



Consumables	Rehabilitation and expansion of roads	IP 24: Demand of consumables or materials	+	3	3	1	2	NA	NA	9	0.63	0.9	0.7	-0.2	-0.13	Low beneficial
	Transportation of consumables, equipment, explosives, materials and staff															
	Construction and/or placement of provisional facilities															

		IMPACT DESCRIPTION	INCIDENCE CRITERIA						TOTAL	INCIDENCE CRITERIA	FACTOR QUALITY		MAGNITUDE	IMPACT VALUE	CLASSIFICATION	
			SIGN	ACCUMULATION	MOMENT	PERSISTENCE	SYNERGY	REVERSIBILITY			MITIGABILITY	With project		Without project		Magnitude X Incidence Index
	High beneficial															
	Moderate beneficial															
	Low beneficial															
	Low adverse															
	Moderate adverse															
<b>FACTOR</b>	<b>ACTIVITY</b>															
Air Quality	Rocks removal and blasting activities	IC 1: Emissions of combustion gas and dust	-	2	3	2	2	1	2	12	0.50	0.7	1	0.3	0.15	Low adverse
	Excavations, cuts, and filling-in															
	Compaction and leveling															
	Wind-turbines construction															
	Installation of permanent meteorological towers															
	Construction of transmission lines and substations															
	Operation of provisional facilities (concrete plant, offices and warehouses)															
	Restoration and cleaning															
Transportation of consumables, equipment, materials and staff																
Noise	Rocks removal and blasting activities	IC 2: Noise emissions	-	2	3	1	2	1	2	11	0.42	0.7	1	0.3	0.13	Low adverse
	Excavations, cuts, and filling-in															
	Compaction and leveling															
	Wind-turbines construction															
	Installation of permanent meteorological towers															
	Construction of transmission lines and substations															
	Operation of provisional facilities (concrete plant, offices and warehouses)															
	Restoration and cleaning															
Transportation of consumables, equipment, materials and staff																
Land structure	Rocks removal and blasting activities	IC 3: Land erosion due to loss of vegetable coverage	-	2	3	2	2	2	2	13	0.58	0.6	0.8	0.2	0.12	Low adverse
	Excavations, cuts, and filling-in															
	Compaction and leveling															
	Wind-turbines construction															
	Installation of permanent meteorological towers															
	Construction of transmission lines and substations															
Land quality	Rocks removal and blasting activities	IC 4: Land pollution due to wrong management of liquid and solid waste, as well as possible dripping of hydrocarbons from machinery and equipment	-	3	3	3	2	2	1	14	0.67	0.8	1	0.2	0.13	Low adverse
	Excavation, cuts, and filling-up															
	Compaction and leveling															
	Wind-turbines construction															
	Installation of permanent meteorological towers															
	Construction of transmission lines and substations															
Relief	Rocks removal and blasting activities	IC 5: Modification of geological formations	-	2	3	3	2	2	2	14	0.67	0.8	1	0.2	0.13	Low adverse
	Cuts and filling															
	Compaction and leveling															
Surface drainage	Rocks removal and blasting activities	IC 6: Modification of surface hydrological pattern	-	3	3	3	2	2	2	15	0.75	0.8	1	0.2	0.15	Low adverse
	Excavation, cuts, and filling-up															
	Compaction and leveling															
	Wind-turbines construction															
	Installation of permanent meteorological towers															
	Construction of transmission lines and substations															
Storage of materials, machinery and equipment																
Air Quality	Rocks removal and blasting activities	IC 7: Pollution of water bodies	-	3	3	3	2	2	1	14	0.67	0.8	1	0.2	0.13	Low adverse
	Excavation, cuts, and filling-up															
	Compaction and leveling															
	Wind-turbines construction															
	Construction of transmission lines and substations															
	Operation of provisional facilities (concrete plant, offices and warehouses)															
Restoration, cleaning, and signaling																

