, with the organic soil of edaphic selection, if it is possible to do that selection) Scarification must be done in the surrounding of each foundation. The stored soil must be covered with a polyethylene of low density to avoid wind-blowing
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium



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<b>Impact N° 06.02</b>	<b>Subfactor Erosion</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Absolute percentage of affection over</b>	<b>0.23 %</b>
<b>Impacting Actions</b>	Filling, leveling, scarification and re planting activities. Demolition/withdrawal of foundations and permanent installations.
<b>Location.</b>	Project Area Internal and access roads to the Project
<b>Impacts.</b>	Modifications of the physical and chemical soil characteristics. Restitution of the vegetative cover
<b>Description of impacts</b>	Demolition work and withdrawal of permanent facilities and foundations imply the soil movement whose inadequate management have a negative impact in the soil erosion. Filling, leveling, scarification activities and re planting with native species will enable the restitution of the vegetative cover by the reestablishment of the soil surface horizon of the potentially affected areas avoiding erosive processes.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	It must be developed a quick close-up of trenches for wiring and founding excavations
<b>Description of Mitigation Measures</b>	Once the wind turbines, wires and foundations are withdrawn, excavations that contained them must be filled. Scarification must be done in the surrounding of each foundation. The stored soil must be covered with a polyethylene of low density to avoid wind-blowing
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Inert												
Factor	Soil												
Subfactor	Erosion												
Soil Movement		-27	-1	1	2	1	2	2	1	4	4	4	2
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		-24	-1	1	2	1	2	2	1	1	4	4	2
Filling, leveling and scarification process.		29	1	1	2	2	4	1	1	4	4	4	2
Inadequate waste management		0											
Soil Compacting		0											



**Individual Affection Matrix Construction Stage**





	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 06- Erosion	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Inert												
Factor	Soil												
Subfactor	Erosion												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		23	1	1	2	2	4	1	1	1	4	1	2
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		-21	-1	2	2	1	2	2	1	1	1	1	2
Unemployment		0											

**Individual Affection Matrix Construction Stage**



	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L.		www.scudelati.com.ar

<b>Impact N° 07.01</b>	<b>Subfactor Restriction to the soil use.</b>
<b>CONSTRUCTION</b>	<b>STAGE</b>
<b>Affection Absolute percentage</b>	<b>0.07 %</b>
<b>Impacting Actions</b>	Construction of permanent facilities. Filling, leveling, scarification activity and re planting.
<b>Location.</b>	Project Area
<b>Impacts.</b>	A) Modification for soil use.
<b>Description of impacts</b>	The area of the project is currently used for extensive farming which will suffer modification due to work activities and facility construction in the area of the project. Filling, leveling and scarification activities and re-planting will enable the soil in the place of wind energy turbines to recover the vegetative cover which may be used by extensive farming activities, compatible with the generation of wind energy.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Notify users in the area of the project (individuals that use the area for extensive farming activities) in advance of scheduled tasks. Place safety signs and posters near the sectors where tasks are developed warning about the work activity. Design procedures of entrance/circulation in the project area that indicate the obligation to have wooden gates and the maintenance of fencing for cattle raising to avoid cattle breakout. Loose cattle in the area of the project must be communicated to the owner of the site.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	High

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 07.02</b>	<b>Subfactor Restriction to the soil use.</b>
<b>CONSTRUCTION</b>	<b>OPERATION AND MAINTENANCE</b>
<b>Affectation Absolute percentage</b>	<b>2.25 %</b>
<b>Impacting Actions</b>	Presence of permanent facilities.
<b>Location.</b>	Project Area
<b>Impacts.</b>	A) Modification for soil use.
<b>Description of impacts</b>	The presence of permanent facilities (included roads) will modify slightly the soil use since they are compatible with the extensive farming activity developed in the area of the project.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Maintenance of perimeter fencing in the sectors of electric shock risks to avoid entry of livestock. Road signaling with maximum speed posters and warning about loose livestock in the area. Design procedures of entrance/circulation in the project area that indicate the obligation to have wooden gates and the maintenance of fencing for cattle raising to avoid livestock breakout. Loose cattle in the area of the project must be communicated to the owner of the site.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	High

<b>Impact N° 07.03</b>	<b>Subfactor Restriction to the soil use.</b>
<b>CONSTRUCTION</b>	<b>DEPARTURE</b>
<b>Affectation Absolute percentage</b>	<b>6.66 %</b>
<b>Impacting Actions</b>	Filling, leveling, scarification activity and re planting. Demolition/withdrawal of foundations and permanent installations.
<b>Location.</b>	Project Area
<b>Impacts.</b>	A) Modification for soil use.
<b>Description of impacts</b>	Demolition and withdrawal of foundations will modify the soil physical characteristics and its recovery to original conditions. Filling, leveling, scarification activities and re planting with native species will enable the restitution of the vegetative cover by the reestablishment of the soil surface horizon of the potentially affected areas and their recovery to original conditions.
<b>Preventing and Mitigation Measures</b>	
<b>Description of Prevention Measures</b>	Does not apply
<b>Description of Mitigation Measures</b>	Does not apply
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply



	Environmental Impact Study Wind Energy Park Vientos Neuquinos I		
	Client: Vientos Neuquinos I S.A.	EIA PEBC 001/14	
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar	

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium:	Inert												
Factor	Soil												
Subfactor	Restrictions of use:												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		-30	-1	1	2	4	4	4	1	1	4	4	1
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		31	1	2	2	4	4	2	1	1	4	4	1
Inadequate waste management		0											
Soil Compacting		0											

Individual Affection Matrix Construction Stage



System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium:	Inert												
Factor	Soil												
Subfactor	Soil Use												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		-16	-1	1	1	1	4	1	1	1	1	1	1
Operation of the wind energy turbines		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											

Individual Affection Matrix Operation and Maintenance Stage

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L.		www.scudelati.com.ar

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Inert												
Factor	Soil												
Subfactor	Restrictions of use:												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		28	1	1	2	4	4	2	1	1	4	4	1
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		30	1	1	2	4	4	4	1	1	4	4	1
Unemployment		0											

**Individual Affection Matrix Departure Stage**

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 08 - Herbaceous Stratum - Habitat quality	
	Client. Vientos Neuquinos I S.A.	
Author Scudelati & Asociados S.R.L	www.scudelati.com.ar	

Impact N° 08.01	Subfactor Herbaceous Stratum - Habitat quality
CONSTRUCTION	STAGE
<b>Affection Absolute percentage</b>	<b>1.04 %</b>
<b>Impacting Actions</b>	Grubbing and clearance of the site Filling, leveling, scarification activity and re planting. Inadequate waste management
<b>Location.</b>	Project Area
<b>Impacts.</b>	Herbaceous Stratum Affection
<b>Description of impacts</b>	This negative affection may be due to: - grubbing and clearance of the site; and the construction of permanent facilities that impact in the life of the species living in the affected sites. - inadequate waste management may generated spill of hydro carbon byproducts that might affect species. At the end of the Construction Stage, activities of filling, leveling and scarification of the soil in the trenches , temporal roads and in the surroundings of the foundations, representing a positive affection over the sub factor that will favor the re planting with native species.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Avoid unnecessary grubbing. There must be a waste management plan and a temporal waste dumping site.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium

Impact N° 08.02	Subfactor Herbaceous Stratum - Habitat quality
STAGE	DEPARTURE
<b>Affection Absolute percentage</b>	<b>3.10 %</b>
<b>Impacting Actions</b>	Filling, leveling, scarification activity and re planting. Inadequate waste management Demolition/withdrawal of foundations and permanent installations.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Herbaceous Stratum Affection
<b>Description of impacts</b>	Inadequate waste management during demolition tasks and the withdrawal of foundations may generate negative affectations similar to those in the Constructions Stage. Demolition/withdrawal of foundations and permanent facilities with the subsequent actions of filling, leveling , scarification and re planting with native species will enable the restoration of the vegetative cover by reestablishment of the affected stratum in the Construction Stage.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	There must be a waste management plan and a temporal waste dumping site.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Low
<b>Expected Effectiveness</b>	Medium





Client. Vientos Neuquinos I S.A.	EIA PEBC 001/14
Author Scudelati & Asociados S.R.L	www.scudelati.com.ar

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Vegetation												
Subfactor	Herbaceous Stratum (Habitat)												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		-18	-1	1	1	2	2	1	1	1	4	1	1
Filling, leveling and scarification process.		21	1	1	1	2	4	1	1	1	4	1	2
Inadequate waste management		-17	-1	1	2	2	1	1	1	1	1	2	1
Soil Compacting		0											

Individual Affection Matrix Construction Stage

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Vegetation												
Subfactor	Herbaceous Stratum (Habitat)												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		21	1	1	1	2	4	1	1	1	4	1	2
Inadequate waste management		-17	-1	1	2	2	1	1	1	1	1	2	1
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		23	1	2	1	1	4	2	1	1	4	1	1
Unemployment		0											

Individual Affection Matrix Departure Stage

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 09 - Herbaceous Stratum - Biodiversity	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 09.01</b>	<b>Subfactor Herbaceous Stratum -Biodiversity</b>
<b>STAGE</b>	<b>STAGE</b>
<b>Affectation Absolute percentage</b>	<b>0.15 %</b>
<b>Impacting Actions</b>	Grubbing and clearance of the site Filling, leveling, scarification activity and re planting.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Herbaceous Stratum Affectation
<b>Description of impacts</b>	This negative affectation is generated by the grubbing and clearance of the site that might affect the biodiversity indicators of the area for the loss of any species in particular. At the end of the Construction Stage, activities of filling, leveling and scarification of the soil in the trenches , temporal roads and in the surroundings of the foundations, representing a positive affectation over the sub factor that will favor the re planting with native species.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Avoid unnecessary grubbing.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium

<b>Impact N° 09.02</b>	<b>Subfactor Herbaceous Stratum -Biodiversity</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affectation Absolute percentage</b>	<b>2.30 %</b>
<b>Impacting Actions</b>	Filling, leveling, scarification activity and re planting.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Herbaceous Stratum Affectation
<b>Description of impacts</b>	Filling, leveling, scarification activities and re-planting with native species constitute a positive affectation over the sub factor given that they will enable the restitution of the vegetative cover by reestablishing the stratum affected in the Construction stage and the reconstitution of species potentially affected.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Does not apply
<b>Description of Mitigation Measures</b>	Does not apply
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply





Client. Vientos Neuquinos I S.A.	EIA PEBC 001/14
Author Scudelati & Asociados S.R.L	www.scudelati.com.ar

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Vegetation												
Subfactor	Herbaceous Stratum (Habitat)												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		-18	-1	1	1	1	2	2	1	1	4	1	1
Filling, leveling and scarification process.		16	1	1	1	1	4	1	1	1	1	1	1
Inadequate waste management		0											
Soil Compacting		0											

