

Energy shortage scenarios at EPFL

These continuity plans apply to the main campus and the associated campuses; a continuity plan will only be activated if the government implements the OSTRAL plan.

	Plan I	Estimated savings (MWh, full-year equiv.)	Plan II	Estimated savings (MWh, full-year equiv.)	Plan III	Estimated savings (MWh, full-year equiv.)	Plan IV	Estimated savings (MWh, full-year equiv.)
	Reduce energy use by 10%		Reduce energy use by 20%		Reduce energy use by 33%		Reduce energy use by 50%	
Hypotheses of impacts on the general public								
Current phase of the OSTRAL-Swiss government plan	Rationing for major consumers		Rationing for major consumers		Power cuts on the national grid		Power cuts on the national grid	
■ Major consumers	10% reduction in consumption		20% reduction in consumption		Power cut 2 times/day for 4 hours/time		Power cut 3 times/day for 4 hours/time	
■ Households	Maintained		Maintained		Power cut 2 times/day for 4 hours/time		Power cut 3 times/day for 4 hours/time	
Public transport	Maintained		Maintained		Sharply reduced, frequent interruptions		Interruptions likely	
Communication networks	Maintained		Maintained		Sharply reduced, frequent interruptions		Interruptions likely	
Businesses	Maintained		Maintained		Sharply reduced, frequent interruptions		Interruptions likely	
Restaurants	Maintained		Maintained		Sharply reduced, frequent interruptions		Interruptions likely	
Compulsory schools	Maintained		Maintained		Interrupted		Interrupted	
EPFL power supply								
EPFL campus, Ecublens	-10%		-20%		-33%		-50%	
UNIL campus (incl. BSP + BCH)	-10%		-20%		Power cut 2 times/day for 4 hours/time		Power cut 3 times/day for 4 hours/time	
Lausanne campus (JORD, GO20, AU, ECAL, etc.)	-10%		-20%		Power cut 2 times/day for 4 hours/time		Power cut 3 times/day for 4 hours/time	
Fribourg campus	-10%		-20%		Power cut 2 times/day for 4 hours/time		Power cut 3 times/day for 4 hours/time	
Geneva campus	-10%		-20%		Power cut 2 times/day for 4 hours/time		Power cut 3 times/day for 4 hours/time	
Neuchâtel campus	-10%		-20%		Power cut 2 times/day for 4 hours/time		Power cut 3 times/day for 4 hours/time	
Sion campus	-10%		-20%		Power cut 2 times/day for 4 hours/time		Power cut 3 times/day for 4 hours/time	
EPFL operations (led & coordinated by CECOM, subject to DIR approval)								
Teaching - classes	Maintained		Maintained		No in-person classes, asynchronous online only		Interrupted	
Teaching - practicals	Maintained		Maintained		Interrupted		Interrupted	
Teaching - exercises	Maintained		Maintained		No in-person classes, asynchronous online only		Interrupted	
Experimental research	Maintained		Partly reduced		Interrupted		Interrupted	
Computational research	Maintained		Partly reduced		Partly reduced		Interrupted	
Theoretical research	Maintained		Maintained		Maintained, remote		Maintained, remote	
Technical services	Maintained		Maintained, in-person		Sharply reduced, in-person		Sharply reduced, in-person	
Administrative services	Maintained		Maintained, remote		Partly maintained, remote		Sharply reduced, remote	
Events	Maintained		Reduced		Interrupted		Interrupted	
Restaurants	Maintained		Partly reduced		Interrupted		Interrupted	
Energy efficiency measures								
Core physical infrastructure (led & coordinated by VPO-DSE for Ecublens, by VPO-DDC-DirOp for associated campuses, subject to CECOM approval)		4,840		4,740		9,356		9,100
Core digital infrastructure (led & coordinated by VPO-DSI, subject to CECOM approval)		9		32		137		261
Restaurants & event facilities (led & coordinated by VPO-DDC, subject to CECOM approval)		300		800		1,400		1,900
Tech platforms (led & coordinated by VPA-AVP-CP, subject to CECOM approval)		1,800		5,110		7,760		10,960
Lab equipment (led by schools, coordinated by VPA-AVP-R, subject to CECOM approval)		0		590		3,200		3,200
General measures for units and individuals		1,612		4,612		6,142		7,672
Total power reduction (MWh/yr)		8,651		15,884		27,995		33,093
Target reduction (base 80,000MWh/yr)		8,000		16,000		26,400		40,000