	Storage of materials, machinery and equipment															
Aquifers recharge	Foundation of wind turbines	IC 8: Reduction of recharging capacity of aquifers	-	3	3	3	2	2	2	15	0.75	0.6	0.8	0.2	0.15	Low adverse
Distribution of fauna species	Rocks removal and blasting activities	IC 9: Species displacement	-	3	3	2	1	2	2	13	0.58	0.4	0.7	0.3	0.18	Low adverse
	Excavation, cuts, and filling-up															
	Compaction and leveling															
	Wind-turbines construction															
	Installation of permanent meteorological towers															
	Construction of transmission lines and substations															
	Operation of provisional facilities (concrete plant, offices and warehouses)															
Restoration, cleaning, and signaling																
Landscape quality	Transportation of consumables, equipment, materials and staff	IC 10: Modification of original landscape	-	3	3	1	2	2	2	13	0.58	0.4	0.8	0.4	0.23	Low adverse
	Rocks removal and blasting activities															
	Excavation, cuts, and filling-up															
	Compaction and leveling															
	Wind-turbines construction															
	Installation of permanent meteorological towers															
	Construction of transmission lines and substations															
Operation of provisional facilities (concrete plant, offices and warehouses)																
Jobs	Storage of materials, machinery and equipment	IC 11: Creation of direct jobs	+	3	3	1	2	NA	NA	9	0.63	0.9	0.7	-0.2	-0.13	Low beneficial
	Rocks removal and blasting activities															
	Excavation, cuts, and filling-up															
	Compaction and leveling															
	Wind-turbines construction															
	Installation of permanent meteorological towers															
	Construction of transmission lines and substations															
Operation of provisional facilities (concrete plant, offices and warehouses)																
Local and Regional Development	Restoration, cleaning, and signaling	IC 12: Demand of services in neighboring towns (food, recreation, vehicles, machinery and equipment)	+	3	3	1	2	NA	NA	9	0.63	0.9	0.6	-0.3	-0.19	Low beneficial
	Transportation of consumables, equipment, materials and staff															
	Rocks removal and blasting activities															
	Excavation, cuts, and filling-up															
	Compaction and leveling															
	Wind-turbines construction															
	Installation of permanent meteorological towers															
Construction of transmission lines and substations																
Water services	Operation of provisional facilities (concrete plant, offices and warehouses)	IC 13: Water demand	-	3	3	1	1	2	2	12	0.50	0.7	1	0.3	0.15	Low adverse
	Restoration, cleaning, and signaling															
	Transportation of consumables, equipment, materials and staff															
	Wind-turbines construction															
	Installation of permanent meteorological towers															
	Construction of transmission lines and substations															
	Operation of provisional facilities (concrete plant, offices and warehouses)															
Energy services	Storage of materials, machinery and equipment	IC 14: Energy demand	-	3	3	1	1	2	2	12	0.50	0.7	1	0.3	0.15	Low adverse
	Excavation, cuts, and filling-up															
	Compaction and leveling															
	Wind-turbines construction															
Waste management and disposal	Installation of permanent meteorological towers	IC 15: Waste management services demand	-	3	1	2	2	2	2	12	0.50	0.4	0.7	0.3	0.15	Low adverse
	Construction of transmission lines and substations															
	Operation of provisional facilities (concrete plant, offices and warehouses)															
	Storage of materials, machinery and equipment															
	Rocks removal and blasting activities															
	Excavation, cuts, and filling-up															
	Compaction and leveling															
Wind-turbines construction																
Connection tests																

	Restoration, cleaning, and signaling															
Consumables	Rocks removal and blasting activities	IC 16: Demand of consumables or materials	†	3	3	1	3	NA	NA	10	0.75	0.9	0.7	-0.2	-0.15	Low beneficial
	Excavations, cuts, and filling-in															
	Compaction and leveling															
	Wind-turbines construction															
	Installation of permanent meteorological towers															
	Construction of transmission lines and substations															
	Operation of provisional facilities (concrete plant, offices and warehouses)															
	Transportation of consumables, equipment, materials and staff															
Tests																

		IMPACT DESCRIPTION	INCIDENCE CRITERIA						TOTAL	INCIDENCE CRITERIA	FACTOR QUALITY		MAGNITUDE	IMPACT VALUE		CLASSIFICATION	
			SIGN	ACCUMULATION	MOMENT	PERSISTENCE	SYNERGY	REVERSIBILITY			MITIGABILITY	With project		Without project	Magnitude X Incidence Index		
	High beneficial																
	Moderate beneficial																
	Low beneficial																
	Low adverse																
	Moderate adverse																
<b>FACTOR</b>	<b>ACTIVITY</b>																
Air Quality	Wind turbines operation	IO 1: Reduction in contribution of greenhouse gas into the atmosphere	+	3	3	3	3	3	NA	NA	12	1.00	1	0.7	-0.3	-0.30	Moderate beneficial
Air Quality	Maintenance and Surveillance	IO 2: Emissions of combustion gas and dust	-	2	3	2	2	2	2	2	13	0.58	0.9	1	0.1	0.06	Low adverse
Noise	Wind turbines operation	IO 3: Noise emissions	-	2	3	3	2	3	2	2	15	0.75	0.8	1	0.2	0.15	Low adverse
	Maintenance and Surveillance																
Land quality	Maintenance and Surveillance	IO 4: Land pollution due to wrong management of liquid and solid waste, as well as possible dripping of hydrocarbons from machinery and equipment	-	2	3	3	2	2	2	1	13	0.58	0.9	1	0.1	0.06	Low adverse
Flora	Land restoration in provisional roads and temporarily impaired areas	IO 5: Growth of natural vegetation in provisional roads and temporarily impaired areas	+	3	2	3	3	3	NA	NA	11	0.88	0.8	0.6	-0.2	-0.18	Low beneficial
Fauna	Wind turbines operation	IO 6: Mortality of birds and bats due to collision with turbines	-	2	3	3	2	3	2	2	15	0.75	0.7	1	0.3	0.23	Low adverse
Fauna (Distribution)	Wind turbines operation	IO 7: Species displacement	-	3	3	3	1	2	2	2	14	0.67	0.6	0.7	0.1	0.07	Low adverse
	Maintenance and Surveillance																
Landscape	Wind turbines operation	IO 8: Modification of original landscape	-	2	3	3	2	3	3	3	16	0.83	0.5	0.9	0.4	0.33	Moderate adverse
	Operation of electric facilities																
	Maintenance and Surveillance																
Jobs	Maintenance and Surveillance	IO 9: Creation of direct and indirect jobs	+	3	3	1	2	NA	NA	NA	9	0.63	0.9	0.8	-0.1	-0.06	Low beneficial
Local and Regional Development	Wind turbines operation	IO 10: Boost to local and regional companies, activities and productive sectors	+	3	3	3	3	3	NA	NA	12	1.00	1	0.7	-0.3	-0.30	Moderate beneficial
	Operation of electric facilities																
Waste management and disposal	Maintenance and Surveillance	IO 11: Waste management services demand	-	3	3	2	2	2	2	2	14	0.67	0.7	0.8	0.1	0.07	Low adverse