Individual Affection Matrix Construction Stage

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Vegetation												
Subfactor	Herbaceous Stratum (Habitat Quality)												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		20	1	1	1	1	4	2	1	1	4	1	1
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

Individual Affection Matrix Departure Stage

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Vegetation												
Subfactor	File 10 - Herbaceous Stratum - Species in												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
Soil Compacting		0											



**Individual Affection Matrix Construction Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Vegetation												
Subfactor	Bush Stratum (Habitat Quality)												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											

**Individual Affection Matrix Operation and Maintenance Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Vegetation												
Subfactor	Herbaceous Stratum - Species in danger												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
Wind energy generation process		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

**Individual Affection Matrix Departure Stage**

	Study on Environmental Awareness Wind Energy Station Vientos Neuquinos I File 11 - Bush Stratum - Habitat quality	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 11.01</b>	<b>Subfactor Herbaceous Stratum - Habitat quality</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Absolute % of Affection over Subfactor</b>	<b>0.97 %</b>
<b>Impacting Actions</b>	Grubbing and clearance of the site Filling, leveling, scarification activity and re planting. Inadequate waste management
<b>Location.</b>	Project Area
<b>Impacts.</b>	Herbaceous Stratum Affection
<b>Description of impacts.</b>	This negative affection may be due to: - site grubbing and clearing tasks; and the construction of permanent facilities that impact in the life of the species that life in the sites affected -inadequate waste management that may cause spills of hydro carbon byproducts that may affect species. At the end of the Construction Stage, soil filling, leveling and scarification will be done in trenches, temporary roads and the surroundings of foundations and facilities, representing a positive affection over the sub factor that will favor re planting with indigenous species.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of preventing and Prevention.</b>	Avoid unnecessary grubbing. There must be a waste management plan and a temporal temporary dumping site of waste.
<b>Description of Mitigation measures</b>	None
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium

<b>Impact N° 11.02</b>	<b>Subfactor Herbaceous Stratum - Habitat quality</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Absolute % of Affection over Subfactor</b>	<b>5.17 %</b>
<b>Impacting Actions</b>	Filling, leveling, scarification activity and re planting. Demolition/withdrawal of foundations and permanent facilities.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Herbaceous Stratum Affection
<b>Description of impacts</b>	Demolition/withdrawal of foundations and permanent facilities following the tasks of filling, leveling, scarification and re planting with native species that will affect in a positive way since the will enable the restitution of the vegetative cover by reestablishing the stratum affected in the Construction Stage
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing measures</b>	Does not apply
<b>Description of Mitigation measures</b>	Does not apply
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply





System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Effect	Periodicity	Recoverability	
Medium:	Biotic												
Factor	Vegetation												
Subfactor	Shrub layer Habitat quality												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		-18	-1	1	1	2	2	1	1	1	4	1	1
Filling, leveling and scarification process.		21	1	1	1	2	4	1	1	1	4	1	2
Inadequate waste management		-16	-1	1	1	4	1	1	1	1	1	1	1
Soil Compacting		0											

Individual Affection Matrix Construction Stage



System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Subfactor	Habitat quality												
Medium:	Biotic												
Factor	Vegetation												
	Shrub layer												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		21	1	1	1	2	4	1	1	1	4	1	2
Inadequate waste management		0											
Wind energy generation process		0											
Demolition/withdrawal of foundations and permanent facilities		24	1	2	1	4	1	2	1	1	1	4	2
Unemployment		0											

Individual Affection Matrix Departure Stage

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 12 - Bush Stratum - Biodiversity	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

Impact N° 12.01	Subfactor Bush Stratum - Biodiversity
STAGE	CONSTRUCTION
<b>Affectation Absolute percentage</b>	<b>0.15 %</b>
<b>Impacting Actions</b>	Grubbing and clearance of the site Filling, leveling, scarification activity and re planting.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Herbaceous Stratum Affectation
<b>Description of impacts</b>	This negative affectation is generated by the grubbing and clearance of the site that might affect the biodiversity indicators of the area for the loss of any species in particular. At the end of the Construction Stage, activities of filling, leveling and scarification of the soil in the trenches , temporal roads and in the surroundings of the foundations, representing a positive affectation over the sub factor that will favor the re planting with native species.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Avoid unnecessary grubbing.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium

Impact N° 12.02	Subfactor Bush Stratum - Biodiversity
STAGE	DEPARTURE
<b>Affectation Absolute percentage</b>	<b>2.30 %</b>
<b>Impacting Actions</b>	Filling, leveling, scarification activity and re planting.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Herbaceous Stratum Affectation
<b>Description of impacts</b>	Filling, leveling , scarification activities and re-planting with native species constitute a positive affectation over the sub factor given that they will enable the restitution of the vegetative cover by reestablishing the stratum affected in the Construction stage and the reconstitution of species potentially affected.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Does not apply
<b>Description of Mitigation Measures</b>	Does not apply
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 12 - Bush Stratum - Biodiversity	
	Client. Vientos Neuquinos I S.A.	
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium:	Biotic												
Factor	Vegetation												
Subfactor	Bush Stratum (Habitat Quality)												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		-18	-1	1	1	2	2	1	1	1	4	1	1
Filling, leveling and scarification process.		16	1	1	1	1	4	1	1	1	1	1	1
Inadequate waste management		0											
Soil Compacting		0											

**Individual Affection Matrix Construction Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Vegetation												
Subfactor	Bush Stratum (Habitat Quality)												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		20	1	1	1	1	4	2	1	1	4	1	1
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

**Individual Affection Matrix Departure Stage**



Client. Vientos Neuquinos I S.A.	EIA PEBC 001/14
Author Scudelati & Asociados S.R.L	www.scudelati.com.ar

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Vegetation												
Subfactor	Bush Stratum - Species in danger												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
Soil Compacting		0											



**Individual Affection Matrix Construction Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Vegetation												
Subfactor	Bush Stratum - Species in danger												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											

**Individual Affection Matrix Operation and Maintenance Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Vegetation												
Subfactor	Bush Stratum - Species in danger												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											



**Individual Affection Matrix Departure Stage**

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 22 - Avifauna - Species in danger	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

Impact N° 22.01	Subfactor Birds (Species in danger)
STAGE	OPERATION AND MAINTENANCE
Affection Absolute percentage	2.68 %
Impacting Actions	Operation of the wind energy turbines
Location.	Project Area
Impacts.	Affection of species in danger
Description of impacts	Potential collisions caused by the operation of wind turbines will cause the potential death of exemplars in danger which prowl the area of the wind park.
<b>Preventing and Mitigation Measures.</b>	
Description of Prevention Measures	A Bird Monitoring Program will be implemented.
Description of Mitigation Measures	Walks around the Area of the Project should be taken , with the aim of identifying and eliminating possible (i) focal points of waste that might attract birds of prey and/or carrion eating species; (ii) sites where there may be temporary accumulation of water that might attract species that use the sites for nesting and/or food: (iii) the existence of nests in high places of the wind turbines. If any exemplars of species in danger is found damaged and/or dead in the area of the project, the operation of the project must come to a halt until actions are taken to avoid such incidents.
Priority	High
Expected Effectiveness	Medium

Impact N° 22.02	Subfactor Birds (Species in danger)
STAGE	DEPARTURE
Affection Absolute percentage	1.95 %
Impacting Actions	Dismantling of the wind turbines.
Location.	Project Area
Impacts.	Affection of species in danger
Description of impacts	Motorized vehicles may cause collisions and potential dangers. Demolition and moving away of the facilities will be positive affectations that will diminish the risk to the exemplars of species in danger that prowl around the area of the project.
<b>Preventing and Mitigation Measures.</b>	
Description of Prevention Measures	None
Description of Mitigation Measures	None
Priority	Does not apply
Expected Effectiveness	Does not apply





	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Birds (Species in danger)												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		-19	-1	2	2	2	1	1	1	1	1	1	1
Inadequate waste management		0											
<b>WIND ENERGY GENERATION PROCESS</b>		0											



**Individual Affection Matrix Operation and Maintenance Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Birds (Species in danger)												
Dismantling of the wind turbines.		17	1	1	1	1	4	1	2	1	1	1	1
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
<b>WIND ENERGY GENERATION PROCESS</b>		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											



**Individual Affection Matrix Departure Stage**

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 15 - Mammals - Behavior	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 15.01</b>	<b>Subfactor Mammals - Behavior</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affectation Absolute percentage</b>	<b>4.33 %</b>
<b>Impacting Actions</b>	Soil Movement Circulation and operation of vehicles Operation of electric generator equipment Grubbing and clearance of the site Filling, leveling and scarification process. Inadequate waste management
<b>Location.</b>	Project Area
<b>Impacts.</b>	Behavior modification
<b>Description of impacts</b>	In the case of the project the behavior modification by anthropic influence in the zone might be due to: - vehicle circulation that might cause the death of any exemplar by collision (specially cattle). - inadequate disposition of domestic waste, which constitute attractive point of attention for rodents (rats, mice) and the fauna in general; and may cause in modifications in their diets and possible diseases. - noise generation caused by human beings and vehicle circulation. This will have a negative impact in the sub factor, chasing away temporarily the species of the zone. It is important to say that the species that live in the zone have adapted to the anthropic influence by the presence of rural inhabitants contiguous to the area of the project. Filling, leveling and scarification activities subsequent to the construction of the Wind Energy Park will have a positive affectation since they will enhance the recovering of the habitat of those species that have moved in a temporary way.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Drive at low speed in the project surroundings. Control noise emissions of electric wind turbines requiring preventing maintenance tasks . Require that vehicles enter the VTV site so that it is possible to control the reduction of noise emissions. If livestock is seen in the site , elements to keep them out of the facilities should be used ( electric fences or protecting walls and report immediately ) Waste Management Procedures will be implemented. It is strictly forbidden the hunting of mammals in the Area of the Project. All access paths and roads should be signaled adequately with road posters that indicate loose livestock.
<b>Description of Mitigation Measures</b>	Reach an agreement with the livestock proprietors withing the area of the Project to avoid disturbances in their habitual actions.
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	High

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 15.02</b>	<b>Subfactor Mammals - Behavior</b>
<b>STAGE</b>	<b>OPERATION AND MAINTENANCE</b>
<b>Affectation Absolute percentage</b>	<b>6.20 %</b>
<b>Impacting Actions</b>	Circulation and operation of vehicles Operation of the wind energy turbines Inadequate waste management
<b>Location.</b>	Project Area
<b>Impacts.</b>	Behavior modification
<b>Description of impacts</b>	The modification in mammals behavior will be due to the inadequate domestic waste, which constitute attractive point of attention for rodents (rats, mice) and the fauna in general; and may cause in modifications in their diet and possible diseases. Even though, wind energy turbines get along with livestock farming and the traffic will be very little because there will be a small quantity of vehicles in the area of the project, there might be accidents that harm the mammals.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Drive at low speed in the project surroundings. If livestock is seen in the site, elements to keep them out of the facilities should be used ( electric fences or protecting walls and report to their proprietors immediately ) Waste Management Procedures will be implemented. It is strictly forbidden the hunting of mammals in the Area of the Project. All access paths and roads should be signaled adequately with road posters that indicate loose livestock. Monitor mammals using the Biota Base Line as a guide.
<b>Description of Mitigation Measures</b>	Perimeter fences and safety posters (speed reduction) will mitigate the risks of electrocution and trampling. Reach an agreement with livestock proprietors for the maintenance plan of the facilities to avoid disturbances in their daily labor.
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	High

