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## Orienigate Highlight - water quantity Too little residual flow downstream of abstraction sites together with hydropeaking is recognized as a major challenge for water management in order to achieve the objectives of the legal framework in place (EU WFD and also Swiss legal system). Permissions for new facilities are already taking into account the need for also realizing environmental objectives, but additional measures are required for reducing the negative impacts of existing facilities on the freshwater ecology. Innovative solutions, mitigating adverse ecologic effects of reservoirs (sufficient residual flow, artificial flooding, attenuating basins against hydropeaking, definition of ecological less valuable areas with stronger exploitation and determination of ecologically very valuable areas without exploitation etc.) are suggested. European Union



## Highlight - water quantity

RIENTGATE NETWOR

European Union

A step-by-step approach is considered as an appropriate procedure for necessary investments in the modernisation of facilities.

Procedures focusing on weighing of interests are indispensable and should strive for optimized trade-offs, where both economic and ecologic concerns are considered;

To respect lakes role of providing water for the downstream area during dry periods it is important to note that the potential of regulating and topping up runoff for the downstream area is limited due to restricted lake storage capacities and the interests of parties at the shores of the lakes themselves. Thus, expectations from downstream areas should be aware of this and regard upstream lakes only as an attenuating factor for satisfying their demands but strive for solutions at the demand side.

























(	TIENTGATE Ecological status of surface waters					
	Country	River length [km or wb]	High Status [%]	Good Status [%]	Worse than Good status [%]	
	Austria	19.094 km	22	24	54	
	France	12.500 km	12	59	29	
	Germany	150 water bodies	1	57	42	
	Italy	557 water bodies	3	74	23	
	Switzerland	not applicable	not applicable	not applicable	not applicable	
		Share of wate status seems northern par	er bodies <b>not ir</b> to be higher ir t of the Alps	n good	European Union	

Orient	The orientgate Heavily modified water bodies (rivers)					
	Country	HM wb [%]				
	Austria	10	Share of water bodies			
	France	20	designated as <b>heavily</b>			
	Germany	13	modified water bodies			
	Italy	6	moderate			
	Switzerland	not applicable				
	' 		European Union			









