



Computation of long-term annual renewable water resources (RWR) by country (in km³/year, average)

Portugal

Internal RWR		
Precipitation (mm/year) Area of the country (1000 ha) Precipitation (km³/year)	[1] <u>854</u> [2] <u>9 223</u> [3] <u>78.76</u> =([1]/100	00000)×([2]×10)
Surface water: produced internally	[4] 38	
Groundwater: produced internally	[5] 4	
Overlap between surface water and groundwater	[6] <u>4</u> (a)	
Total internal renewable water resources	[7] 38 =[4]+[5]-	[6]
External RWR	Total	Accounted
Surface water Surface water entering the country Inflow not submitted to treaties Inflow submitted to treaties Inflow secured through treaties Flow in border rivers Accounted inflow Surface water leaving the country Outflow not submitted to treaties Outflow submitted to treaties Outflow secured through treaties Total external renewable surface water Groundwater Groundwater entering the country Groundwater leaving the country	33.4 12 0	$\begin{bmatrix} 8 \end{bmatrix} 33.4$ $\begin{bmatrix} 9 \end{bmatrix} 0$ $\begin{bmatrix} 10 \end{bmatrix} 6$ $\begin{bmatrix} 10 \end{bmatrix} 6$ $\begin{bmatrix} 0 \\ 0 \end{bmatrix}$ $\begin{bmatrix} 12 \end{bmatrix} 0$ $\begin{bmatrix} 13 \end{bmatrix} 39.4 = \begin{bmatrix} 11 \end{bmatrix} = \begin{bmatrix} 11 \end{bmatrix} = \begin{bmatrix} 12 \end{bmatrix}$ $\begin{bmatrix} 14 \end{bmatrix} 0$ $\begin{bmatrix} 0 \\ 0 \end{bmatrix}$ $\begin{bmatrix} 15 \end{bmatrix} 39.4 = \begin{bmatrix} 13 \end{bmatrix} = \begin{bmatrix} 13 \end{bmatrix} = \begin{bmatrix} 14 \end{bmatrix}$
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Total RWR		
Surface water		[16] 77.4 =[4]+[13]
Groundwater		[17] 4=[5]+[14]
Overlap between surface water and groundwater		[6](a)
Total renewable water resources		[18] 77.4 =[16]+[17]-[6]
Dependency ratio (%)		[19] 50.9 =100*([11]+[14]) /([11]+[14]+[7])

Metadata:

(a) Approximately. Overlap is 100% of groundwater recharge; all the groundwater is drained by the rivers and becomes the low flow of water courses. The ground is a base rock so there is probably no groundwater flowing out.
(b) The rule of 50% of border flow was applied to the Mihno river. So 6 km3/yr are accounted as additional external resource.