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 15.03</b>	<b>Subfactor Mammals - Behavior</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affection Absolute percentage</b>	<b>0.46 %</b>
<b>Impacting Actions</b>	Dismantling of the wind turbines. Circulation and operation of vehicles Demolition/withdrawal of foundations and permanent installations.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Animal Behavior modification
<b>Description of impacts</b>	During the activities in the work, the circulation and operation of vehicles will cause noise and potential risks of trampling which will affect negatively in animals' behavior. Dismantling , demolition and moving away the wind turbines, the activities of soil filling, leveling and scarification will be positive impacts of the sub factor. When reducing human presence in the site, natural areas will be favored.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Drive at low speed in the project surroundings. If livestock is seen in the site , elements to keep them out of the facilities should be used ( electric fences or protecting walls and report to their proprietors immediately ) Require that vehicles enter the VTV site so that it is possible to control the reduction of noise emissions. It is strictly forbidden the hunting of mammals in the Area of the Project. All access paths and roads should be signaled adequately with road posters that indicate loose livestock.
<b>Description of Mitigation Measures</b>	Reach an agreement with livestock proprietors for the maintenance plan of the facilities to avoid disturbances in their daily labor.
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	High



System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Biotic												
Factor	Fauna												
Subfactor	Mammals (Behavior)												
Soil Movement		-16	-1	1	1	4	1	1	1	1	1	1	1
Circulation and operation of vehicles		-18	-1	1	1	2	2	1	1	1	1	4	1
Operation of electric generator equipment		-16	-1	1	1	4	1	1	1	1	1	1	1
Construction of permanent facilities.		0											
Grubbing and clearance of the site		-16	-1	1	1	4	1	1	1	1	1	1	1
Filling, leveling and scarification process.		24	1	1	1	2	4	1	2	1	4	4	1
Inadequate waste management		-16	-1	1	1	4	1	1	1	1	1	1	1
Soil Compacting		0											

Individual Affection Matrix Construction Stage

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Biotic												
Factor	Fauna												
Subfactor	Mammals (Behavior)												
Circulation and operation of vehicles		-16	-1	1	1	4	1	1	1	1	1	1	1
Presence of permanent facilities.		0											
Operation of the wind energy turbines		-14	-1	1	1	2	1	1	1	1	1	1	1
Inadequate waste management		-14	-1	1	1	2	1	1	1	1	1	1	1
WIND ENERGY GENERATION PROCESS		0											



Individual Affection Matrix Operation and Maintenance Stage





Client. Vientos Neuquinos I S.A.	EIA PEBC 001/14
Author Scudelati & Asociados S.R.L	www.scudelati.com.ar

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Mammals (Behavior)												
Dismantling of the wind turbines.		36	1	2	4	2	4	4	1	1	4	4	2
Circulation and operation of vehicles		-16	-1	1	1	4	1	1	1	1	1	1	1
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		-16	-1	1	1	4	1	1	1	1	1	1	1
Unemployment		0											

Individual Affection Matrix Departure Stage

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L.		www.scudelati.com.ar

<b>Impact N° 16.01</b>	<b>Subfactor Mammals - Habitat quality</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affectation Absolute percentage</b>	<b>4.33 %</b>
<b>Impacting Actions</b>	Soil Movement Circulation and operation of vehicles Operation of electric generator equipment Grubbing and clearance of the site Filling, leveling and scarification process. Inadequate waste management
<b>Location.</b>	Project Area
<b>Impacts.</b>	Habitat Modification
<b>Description of impacts</b>	Modifications by anthropic influence in habitat quality in the zone may be due to: - grubbing and clearance of the site and soil movement which may destroy animals' shelters (dens) and food sectors with the subsequent temporal displacement to other habitats. - the inadequate disposition of domestic waste, which constitute attractive focal points for rodents (rats, mice). - vehicle circulation and operation of electric equipment which may generate noise emission disturbances for the species. Filling, leveling and scarification activities subsequent to the construction of the Wind Energy Park will have a positive affectation since they will enhance the recovering of the habitat affected.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Unnecessary grubbing should be avoided. Ensure not to affect sites where there is evidence of dens. Waste Management Procedures will be implemented. It is strictly forbidden the affectation on purpose of sites with dens. Keep maintenance tasks in electric generators which tend to reduce noise emissions. Require that vehicles enter the VTV site so that it is possible to control the reduction of noise emissions.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 16.02</b>	<b>Subfactor Mammals - Habitat quality</b>
<b>STAGE</b>	<b>OPERATION AND MAINTENANCE</b>
<b>Affectation Absolute percentage</b>	<b>1.97 %</b>
<b>Impacting Actions</b>	Operation of the wind energy turbines
<b>Location.</b>	Project Area
<b>Impacts.</b>	Habitat Modification
<b>Description of impacts</b>	Even though, wind energy turbines get along with livestock farming and the traffic will be very little because there will be a small quantity of vehicles in the area of the project, accidents that harm the animals might happen if they enter zones where electric incidents might happen.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	There must be and keep in good conditions of maintenance perimeter fencing to reduce the risk of electrocution of the species.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium

<b>Impact N° 16.03</b>	<b>Subfactor Mammals - Habitat quality</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affectation Absolute percentage</b>	<b>4.71 %</b>
<b>Impacting Actions</b>	Dismantling of the wind turbines. Filling, leveling, scarification activity and re planting. Inadequate waste management
<b>Location.</b>	Project Area
<b>Impacts.</b>	Habitat restitution.
<b>Description of impacts</b>	Dismantling, demolition and moving away the wind turbines, the activities of soil filling, leveling and scarification, as well as re planting with native species will be positive impacts of the sub factor. The reduction of human presence in the site will favor habitat restitution (redefinition of the sheltering and food sites) reestablishing natural areas. As a negative affectation related there is the incorrect disposition of waste with the potential influence over habitat during work tasks.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Waste Management Procedures will be implemented. Require that vehicles enter the VTV site so that it is possible to control the reduction of noise emissions.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium





System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Biotic												
Factor	Fauna												
Subfactor	Habitat quality												
Soil Movement		-16	-1	1	1	4	1	1	1	1	1	1	1
Circulation and operation of vehicles		-18	-1	1	1	2	2	1	1	1	1	4	1
Operation of electric generator equipment		-16	-1	1	1	4	1	1	1	1	1	1	1
Construction of permanent facilities.		0											
Grubbing and clearance of the site		-16	-1	1	1	4	1	1	1	1	1	1	1
Filling, leveling and scarification process.		24	1	1	1	2	4	1	2	1	4	4	1
Inadequate waste management		-16	-1	1	1	4	1	1	1	1	1	1	1
Soil Compacting		0											

Individual Affection Matrix Construction Stage

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Biotic												
Factor	Fauna												
Subfactor	Habitat quality												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		-14	-1	1	1	2	1	1	1	1	1	1	1
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											

Individual Affection Matrix Operation and Maintenance Stage



System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Habitat quality												
Dismantling of the wind turbines.		36	1	2	4	2	4	4	1	1	4	4	2
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		24	1	1	1	2	4	1	2	1	4	4	1
Inadequate waste management		-19	-1	2	2	2	1	1	1	1	1	1	1
<b>WIND ENERGY GENERATION PROCESS</b>		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

Individual Affection Matrix Departure Stage



System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Mammals (Biodiversity)												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
Soil Compacting		0											

**Individual Affection Matrix Construction Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Mammals (Biodiversity)												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											

**Individual Affection Matrix Operation and Maintenance Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Mammals (Biodiversity)												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

**Individual Affection Matrix Departure Stage**



Client. Vientos Neuquinos I S.A.	EIA PEBC 001/14
Author Scudelati & Asociados S.R.L	www.scudelati.com.ar

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Mammals (Species in danger)												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
Soil Compacting		0											



**Individual Affection Matrix Construction Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Mammals (Species in danger)												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											



**Individual Affection Matrix Operation and Maintenance Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Mammals (Species in danger)												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											



**Individual Affection Matrix Departure Stage**

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 19 - Bird life - Behavior	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar



<b>Impact N° 19.01</b>	<b>Subfactor Birds (Behavior)</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affection Absolute percentage</b>	<b>4.55%</b>
<b>Impacting Actions</b>	Soil Movement Circulation and operation of vehicles Operation of electric generator equipment Grubbing and clearance of the site Filling, leveling, scarification activity and re planting. Inadequate waste management
<b>Location.</b>	Project Area
<b>Impacts.</b>	Behavior modification
<b>Description of impacts</b>	Species behavior may be affected by the human presence and vehicle traffic that might cause collisions and potential death of exemplars. Wind turbine and machinery noise during soil movement might chased them away. Inadequate waste management may create food points and producing modification in their diet and developing diseases. Grubbing and clearing of the site may reduce food points. It is important to say that the species that live in the zone have adapted to the anthropic influence by the presence of rural inhabitants contiguous to the area of the project. At the end of the stage, the tasks of filling, leveling and scarification will restore the food sites affected.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	All access paths and roads should be signaled adequately with road posters that indicate bird life. It is strictly forbidden the hunting of birds in the Area of the Project. Waste Management Procedures will be implemented. Drive at low speed in the project surroundings. Reduce vegetation grubbing sites Require that vehicles enter the VTV site so that it is possible to control the reduction of noise emissions. Control noise emissions of electric wind turbines requiring preventing maintenance tasks .
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 19.02</b>	<b>Subfactor Birds (Behavior)</b>
<b>STAGE</b>	<b>OPERATION AND MAINTENANCE</b>
<b>Affectation Absolute percentage</b>	<b>6.90 %</b>
<b>Impacting Actions</b>	Circulation and operation of vehicles Operation of the wind energy turbines Inadequate waste management
<b>Location.</b>	Project Area
<b>Impacts.</b>	Bird life behavior modification
<b>Description of impacts</b>	Noise generation and potential collisions caused by the operation of wind turbines will potentially cause the modification of food sites. Even though there will be few people during this stage, the presence of open rubbish dumps, the generation of domestic waste and their inadequate disposal create attractive food points for birds of prey and carrion-eating birds. If these focal points are located near the basis of the wind turbines, they or the equipment tower may cause collisions with the exemplars' legs.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	A Bird Monitoring Program will be implemented. Waste Management Procedures will be implemented. Bird hunting is strictly forbidden. All access paths and roads should be signaled adequately with road posters that indicate bird life.
<b>Description of Mitigation Measures</b>	Walks around the Area of the Project should be taken , with the aim of identifying and eliminating possible (i) focal points of waste that might attract birds of prey and/or carrion eating species; (ii) sites where there may be temporary accumulation of water that might attract species that use the sites for nesting and/or food.
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L.		www.scudelati.com.ar

