

OVERVIEW OF GRID PROJECTS

GRID PROJECT	DESCRIPTION AND MAIN AIMS	CURRENT STATUS ⁵	PLANNED OPERATION ⁶
1. Chamoson–Chippis	<ul style="list-style-type: none">▪ New 30 km long 380 kV overhead transmission line between Chamoson and Chippis▪ Dismantling of almost 89 km of power lines in the Rhone plain▪ Transfer production from hydropower plants in Valais▪ Improved connection between Valais and the Swiss and European high tension grid▪ Contribution to grid security in Switzerland	Realisation	2021
2. Bickigen–Chippis (Gemmi line)	<ul style="list-style-type: none">▪ Modernisation of substations at Bickigen and Chippis and of the existing 106 km route by increasing current to 380 kV▪ Installation of a 220/380 kV grid coupling transformer in the Chippis switchgear facility▪ Improved transfer of electricity production from Valais▪ Contribution to security of supply	PGV SFOE	2021
3. Pradella–La Punt	<ul style="list-style-type: none">▪ Increase voltage from 220 to 380 kV on existing 50 km route▪ Modification of switchgear at Pradella and increase of voltage to 380 kV▪ Elimination of existing bottleneck▪ Contribution to Swiss and European grid security	Realisation	2021
4. Chippis–Lavorgo 4.1. Chippis–Mörel 4.2. Mörel–Ulrichen (Gommer line) 4.3. Chippis–Stalden 4.4. Airolo–Lavorgo	<ul style="list-style-type: none">▪ Increase voltage to 380 kV on 124 km Chippis–Mörel–Lavorgo axis (Chippis–Stalden remains at 220 kV)▪ Dismantling of existing lines over 67 km▪ Supplements the main supply route for Ticino▪ Elimination of a critical supply bottleneck	4.1. Construction project 4.2. BVGer (Mörel–Ernen)/Realisation (Ernen–Ulrichen) 4.3. PGV SFOE (Agarn–Stalden)/Construction project (Chippis–Agarn) 4.4. Construction project	2024
5. Beznau–Mettlen 5.1. Beznau–Birr 5.2. Birr–Niederwil 5.3. Niederwil–Obfelden 5.4. Obfelden–Mettlen	<ul style="list-style-type: none">▪ Optimisation of existing route over 40 km by increasing current to 380 kV and upgrading on a stretch of 24 km▪ Elimination of a structural bottleneck▪ Creation of the conditions needed to combine domestic hydropower plants with fluctuating energy from wind and photovoltaic plant to respond to demand	5.1. Realisation 5.2. Preliminary project 5.3. SÜL 5.4. Preliminary project	2025

GRID PROJECT	DESCRIPTION AND MAIN AIMS	CURRENT STATUS ⁵	PLANNED OPERATION ⁶
6. Bassecourt–Mühleberg	<ul style="list-style-type: none">▪ Upgrading of the existing line over a length of 45 km by increasing the voltage level to 380 kV because decommissioning Mühleberg nuclear power plant will lead to withdrawal of some feed-in at the 220 kV grid level▪ Contribution to Swiss grid security and security of supply	PGV SFOE	2025 From the end of 2019 technically ready for provisional change to 380 kV if required in compliance with the original authorisation for the line
7. Magadino	<ul style="list-style-type: none">▪ Installation of transformers between the 220 kV and 380 kV grids▪ The aim is to improve the transfer of energy generated in Maggiatal by hydropower▪ Contribution to security of supply in Ticino	Project idea	2024
8. Génissiat–Foretaille	<ul style="list-style-type: none">▪ Upgrading of (replacement of cable) the existing 220 kV twin lines over a length of 17 km▪ Eliminates frequent bottlenecks which occur for imports from France	In operation	Concluded in 2018 and in operation
9. Mettlen–Ulrichen 9.1. Mettlen–Innertkirchen 9.2. Innertkirchen–Ulrichen (Grimsel line)	<ul style="list-style-type: none">▪ Upgrade the existing 220 kV line over 88 km to cope with a future increase to 380 kV▪ Important for the connection of new pump storage power plants to the 380 kV grid and transfer of energy to the rest of Switzerland	Preliminary project	2030
Anschluss Nant de Drance NdD_1 Le Verney/Rosel–Bâtiaz NdD_2 Bâtiaz–Châtelard NdD_3 Châtelard–Nant de Drance	<ul style="list-style-type: none">▪ Connection of pump storage power plant Nant de Drance to the high tension grid▪ Part of the strategic grid in the Swissgrid initial grid▪ Contribution to integrate new renewable energy sources	NdD_1 Realisation NdD_2 in operation NdD_3 Realisation/partly operational	2017–2019

Overview of grid projects, status and proposed date of operation (as at 17.10.2018)

⁵ As at 17 October 2018

⁶ According to Swissgrid plans