<b>Impact N° 19.03</b>	<b>Subfactor Birds (Behavior)</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affectation Absolute percentage</b>	<b>0.46 %</b>
<b>Impacting Actions</b>	Dismantling of the wind turbines. Circulation and operation of vehicles Demolition/withdrawal of foundations and permanent installations.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Bird life behavior modification
<b>Description of impacts</b>	During the circulation and operation of vehicles will produce noise and potential risks of trampling which will affect negatively in animals' behavior. The modification in bird life behavior will be affected positively by the noise reduction produced by the source of emission (wind energy turbines) Wind turbine dismantling will have a positive affectation if the sources of possible collisions with the birds are eliminated.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	All access paths and roads should be signaled adequately with road posters that indicate bird life. It is strictly forbidden the hunting of birds in the Area of the Project. Waste Management Procedures will be implemented. Drive at low speed in the project surroundings. Reduce vegetation grubbing sites Require that vehicles enter the VTV site so that it is possible to control the reduction of noise emissions. Control noise emissions of electric wind turbines requiring preventing maintenance tasks .
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L.		www.scudelati.com.ar



System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Biotic												
Factor	Fauna												
Subfactor	Birds (Behavior)												
Soil Movement		-16	-1	1	1	4	1	1	1	1	1	1	1
Circulation and operation of vehicles		-18	-1	1	1	2	2	1	1	1	1	4	1
Operation of electric generator equipment		-16	-1	1	1	4	1	1	1	1	1	1	1
Construction of permanent facilities.		0											
Grubbing and clearance of the site		-19	-1	2	1	4	1	1	1	1	1	1	1
Filling, leveling and scarification process.		24	1	1	1	2	4	1	2	1	4	4	1
Inadequate waste management		-16	-1	1	2	2	1	1	1	1	1	1	1
Soil Compacting		0											

Individual Affection Matrix Construction Stage

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Biotic												
Factor	Fauna												
Subfactor	Birds (Behavior)												
Circulation and operation of vehicles		-16	-1	1	1	4	1	1	1	1	1	1	1
Presence of permanent facilities.		0											
Operation of the wind energy turbines		-19	-1	2	2	2	1	1	1	1	1	1	1
Inadequate waste management		-14	-1	1	1	2	1	1	1	1	1	1	1
WIND ENERGY GENERATION PROCESS		0											



Individual Affection Matrix Operation and Maintenance Stage





	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L.		www.scudelati.com.ar

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Birds (Behavior)												
Dismantling of the wind turbines.		36	1	2	4	2	4	4	1	1	4	4	2
Circulation and operation of vehicles		-16	-1	1	1	4	1	1	1	1	1	1	1
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		-16	-1	1	1	4	1	1	1	1	1	1	1
Unemployment		0											

Individual Affection Matrix Departure Stage



	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 20 - Bird life - Habitat quality	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L.		www.scudelati.com.ar

<b>Impact N° 20.01</b>	<b>Subfactor Birds life (habitat quality)</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affectation Absolute percentage</b>	<b>4.55%</b>
<b>Impacting Actions</b>	Soil Movement Circulation and operation of vehicles Operation of electric generator equipment Grubbing and clearance of the site Filling, leveling, scarification activity and re planting. Inadequate waste management
<b>Location.</b>	Project Area
<b>Impacts.</b>	Habitat modification
<b>Description of impacts</b>	Bird life might be affected by grubbing and clearing of the site (specially bushes) connected to the construction of the different areas causing their temporary displacement to other habitat for nesting. The noise generated by the vehicles that do soil work and the operation of the wind turbines may modify habitat quality. Inadequate waste management might affect quality of life in the sites where the species live. At the end of the stage, the tasks of filling, leveling and scarification will restore the habitat sites affected by the project.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	All access paths and roads should be signaled adequately with road posters that indicate bird life. It is strictly forbidden the hunting of birds in the Area of the Project. Waste Management Procedures will be implemented. Require that vehicles enter the VTV site so that it is possible to control the reduction of noise emissions. Control noise emissions of electric wind turbines requiring preventing maintenance tasks.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 20 - Bird life - Habitat quality	
	Client. Vientos Neuquinos I S.A.	
Author Scudelati & Asociados S.R.L	www.scudelati.com.ar	

Impact N° 20.02	Subfactor Birds life (habitat quality)
STAGE	OPERATION AND MAINTENANCE
Affection Absolute percentage	4.51 %
Impacting Actions	Operation of the wind energy turbines
Location.	Project Area
Impacts.	Habitat modification
Description of impacts	Wind energy turbine operation will cause potential modification of the habitat due to the risks of incidents related to collisions with wind turbines.
<b>Preventing and Mitigation Measures.</b>	
Description of Prevention Measures	A Bird Monitoring Program will be implemented.
Description of Mitigation Measures	Walks around the Area of the Project should be taken, with the aim of identifying and eliminating possible (i) focal points of waste that might attract birds of prey and/or carrion eating species; (ii) sites where there may be temporary accumulation of water that might attract species that use the sites for nesting and/or food: (iii) the existence of nests in high places of the wind turbines.
Priority	High
Expected Effectiveness	Medium

Impact N° 20.03	Subfactor Birds life (habitat quality)
STAGE	DEPARTURE
Affection Absolute percentage	6.89 %
Impacting Actions	Dismantling of the wind turbines. Filling, leveling, scarification activity and re planting.
Location.	Project Area
Impacts.	Habitat Quality Modification
Description of impacts	Demolition and moving away foundations as well as re planting of native species will be positive affectations that will favor the return of birds to their habitat. When reducing human presence in the site, habitat modification will be favored.
<b>Preventing and Mitigation Measures.</b>	
Description of Prevention Measures	None
Description of Mitigation Measures	None
Priority	Does not apply
Expected Effectiveness	Does not apply

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 20 - Bird life - Habitat quality		
	Cient. Vientos Neuquinos I S.A.		
Author Scudelati & Asociados S.R.L			www.scudelati.com.ar

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Biotic												
Factor	Fauna												
Subfactor	Habitat quality												
Soil Movement		-16	-1	1	1	4	1	1	1	1	1	1	1
Circulation and operation of vehicles		-18	-1	1	1	2	2	1	1	1	1	4	1
Operation of electric generator equipment		-16	-1	1	1	4	1	1	1	1	1	1	1
Construction of permanent facilities.		0											
Grubbing and clearance of the site		-19	-1	2	1	4	1	1	1	1	1	1	1
Filling, leveling and scarification process.		24	1	1	1	2	4	1	2	1	4	4	1
Inadequate waste management		-16	-1	1	2	2	1	1	1	1	1	1	1
Soil Compacting		0											

Individual Affection Matrix Construction Stage

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Biotic												
Factor	Fauna												
Subfactor	Habitat quality												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		-32	-1	2	2	2	4	4	1	1	4	4	2
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											



Individual Affection Matrix Operation and Maintenance Stage



Client. Vientos Neuquinos I S.A.	EIA PEBC 001/14
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System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Habitat quality												
Dismantling of the wind turbines.		36	1	2	4	2	4	4	1	1	4	4	2
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		24	1	1	1	2	4	1	2	1	4	4	1
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

Individual Affection Matrix Departure Stage

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 21- Bird life- Biodiversity	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 21.01</b>	<b>Subfactor Bird life - Biodiversity</b>
<b>STAGE</b>	<b>OPERATION AND MAINTENANCE</b>
<b>Affectation Absolute percentage</b>	<b>2.68 %</b>
<b>Impacting Actions</b>	Operation of the wind energy turbines
<b>Location.</b>	Project Area
<b>Impacts.</b>	Biodiversity affectation
<b>Description of impacts</b>	Potential collisions caused by the operation of wind energy turbines will produce the potential modification of the biodiversity by migration or death of exemplars.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	A Bird Monitoring Program will be implemented.
<b>Description of Mitigation Measures</b>	Walks around the Area of the Project should be taken, with the aim of identifying and eliminating possible (i) focal points of waste that might attract birds of prey and/or carrion eating species; (ii) sites where there may be temporary accumulation of water that might attract species that use the sites for nesting and/or food; (iii) the existence of nests in high places of the wind turbines.
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium

<b>Impact N° 21.02</b>	<b>Subfactor Bird life - Biodiversity</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affectation Absolute percentage</b>	<b>1.95%</b>
<b>Impacting Actions</b>	Dismantling of the wind turbines.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Biodiversity affectation
<b>Description of impacts</b>	Demolition and moving away foundations as well as re planting of native species will favor the return of birds to their habitat. When reducing human presence in the site, habitat modification will be favored.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	None
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply





	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Biotic												
Factor	Fauna												
Subfactor	Birds (Bio diversity)												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		-19	-1	2	2	2	1	1	1	1	1	1	1
Inadequate waste management		0											
<b>WIND ENERGY GENERATION PROCESS</b>		0											

Individual Affectation Matrix Operation and Maintenance Stage

	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Biotic												
Factor	Fauna												
Subfactor	Birds (Bio diversity)												
Dismantling of the wind turbines.		17	1	1	1	1	4	1	2	1	1	1	1
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
<b>WIND ENERGY GENERATION PROCESS</b>		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											



Individual Affectation Matrix Departure Stage

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 22 - Avifauna - Species in danger	
	Client. Vientos Neuquinos I S.A.	
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

Impact N° 22.01	Subfactor Birds (Species in danger)
STAGE	OPERATION AND MAINTENANCE
<b>Affectation Absolute percentage</b>	<b>2.68 %</b>
<b>Impacting Actions</b>	Operation of the wind energy turbines
<b>Location.</b>	Project Area
<b>Impacts.</b>	Affectation of species in danger
<b>Description of impacts</b>	Potential collisions caused by the operation of wind turbines will cause the potential death of exemplars in danger which prowl the area of the wind park.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	A Bird Monitoring Program will be implemented.
<b>Description of Mitigation Measures</b>	Walks around the Area of the Project should be taken , with the aim of identifying and eliminating possible (i) focal points of waste that might attract birds of prey and/or carrion eating species; (ii) sites where there may be temporary accumulation of water that might attract species that use the sites for nesting and/or food: (iii) the existence of nests in high places of the wind turbines. If any exemplar of species in danger is found damaged and/or dead in the area of the project, the operation of the project must come to a halt until actions are taken to avoid such incidents.
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium

Impact N° 22.02	Subfactor Birds (Species in danger)
STAGE	DEPARTURE
<b>Affectation Absolute percentage</b>	<b>1.95 %</b>
<b>Impacting Actions</b>	Dismantling of the wind turbines.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Affectation of species in danger
<b>Description of impacts</b>	Motorized vehicles may cause collisions and potential dangers. Demolition and moving away of the facilities will be positive affectations that will diminish the risk to the exemplars of species in danger that prowl around the area of the project.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	None
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply





	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 22 - Avifauna - Species in danger	
	Client. Vientos Neuquinos I S.A.	EIA PEBC 001/14
Author Scudelati & Asociados S.R.L.	www.scudelati.com.ar	

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Birds (Species in danger)												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		-19	-1	2	2	2	1	1	1	1	1	1	1
Inadequate waste management		0											
<b>WIND ENERGY GENERATION PROCESS</b>		0											

**Individual Affection Matrix Operation and Maintenance Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Birds (Species in danger)												
Dismantling of the wind turbines.		17	1	1	1	1	4	1	2	1	1	1	1
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
<b>WIND ENERGY GENERATION PROCESS</b>		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											



**Individual Affection Matrix Departure Stage**

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 23 - Microfauna - Behavior	
	Client. Vientos Neuquinos I S.A.	
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 23.01</b>	<b>Subfactor Microfauna - Behavior</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affectation Absolute percentage</b>	<b>2.24 %</b>
<b>Impacting Actions</b>	Soil Movement Grubbing and clearance of the site Filling, leveling, scarification activity and re planting. Inadequate waste management
<b>Location.</b>	Project Area
<b>Impacts.</b>	Behavior modification
<b>Description of impacts</b>	Microfauna behavior modification may be because - grubbing/clearing of the site and soil movement that may destroy food and shelter sites. - inadequate disposition of domestic waste, which constitute focal points of proliferation of vectors like flies, cockroaches, among others. Filling, leveling and scarification activities subsequent to the construction of the Wind Energy Park will have a positive affectation since they will enhance the recovering of the habitat affected.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Implement a Waste Management Procedure
<b>Description of Mitigation Measures</b>	An adequate plan prior to the beginning of the work will ensure the least intervention over the project zone.
<b>Priority</b>	Low
<b>Expected Effectiveness</b>	Low

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium:	Biotic												
Factor	Fauna												
Subfactor	Microfauna (Behavior)												
Soil Movement		-15	-1	1	1	2	2	1	1	1	1	1	1
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		-16	-1	1	1	4	1	1	1	1	1	1	1
Filling, leveling and scarification process.		17	1	1	1	2	4	1	1	1	1	1	1
Inadequate waste management		-16	-1	1	1	4	1	1	1	1	1	1	1
Soil Compacting		0											

Individual Affectation Matrix Construction Stage

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 24 - Microfauna - Habitat quality	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 24.01</b>	<b>Subfactor Microfauna - habitat quality</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affectation Absolute percentage</b>	<b>2.98 %</b>
<b>Impacting Actions</b>	Soil Movement Grubbing and clearance of the site Filling, leveling, scarification activity and re planting. Inadequate waste management Soil Compacting
<b>Location.</b>	Project Area
<b>Impacts.</b>	Habitat modification
<b>Description of impacts</b>	Microfauna habitat modification may be because - grubbing/clearing of the site and soil movement that may destroy food, breeding and shelter sites. - inadequate disposition of domestic waste, which constitute focal points of proliferation of vectors like flies, cockroaches, among others. Filling, leveling and scarification activities subsequent to the construction of the Wind Energy Park will have a positive affectation since they will enhance the recovering of the habitat affected.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	None
<b>Description of Mitigation Measures</b>	An adequate plan prior to the beginning of the work will ensure the least intervention over the project zone.
<b>Priority</b>	Low
<b>Expected Effectiveness</b>	Low

<b>Impact N° 24.02</b>	<b>Subfactor Microfauna - habitat quality</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affectation Absolute percentage</b>	<b>3.90 %</b>
<b>Impacting Actions</b>	Filling, leveling, scarification activity and re planting. Demolition/withdrawal of foundations and permanent installations.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Habitat restitution.
<b>Description of impacts</b>	Moving facilities away followed by filling, leveling and scarification tasks will enhance habitat restitution.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	None
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply



Client. Vientos Neuquinos I S.A.	EIA PEBC 001/14
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System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium:	Biotic												
Factor	Fauna												
Subfactor	Microfauna (habitat quality)												
Soil Movement		-16	-1	1	1	4	1	1	1	1	1	1	1
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		-16	-1	1	1	4	1	1	1	1	1	1	1
Filling, leveling and scarification process.		24	1	2	2	2	4	1	2	1	2	1	1
Inadequate waste management		-16	-1	1	1	4	1	1	1	1	1	1	1
Soil Compacting		-16	-1	1	1	4	1	1	1	1	1	1	1

Individual Affection Matrix Construction Stage

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium:	Biotic												
Factor	Fauna												
Subfactor	Microfauna (habitat quality)												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		17	1	1	1	2	4	1	1	1	1	1	1
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		17	1	1	1	2	4	1	1	1	1	1	1
Unemployment		0											

Individual Affection Matrix Departure Stage



System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Microfauna (Biodiversity)												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
Soil Compacting		0											

**Individual Affection Matrix Construction Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Microfauna (Biodiversity)												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											

**Individual Affection Matrix Operation and Maintenance Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Microfauna (Biodiversity)												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

**Individual Affection Matrix Departure Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Microfauna (Species in danger)												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
Soil Compacting		0											



**Individual Affection Matrix Construction Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Microfauna (Species in danger)												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											

**Individual Affection Matrix Operation and Maintenance Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	Microfauna (Species in danger)												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

**Individual Affection Matrix Departure Stage**

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I		
	Client. Vientos Neuquinos I S.A.	EIA PEBC 001/14	
Author Scudelati & Asociados S.R.L	www.scudelati.com.ar		

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	PROTECTED NATURAL AREAS												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
Soil Compacting		0											



**Individual Affection Matrix Construction Stage**

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	PROTECTED NATURAL AREAS												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											

**Individual Affection Matrix Operation and Maintenance Stage**



System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Biotic												
Factor	Fauna												
Subfactor	PROTECTED NATURAL AREAS												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

**Individual Affection Matrix Departure Stage**



	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 28 Visual Impact	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 28.01</b>	<b>Subfactor Visual Impact</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affection Absolute percentage</b>	<b>5.82 %</b>
<b>Impacting Actions</b>	Soil Movement Construction of permanent facilities. Grubbing and clearance of the site Filling, leveling, scarification activity and re planting. Inadequate waste management
<b>Location.</b>	Project Area
<b>Impacts.</b>	Landscape affection
<b>Description of impacts</b>	The negative affection of the visual perception will be due to soil movement activities (airborne dust), grubbing and clearing of the site ( airborne dust) and the construction work of permanent facilities which, given the location of the project, will only be perceived by occasional passers-by (rural posts) Inadequate waste management may produce wind-blowing of bags and papers which are dispersed in the surrounding deteriorating the landscape resource of the site. Filling, leveling, scarification and re planting tasks will mitigate the emission of particulate material once the work has finished.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Moisten roads and work areas. Stockpile domestic waste in containers with lids and a net to avoid their spreading and wind-blow.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Low
<b>Expected Effectiveness</b>	Low



	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 28 Visual Impact	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L.		www.scudelati.com.ar

<b>Impact N° 28.02</b>	<b>Subfactor Visual Impact</b>
<b>STAGE</b>	<b>OPERATION AND MAINTENANCE</b>
<b>Affectation Absolute percentage</b>	<b>9.86 %</b>
<b>Impacting Actions</b>	Inadequate waste management Presence of permanent facilities.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Affectation over air traffic Affectation of visual perception ( rural settlers and occasional passers-by) by the presence of the Wind Energy Park.
<b>Description of impacts</b>	Landscape perception is estimated as subjective from the aesthetic point of view, something that may result disturbing for some, may result nice for others. However, for the analysis its affectation has been considered negative for those who pass by in the surroundings of the Wind Project. According to this, it is related to: <ul style="list-style-type: none"> <li>- presence, height, number and distribution of wind energy turbines.</li> <li>- permanent facilities</li> <li>- blade rotation speed.</li> <li>- color.</li> </ul> The affectation over air traffic will be related to the height and color of the wind turbines. If it is similar to the context, it will be difficult to be seen with the potential risk of accidents. The affectation over passers-by and occasional rural settlers may potentially be due to disturbances caused by the solar reflection originated by the wind turbine surface characteristics. Even though waste generation will be low, inadequate management will generate and affect negatively on the landscape.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Implement a Waste Management Procedure
<b>Description of Mitigation Measures</b>	Keep the beaconing system in the towers to avoid air traffic accidents. Blade extreme points must be painted with reflective paint that enable the visualization for birds and airplanes. Anti reflex paint should be used in the blades to reduce their reflection in very bright days.
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	High

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 28 Visual Impact	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 28.03</b>	<b>Subfactor Visual Impact</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affection Absolute percentage</b>	<b>2.41 %</b>
<b>Impacting Actions</b>	Dismantling of the wind turbines. Filling, leveling, scarification activity and re planting. Inadequate waste management Demolition/withdrawal of foundations and permanent installations.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Landscape affectation over air traffic Affectation of visual perception ( rural settlers and occasional passers-by) by the presence of the Wind Energy Park. Affectation over road traffic
<b>Description of impacts</b>	The affectation over visual perception will be due to wind turbine dismantling activities, demolition and moving permanent facilities away, circulation and operation of vehicles and all the work related to the restoration of the Area to its original conditions. This will be compensated by the filling, leveling and scarification tasks of the site tending to the recovering of its original characteristics. The affectation over air traffic, bird life, population and traffic is considered positive, due to the absence of permanent facilities and the dismantling of wind turbines. As in the Construction Stage, inadequate waste management will affect the subfactor negatively
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Implement a Waste Management Program
<b>Description of Mitigation Measures</b>	Does not apply
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium



Client. Vientos Neuquinos I S.A.	EIA PEBC 001/14
Author Scudelati & Asociados S.R.L	www.scudelati.com.ar

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Perceptive												
Factor	Landscape												
Subfactor	Visual Incidence												
Soil Movement		-19	-1	2	1	4	1	1	1	1	1	1	1
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		-33	-1	4	2	2	4	2	1	1	1	4	2
Grubbing and clearance of the site		-26	-1	2	2	4	4	2	1	1	1	1	2
Filling, leveling and scarification process.		23	1	1	2	1	4	1	2	1	4	1	2
Inadequate waste management		-23	-1	2	2	4	1	2	1	1	1	1	2
Soil Compacting		0											

Individual Affection Matrix Construction Stage

System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Perceptive												
Factor	Landscape												
Subfactor	Visual Incidence												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		-56	-1	8	4	4	4	4	1	1	4	4	2
Operation of the wind energy turbines		0											
Inadequate waste management		-14	-1	1	1	2	1	1	1	1	1	1	1
WIND ENERGY GENERATION PROCESS		0											

Individual Affection Matrix Operation and Maintenance Stage



Client. Vientos Neuquinos I S.A.



EIA PEBC 001/14

Author Scudelati & Asociados S.R.L



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System	Physical Natural	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Perceptive												
Factor	Landscape												
Subfactor	Visual Incidence												
Dismantling of the wind turbines.		53	1	8	4	4	4	4	1	1	4	1	2
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		25	1	1	2	1	4	1	2	1	4	1	4
Inadequate waste management		-26	-1	2	1	4	2	1	1	1	4	4	1
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		-29	-1	2	2	2	4	2	1	1	1	4	4
Unemployment		0											



Individual Affection Matrix Departure Stage

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 29- Personnel	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 29.01</b>	<b>Subfactor Personnel Health</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affectation Absolute percentage</b>	<b>8.95 %</b>
<b>Impacting Actions</b>	Soil Movement Circulation and operation of vehicles Construction of permanent facilities. Grubbing and clearing of the site Filling, leveling, scarification activity and re planting. Soil Compacting
<b>Location.</b>	Project Area
<b>Impacts.</b>	Affectation over personnel health
<b>Description of impacts</b>	Negative affectation over personnel health will be due to: <ul style="list-style-type: none"> <li>- diffuse emissions of particulate material (airborne dust), caused by soil movement, circulation and operation of vehicles, permanent facility constructions , grubbing and clearing of the site, filling, leveling and re planting tasks and soil compacting. The absence of elements of personal protection (EPP) may potentially cause respiratory diseases.</li> <li>- the generation of noise from the use of tools, equipment and heavy vehicles, which may potentially produce hearing problems if the personnel does not use the corresponding elements of personal protection (EPP)</li> <li>- the excessive exposure to climatic agents that may provoke stress by heat o cold, dehydration or sunburns.</li> <li>- potential stings and bites caused by animals like snakes, spiders, rodents, scorpions, that might cause from allergic reactions to death.</li> <li>- potential accidents produced during the circulation and operation of vehicles.</li> <li>- falls from high points.</li> <li>- getting trapped in confined spaces (foundation excavations and trenches for wiring).</li> <li>- Electric choke by working with energized tools or equipment.</li> <li>- consumption of non-potable water .</li> </ul>
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Placement of risk signs and posters at the entrance/exit of access roads of the Area of the Project. Placement of posters with occupational risks in all the work. Occupational medical tests should be done to the personnel to evaluate their tolerance to work in heights (example: vertigo) Provide Elements of Personal Protection according occupational risks, and train the staff in their use and safety procedures in work. There must be Hot Process Solutions. There must be a Safety Plan approved by the ART for permanent staff and contractors. There must be a person in charge of occupational safety during the whole work There must be potable water and restrooms in adequate conditions for the personnel.
<b>Description of Mitigation Measures</b>	Set up monitoring programs in the working environment for noise, PM10 and thermal stress. Conduct studies of drinking water every six months. There must be a Contingency Plan that considers the rescue of personnel injured in high-level structures and it must have the elements needed in case of lesions by fall from high-level places or electric choke.
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 29- Personnel	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar



<b>Impact N° 29.02</b>	<b>Subfactor Personnel Health</b>
<b>STAGE</b>	<b>OPERATION AND MAINTENANCE</b>
<b>Affectation Absolute percentage</b>	<b>8.17 %</b>
<b>Impacting Actions</b>	Circulation and operation of vehicles Operation of the wind energy turbines
<b>Location.</b>	Project Area
<b>Impacts.</b>	Affectation over personnel health
<b>Description of impacts</b>	Negative affectation over personnel health will be due to: <ul style="list-style-type: none"> <li>- noise produced by wind turbines.</li> <li>- excessive exposure to climatic agents that may provoke stress by heat o cold, dehydration or sunburns.</li> <li>- potential stings and bites caused by animals like snakes, spiders, rodents, scorpions, that might cause from allergic reactions to death.</li> <li>- potential accidents produced during the circulation and operation of vehicles.</li> <li>- falls from high places.</li> <li>- Electric choke by working with energized tools or equipment.</li> <li>- consumption of non-potable water .</li> </ul>
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Placement of risk signs and posters at the entrance/exit of access roads of the Area of the Project. Placement of posters with occupational risks. There must be a Map of Occupational Risks identifying the most risky zones. Occupational medical tests should be done to the personnel to evaluate their tolerance to work in heights (example: vertigo) Provide Elements of Personal Protection according occupational risks, and train the staff in their use and safety procedures in work. There must be Hot Process Solution Procedure. There must be a Safety Plan approved by the ART for permanent staff and contractors. There must be a person in charge of occupational safety. Provide drinking water for the personnel.
<b>Description of Mitigation Measures</b>	Set up a monitoring plan in the working environment that includes the parameters of noise and lightning Conduct studies of drinking water every six months.
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 29- Personnel	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 29.03</b>	<b>Subfactor Personnel Health</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affectation Absolute percentage</b>	<b>10.79 %</b>
<b>Impacting Actions</b>	Dismantling of the wind turbines. Circulation and operation of vehicles Filling, leveling, scarification activity and re planting. Demolition/withdrawal of foundations and permanent installations.
<b>Location.</b>	Project Area
<b>Impacts.</b>	Affectation over personnel health
<b>Description of impacts</b>	Personnel health affectation will be due to tasks similar to those in the activities of the Construction Stage.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Idem CONSTRUCTION STAGE
<b>Description of Mitigation Measures</b>	Idem CONSTRUCTION STAGE
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium

System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Socioeconomic												
Factor	Personnel												
Subfactor	Personnel Health												
Soil Movement		-28	-1	4	2	4	1	2	1	1	1	1	1
Circulation and operation of vehicles		-22	-1	2	2	4	1	2	1	1	1	1	1
Operation of electric generator equipment		0											
Construction of permanent facilities.		-28	-1	4	2	4	1	2	1	1	1	1	1
Grubbing and clearance of the site		-14	-1	1	1	2	1	1	1	1	1	1	1
Filling, leveling and scarification process.		-16	-1	1	1	4	1	1	1	1	1	1	1
Inadequate waste management		0											
Soil Compacting		-14	-1	1	1	2	1	1	1	1	1	1	1

Individual Affectation Matrix Construction Stage

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 29- Personnel	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
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System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Personnel												
Subfactor	Personnel Health												
Circulation and operation of vehicles		-20	-1	2	1	2	1	4	1	1	1	1	1
Presence of permanent facilities.		0											
Operation of the wind energy turbines		-38	-1	1	4	4	4	4	2	1	4	4	4
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											

Individual Affection Matrix Operation and Maintenance Stage



System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Personnel												
Subfactor	Personnel Health												
Dismantling of the wind turbines.		-28	-1	4	2	4	1	2	1	1	1	1	1
Circulation and operation of vehicles		-22	-1	2	2	4	1	2	1	1	1	1	1
Filling, leveling and scarification process.		-16	-1	1	1	4	1	1	1	1	1	1	1
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		-28	-1	4	2	4	1	2	1	1	1	1	1
Unemployment		0											

Individual Affection Matrix Departure Stage





	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L.		www.scudelati.com.ar

<b>Impact N° 30.01</b>	<b>Subfactor Direct and indirect employment</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affectation Absolute percentage</b>	<b>11.86 %</b>
<b>Impacting Actions</b>	Soil Movement Circulation and operation of vehicles Construction of permanent facilities Grubbing and clearing of the site Filling, leveling, scarification activity and re planting. Soil Compacting
<b>Location.</b>	Project zone affected
<b>Impacts.</b>	Affectation over the generation of temporary indirect employment opportunities Affectation over the generation of permanent direct employment opportunities
<b>Description of impacts</b>	It is a cumulative impact with positive characteristics. The affectation over the generation of temporary indirect employment opportunities will be due to the tasks that involve contractor companies for soil movement, operations involving vehicles, permanent facility construction, filling, leveling and scarification activities, and soil compacting. Its influence over employment in the region will be positive for the increase in the demand of qualified manpower (engineers, consultants and investigators) and non qualified (building and transport sectors) Its influence over the improvement in the employment index of the zone will be medium. In this stage, affectation over the generation of permanent direct employment is related to the Project Management Personnel. Its influence over the improvement in the employment index of the zone will be low.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	None
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Does not apply
<b>Expected</b>	Does not apply

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 30.02</b>	<b>Subfactor Direct and indirect employment</b>
<b>STAGE</b>	<b>OPERATION AND MAINTENANCE</b>
<b>Affection Absolute percentage</b>	<b>12.68 %</b>
<b>Impacting Actions</b>	Circulation and operation of vehicles Operation of the wind energy turbines Wind energy generation use
<b>Location.</b>	Project zone affected
<b>Impacts.</b>	Affection over the generation of temporary indirect employment opportunities Affection over the generation of permanent direct employment opportunities
<b>Description of impacts</b>	It is a cumulative impact with positive characteristics. Affection over the generation of temporary indirect employment opportunities will be due to eventual tasks of maintenance and operation. In this section is included the generation of employment opportunities of companies specialized in the service of wind energy parks. Affection over permanent direct employment opportunities is related to the Management Personnel of the Project and those employees that perform operation and maintenance tasks. In both cases the influence over the improvement in the employment index of the zone will be low. The use of wind energy will enable to diversify and consolidate the energetic matrix in the region enabling the installation and growth of the industrial sector with the generation of new employment opportunities.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	None
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 30.03</b>	<b>Subfactor Direct and indirect employment</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affection Absolute percentage</b>	<b>7.23 %</b>
<b>Impacting Actions</b>	Dismantling of the wind turbines. Circulation and operation of vehicles Filling, leveling, scarification activity and re planting. Demolition/withdrawal of foundations and permanent installations. Unemployment
<b>Location.</b>	Project zone affected
<b>Impacts.</b>	Affection over the generation of temporary indirect employment opportunities Affection over the generation of permanent direct employment opportunities
<b>Description of impacts</b>	The affection over the generation of temporary indirect employment opportunities will be due to tasks that involve contractor companies for the dismantling of the wind turbines, moving permanent facilities and electric lines away, the demolition and withdrawal of foundations. Its influence over employment over the region will be a positive one for the increase in manpower demand. As in the Construction Stage, it is expected medium affection over the index of employment in the area. Given that project development implies the development of local /regional service providers, even though it is understood that their work will be reduced by the closure of the wind park, the know-how acquired will enable the personnel to develop commercial actions in other sites of the country or province. The finishing of the Project will generate unemployment of qualified manpower. Given that the region has other economic activities, work positions will be reorganized and the effect will be dimmed.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	None
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply



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System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Personnel												
Subfactor	Direct and indirect employment												
Soil Movement		26	1	1	4	4	1	1	2	1	1	4	1
Circulation and operation of vehicles		29	1	1	4	4	1	1	2	1	4	4	1
Operation of electric generator equipment		0											
Construction of permanent facilities.		26	1	1	4	4	1	1	2	1	1	4	1
Grubbing and clearance of the site		26	1	1	4	4	1	1	2	1	1	4	1
Filling, leveling and scarification process.		26	1	1	4	4	1	1	2	1	1	4	1
Inadequate waste management		0											
Soil Compacting		26	1	1	4	4	1	1	2	1	1	4	1

Individual Affection Matrix Construction Stage

System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Personnel												
Subfactor	Direct and indirect employment												
Circulation and operation of vehicles		30	1	2	4	4	2	2	1	1	1	4	1
Presence of permanent facilities.		0											
Operation of the wind energy turbines		30	1	2	4	4	2	2	1	1	1	4	1
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		30	1	2	4	4	2	2	1	1	1	4	1



Individual Affection Matrix Operation and Maintenance Stage



Client. Vientos Neuquinos I S.A.	EIA PEBC 001/14
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System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Socioeconomic												
Factor	Personnel												
Subfactor	Direct and indirect employment												
Dismantling of the wind turbines.		26	1	1	4	4	1	1	2	1	1	4	1
Circulation and operation of vehicles		26	1	1	4	4	1	1	2	1	1	4	1
Filling, leveling and scarification process.		26	1	1	4	4	1	1	2	1	1	4	1
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		26	1	1	4	4	1	1	2	1	1	4	1
Unemployment		-41	-1	4	4	4	4	2	1	1	4	4	1

**Individual Affection Matrix Departure Stage**

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 31.01</b>	<b>Subfactor Disturbing noises for the neighborhood.</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affectation Absolute percentage</b>	<b>2.83 %</b>
<b>Impacting Actions</b>	Soil Movement Circulation and operation of vehicles
<b>Location.</b>	Rural Post near the area of the Project.
<b>Impacts.</b>	Affectations over the health of nearby population
<b>Description of impacts</b>	Sound emissions of operating vehicles will cause disturbances for those who live in the rural post near the area of the project.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Prevention Measures</b>	Monitor noise disturbances for the neighborhood as Base Line prior to the beginning of the work, and if needed by environmental authority, during its execution.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Low
<b>Expected Effectiveness</b>	High



<b>Impact N° 31.02</b>	<b>Subfactor Disturbing noises for the neighborhood.</b>
<b>STAGE</b>	<b>OPERATION AND MAINTENANCE</b>
<b>Affectation Absolute percentage</b>	<b>5.77 %</b>
<b>Impacting Actions</b>	Operation of the wind energy turbines
<b>Location.</b>	Rural Post near the area of the Project.
<b>Impacts.</b>	Affectations over the health of nearby population
<b>Description of impacts</b>	Sound emissions will affect in a limited way the health of the people nearby, given that, as has been observed in the field study , there is only one house that is occasionally inhabited near the surroundings of the wind energy turbines.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	If required by environmental authority, monitor the neighborhood for disturbing noises regularly. Dispose a Maintenance Plan that avoids the generation of noise by mechanic source.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	High
<b>Expected Effectiveness</b>	High

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Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 31.03</b>	<b>Subfactor Disturbing noises for the neighborhood.</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affectation Absolute percentage</b>	<b>4.71 %</b>
<b>Impacting Actions</b>	Wind energy generation use
<b>Location.</b>	Rural Post near the area of the Project.
<b>Impacts.</b>	Affectations over the health of nearby population
<b>Description of impacts</b>	The closure of the Wind Energy Park implies the suspension of the generation of disturbing noises, being this a positive affectation.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	Does not apply
<b>Description of Mitigation Measures</b>	Does not apply
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply

System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Nearby Population´s Health												
Subfactor	Disturbance noises to the neighborhood (IRAM 4062)												
Soil Movement		-19	-1	2	2	2	1	1	1	1	1	1	1
Circulation and operation of vehicles		-19	-1	2	2	2	1	1	1	1	1	1	1
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
Soil Compacting		0											

**Individual Affectation Matrix Construction Stage**

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar



System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Socioeconomic												
Factor	Nearby Population's Health												
Subfactor	Disturbance noises to the neighborhood (IRAM 4062)												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		-41	-1	2	4	4	4	4	2	1	4	4	4
Inadequate waste management		0											
<b>WIND ENERGY GENERATION PROCESS</b>		0											

**Individual Affection Matrix Operation and Maintenance Stage**



System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Socioeconomic												
Factor	Nearby Population's Health												
Subfactor	Disturbance noises to the neighborhood (IRAM 4062)												
Dismantling of the wind turbines.		41	1	4	4	4	1	1	2	1	4	4	4
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
<b>WIND ENERGY GENERATION PROCESS</b>		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

**Individual Affection Matrix Departure Stage**





	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
	File 32- Other affectations over the population's health	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L.		www.scudelati.com.ar

Impact N° 32.01	Subfactor File 32- Other affectations over the
STAGE	CONSTRUCTION
<b>Affectation Absolute percentage</b>	<b>3.50 %</b>
<b>Impacting Actions</b>	Soil Movement Circulation and operation of vehicles
<b>Location.</b>	Rural Post near the area of the Project.
<b>Impacts.</b>	Affectations over the health of nearby population
<b>Description of impacts</b>	The negative affectation over the health of rural settlers contiguous to the Area of the Project will be due to the generation of diffuse emissions of particulate material during the working tasks.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	Risk signs and posters should be placed at the entrance/exit of access roads of the Area of the Project. Placement of road signs (circulation maximum speed) Moisten roads during summer.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Low
<b>Expected Effectiveness</b>	Medium

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
	File 32- Other affectations over the population's health	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar



<b>Impact N° 32.02</b>	<b>Subfactor File 32- Other affectations over the population's</b>
<b>STAGE</b>	<b>OPERATION AND MAINTENANCE</b>
Affectation Absolute percentage	<b>5.77 %</b>
Impacting Actions	Operation of the wind energy turbines
Location.	Rural Post near the area of the Project.
Impacts.	Affectations over the health of nearby population Affectation over air traffic Affectation over the landscape Affectation over Quality of Life
Description of impacts	<p>The affectation over the health of the population nearby will be due to the flickering shadow over the rural settlers that may occasionally live near the area of the project.</p> <p>Even though the area of the project is already affected in the landscape by electric lines, the Wind Energy Park will affect visual perception contiguous to the area of the project. This is a relative affectation given that the facilities may result of touristic interest for some, for others they may result as a modification of the original situation of the environment. As mentioned before, this affectation will only be perceived by occasional settlers of the rural post.</p> <p>The affectation over air traffic will be related to the height and color of the wind turbines. If it is similar to the context, it will be difficult to be seen with the potential risk of accidents.</p> <p>The affectation over Quality of Life due to the use of sustainable sources (like the wind) will be due to the reduction of greenhouse effect gases. Given that it is a global affectation impact, it will exceed the range of the population near the Project.</p>
<b>Preventing and Mitigation Measures.</b>	
Description of Preventing Measures	None
Description of Mitigation Measures	<p>There must be a maintenance system for tower beaconing.</p> <p>The facilities must be painted with colors that enable their integration in the landscape.</p> <p>The ends of the blades must be painted with reflective paint that enable them to be seen by airplanes and the rest with anti-reflective paint coating to reduce their effect in extremely bright days.</p>
Priority	High
Expected Effectiveness	High

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
	File 32- Other affections over the population's health	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 32.03</b>	<b>Subfactor File 32- Other affections over the</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affection Absolute percentage</b>	<b>1.03 %</b>
<b>Impacting Actions</b>	Wind energy generation use
<b>Location.</b>	Rural Post near the area of the Project.
<b>Impacts.</b>	Affections over the health of nearby population Affection over the landscape Affection over road traffic Affection over air traffic Affection over Quality of Life
<b>Description of impacts</b>	During working tasks the affection over the nearby population will have similar causes and effects that those indicated for the Construction Stage. The affection over Quality of Life will have a negative effect due to the closure of the Wind Energy Park which will potentially reduce the use of an alternative sustainable source of energy. Dismantling and closure tasks will imply the elimination of affection sources over the visual perception, vehicle and air traffic.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	Risk signs and posters should be placed at the entrance/exit of access roads of the Area of the Project. Placement of road signs (circulation maximum speed) Moisten roads during summer.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Medium
<b>Expected Effectiveness</b>	Medium

System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Nearby Population's Health												
Subfactor	Other affections over the population's health												
Soil Movement		-19	-1	2	2	2	1	1	1	1	1	1	1
Circulation and operation of vehicles		-28	-1	4	2	4	1	2	1	1	1	1	1
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
Soil Compacting		0											

Individual Affection Matrix Construction Stage



	Environmental Impact Study Wind Energy Park Vientos Neuquinos I	
	File 32- Other affections over the population's health	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Socioeconomic												
Factor	Nearby Population's Health												
Subfactor	Other affections over the population's health												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		-41	-1	2	4	4	4	4	2	1	4	4	4
Inadequate waste management		0											
<b>WIND ENERGY GENERATION PROCESS</b>		0											



**Individual Affection Matrix Operation and Maintenance Stage**

System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Socioeconomic												
Factor	Nearby Population's Health												
Subfactor	Other affections over the population's health												
Dismantling of the wind turbines.		41	1	4	4	4	1	1	2	1	4	4	4
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
<b>WIND ENERGY GENERATION PROCESS</b>		-50	-1	4	8	2	4	4	2	1	4	4	1
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											



**Individual Affection Matrix Departure Stage**

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 33- Economic	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 33.01</b>	<b>Subfactor Economic Activity</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affectation Absolute percentage</b>	<b>13.42 %</b>
<b>Impacting Actions</b>	Soil Movement Circulation and operation of vehicles Construction of permanent facilities. Grubbing and clearance of the site Filling, leveling and scarification process. Soil Compacting
<b>Location.</b>	Project zone affected
<b>Impacts.</b>	Product consumption Service consumption
<b>Description of impacts</b>	It is a cumulative impact with positive characteristics. Supply and service consumption for the construction of the Park will increase personnel entrance from contractors' companies with the indirect increase of their capacity of purchasing power. Local workers will potentially move to the Area of the Project impacting over the gastronomic industry and supermarkets. The demand of hotels and hosting places for the personnel will also increase. These affectations will impact over the closest population (Piedra del Águila)
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	Does not apply
<b>Description of Mitigation Measures</b>	Does not apply
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 33- Economic	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar



<b>Impact N° 33.02</b>	<b>Subfactor Economic Activity</b>
<b>STAGE</b>	<b>OPERATION AND MAINTENANCE</b>
<b>Affectation Absolute percentage</b>	<b>16.90 %</b>
<b>Impacting Actions</b>	Circulation and operation of vehicles Operation of the wind energy turbines Wind Energy generation use
<b>Location.</b>	Project zone affected
<b>Impacts.</b>	Product consumption Service consumption
<b>Description of impacts</b>	It is a cumulative impact with positive characteristics. Supply and service consumption for the construction of the Park will increase personnel entrance from contractors' companies with the indirect increase of their capacity of purchasing power. Given that the Area of the Project is used for farming, this activity will get along with the activity of the Wind Energy Park without any inconveniences. The use of Wind Energy sources will enhance the energetic matrix of the province and the region substituting imports and enabling the local industrial development associated to it.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	Does not apply
<b>Description of Mitigation Measures</b>	Does not apply
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 33- Economic	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 33.03</b>	<b>Subfactor Economic Activity</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affectation Absolute percentage</b>	<b>9.30 %</b>
<b>Impacting Actions</b>	Dismantling of the wind turbines. Demolition/moving away foundations and permanent installations. Filling, leveling, scarification activity and re planting. Circulation and operation of vehicles Unemployment
<b>Location.</b>	Project zone affected
<b>Impacts.</b>	Product consumption Service consumption
<b>Description of impacts</b>	The execution of departure works will imply direct consumption of supplies and services. Unemployment will be one effect of the Park closure ( losing the purchase power capacity of those related to the project) and it will affect negatively in the energetic matrix of the region, particularly over Piedra del Águila.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	Does not apply
<b>Description of Mitigation Measures</b>	Does not apply
<b>Priority</b>	Does not apply
<b>Person in charge of measures</b>	Does not apply

System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Society												
Subfactor	Economic Activity												
Soil Movement		32	1	2	4	4	1	1	2	1	4	4	1
Circulation and operation of vehicles		29	1	1	4	4	1	1	2	1	4	4	1
Operation of electric generator equipment		0											
Construction of permanent facilities.		32	1	2	4	4	1	1	2	1	4	4	1
Grubbing and clearance of the site		29	1	1	4	4	1	1	2	1	4	4	1
Filling, leveling and scarification process.		29	1	1	4	4	1	1	2	1	4	4	1
Inadequate waste management		0											
Soil Compacting		29	1	1	4	4	1	1	2	1	4	4	1

**Individual Affectation Matrix Construction Stage**

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 33- Economic	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar



System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Society												
Subfactor	Economic Activity												
Circulation and operation of vehicles		35	1	2	4	4	4	4	2	1	1	4	1
Presence of permanent facilities.		0											
Operation of the wind energy turbines		35	1	2	4	4	4	4	2	1	1	4	1
Inadequate waste management		0											
<b>WIND ENERGY GENERATION PROCESS</b>		<b>50</b>	<b>1</b>	<b>4</b>	<b>8</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>1</b>

Individual Affection Matrix Operation and Maintenance Stage

System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Society												
Subfactor	Economic Activity												
Dismantling of the wind turbines.		32	1	2	4	4	1	1	2	1	4	4	1
Circulation and operation of vehicles		29	1	1	4	4	1	1	2	1	4	4	1
Filling, leveling and scarification process.		29	1	1	4	4	1	1	2	1	4	4	1
Inadequate waste management		0											
<b>WIND ENERGY GENERATION PROCESS</b>		<b>0</b>											
Demolition/withdrawal of foundations and permanent installations.		32	1	2	4	4	1	1	2	1	4	4	1
Unemployment		-41	-1	4	4	4	4	2	1	1	4	4	1

Individual Affection Matrix Departure Stage





	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 34 Cultural Heritage	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 34.01</b>	<b>Subfactor Cultural Heritage</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affectation Absolute percentage</b>	<b>2.09 %</b>
<b>Impacting Actions</b>	Soil Movement
<b>Location.</b>	Project Area
<b>Impacts.</b>	Affectation over the archaeological heritage Affectation over the paleontological heritage
<b>Description of impacts</b>	Given that the area of the project is located in a region with an important anthropic affectation (farming activities and farmhouses) this sub factor is not much vulnerable.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	Communication procedures and standstill of the work before an archaeological and/or paleontological finding. Train own and contracted personnel about specific procedures. Do not rescue occasional findings.
<b>Description of Mitigation Measures</b>	Prior to the beginning of the Construction Stage conduct an archaeological and paleontological Base Line Study
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium

System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Society												
Subfactor	Cultural Heritage												
Soil Movement		-28	-1	4	2	4	1	2	1	1	1	1	1
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
Soil Compacting		0											

**Individual Affectation Matrix Construction Stage**

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 35 Electric Infrastructure	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 35.01</b>	<b>Subfactor Electric Infrastructure</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affectation Absolute percentage</b>	<b>2.16 %</b>
<b>Impacting Actions</b>	Construction of permanent facilities.
<b>Location.</b>	Project zone affected
<b>Impacts.</b>	Affectation over Quality of Life Affectation over Employment
<b>Description of impacts</b>	The construction of the connection point with the LHT will affect operative tasks sporadically. This will be a temporary affectation and it will be reverted once the tasks have finished.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	None
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply

<b>Impact N° 35.02</b>	<b>Subfactor Electric Infrastructure</b>
<b>STAGE</b>	<b>OPERATION AND MAINTENANCE</b>
<b>Affectation Absolute percentage</b>	<b>7.04 %</b>
<b>Impacting Actions</b>	Operation of the wind energy turbines
<b>Location.</b>	Project zone affected
<b>Impacts.</b>	Affectation over Quality of Life Affectation over Employment
<b>Description of impacts</b>	The affectation over Quality of Life due to the use of sustainable sources (like the wind) will be due to the reduction of greenhouse effect gases. Given that it is a global affectation impact, it will exceed the range of the population near the Project. The improvement in the energetic matrix by the use of renewable sources will enable the development of other companies and the generation of new working positions.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	Does not apply
<b>Description of Mitigation Measures</b>	Does not apply
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 35 Electric Infrastructure	
	Client. Vientos Neuquinos I S.A.	
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 35.03</b>	<b>Subfactor Electric Infrastructure</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affectation Absolute percentage</b>	<b>5.74 %</b>
<b>Impacting Actions</b>	Dismantling of the wind turbines.
<b>Location.</b>	Project zone affected
<b>Impacts.</b>	Affectation over Quality of Life
<b>Description of impacts</b>	The affectation over Quality of Life will have a negative effect due to the closure of the Wind Energy Park which will potentially reduce the use of an alternative sustainable source of energy.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	None
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	Does not apply
<b>Expected Effectiveness</b>	Does not apply

System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Infrastructure												
Subfactor	Electric												
Soil Movement		0											
Circulation and operation of vehicles		0											
Operation of electric generator equipment		0											
Construction of permanent facilities.		-29	-1	1	4	4	1	1	1	4	4	2	1
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
Soil Compacting		0											

Individual Affectation Matrix Construction Stage





Client. Vientos Neuquinos I S.A.	EIA PEBC 001/14
Author Scudelati & Asociados S.R.L	www.scudelati.com.ar

System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Infraestructure												
Subfactor	Electric												
Circulation and operation of vehicles		0											
Presence of permanent facilities.		0											
Operation of the wind energy turbines		50	1	4	8	2	4	4	2	1	4	4	1
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											

Individual Affection Matrix Operation and Maintenance Stage



System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Infraestructure												
Subfactor	Electric												
Dismantling of the wind turbines.		-50	-1	4	8	2	4	4	2	1	4	4	1
Circulation and operation of vehicles		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

Individual Affection Matrix Departure Stage

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 36 Road Infrastructure	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 36.01</b>	<b>Subfactor Road Infrastructure</b>
<b>STAGE</b>	<b>CONSTRUCTION</b>
<b>Affectation Absolute percentage</b>	<b>2.16 %</b>
<b>Impacting Actions</b>	Circulation and operation of vehicles
<b>Location.</b>	Direct Influence Zone of the Project
<b>Impacts.</b>	Affectations over the health of the population near the roadways.
<b>Description of impacts</b>	The negative affectation over the road traffic will generate risky situations in their path through the cities of the provinces of Buenos Aires, Río Negro and Neuquén by which the vehicles will transport the parts of the wind turbines.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	The transportation of wind turbines parts will be informed to the population in advance by the massive means of communication in the region.
<b>Description of Mitigation Measures</b>	A plan to transport the equipment will be established together with the transportation authorities in order to avoid accident risks during the temporary transfer of the wind turbines
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium

<b>Impact N° 36.02</b>	<b>Subfactor Road Infrastructure</b>
<b>STAGE</b>	<b>OPERATION AND MAINTENANCE</b>
<b>Affectation Absolute percentage</b>	<b>2.25 %</b>
<b>Impacting Actions</b>	Circulation and operation of vehicles
<b>Location.</b>	Direct Influence Zone of the Project
<b>Impacts.</b>	Affectations over the health of the population near the roadways.
<b>Description of impacts</b>	The transportation of equipment and large spare parts for routine maintenance tasks may affect the transit flow in the roadways where they go through, increasing the risks of road accidents
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	The transportation of wind turbines parts will be informed to the population in advance by the massive means of communication in the region.
<b>Description of Mitigation Measures</b>	None
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium

	Environmental Impact Study Wind Energy Park Vientos Neuquinos I File 36 Road Infrastructure	
Client. Vientos Neuquinos I S.A.		EIA PEBC 001/14
Author Scudelati & Asociados S.R.L		www.scudelati.com.ar

<b>Impact N° 36.03</b>	<b>Subfactor Road Infrastructure</b>
<b>STAGE</b>	<b>DEPARTURE</b>
<b>Affection Absolute percentage</b>	<b>3.33 %</b>
<b>Impacting Actions</b>	Circulation and operation of vehicles
<b>Location.</b>	Direct Influence Zone of the Project
<b>Impacts.</b>	Affections over the health of nearby population Affection over road traffic
<b>Description of impacts</b>	During working tasks the affection over the nearby population will have similar causes and effects that those indicated for the Construction Stage.
<b>Preventing and Mitigation Measures.</b>	
<b>Description of Preventing Measures</b>	Idem CONSTRUCTION STAGE
<b>Description of Mitigation Measures</b>	Idem CONSTRUCTION STAGE
<b>Priority</b>	High
<b>Expected Effectiveness</b>	Medium

System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Mediu	Socioeconomic												
Factor	Infrastructure												
Subfactor	Roads												
Soil Movement		0											
Circulation and operation of vehicles		-29	-1	1	4	4	1	1	1	4	4	2	1
Operation of electric generator equipment		0											
Construction of permanent facilities.		0											
Grubbing and clearance of the site		0											
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
Soil Compacting		0											

**Individual Affection Matrix Construction Stage**



System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Socioeconomic												
Factor	Infrastructure												
Subfactor	Roads												
Circulation and operation of vehicles		-16	-1	1	1	4	1	1	1	1	1	1	1
Presence of permanent facilities.		0											
Operation of the wind energy turbines		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											

Individual Affection Matrix Operation and Maintenance Stage

System	Socioeconomic	Importance	Sign	Intensity	Extension	Moment	Persistence	Reversibility	Synergy	Accumulation	Effect	Periodicity	Recoverability
Medium	Socioeconomic												
Factor	Infrastructure												
Subfactor	Roads												
Dismantling of the wind turbines.		0											
Circulation and operation of vehicles		-29	-1	1	4	4	1	1	1	4	4	2	1
Filling, leveling and scarification process.		0											
Inadequate waste management		0											
WIND ENERGY GENERATION PROCESS		0											
Demolition/withdrawal of foundations and permanent installations.		0											
Unemployment		0											

Individual Affection Matrix Departure Stage