

Why we have to avoid presentation of NRW in percentages

Written by Administrator

Saturday, 07 October 2017 10:56 - Last Updated Wednesday, 17 January 2018 15:28

Supporters of PaP Initiative

Supporters of Initiative 'Professionals abandon Percentages of SIV (PaP)'

**Now 132 Supporters from 24 countries;
Register your support if you wish to join them**

The individuals, Companies and Organisations below have voluntarily registered their active approval and encouragement for this LEAKSSuite initiative.

They have ceased to support the use of % of System Input Volume, or % of Water Supplied, as Key Performance Indicators for:

- Setting targets and tracking progress
- Technical and Financial Performance Comparisons
- General Conclusions regarding management of Non-Revenue Water, Unbilled Authorised Consumption, Water Losses, Apparent (Commercial) Losses and Real (Physical) Losses in Water Supply Systems.

Alternative KPIs which do not suffer from the deficiencies of % of SIV and % of WS have increasingly been available for these purposes since 2000.

If you wish to, you can also voluntarily [register your support](#) for this initiative.

Dec 27th 2016

Search:

Countries	Entities	People	Supporters of LEAKSSuite Professionals abandon %s of SIV Initiative	Date added
24	82	132	Name, Affiliation, Company, Organisation as at 21 Sep 2017	
Argentina	2	1	Ignacio Pella, Water and Energy specialist consultant	Sep 17
		1	Miguel Durando, NRW Management Specialist Consultant, Aguas Santafesinas S.A, Santa Fe Province.	Sep 17
Australia	3	1	Hugh Chapman, Regional Director, Asia Pacific, Pure Technologies	Jan 17
		1	Carlos Mustoni, Director, Water Loss & Pressure Management Pty Ltd, Logan	Mar 17
		1	Stuart Stapely, Manager (Victoria), Water Loss Management Pty Ltd, Melbourne	Mar 17
Austria	2	1	Dr Joerg Koelbl, Blue Networks e.U Consulting Engineers, Leibnitz	Dec 16
		1	Roland Liemberger, NRW Management Advisor, MIYA	Dec 16
Bosnia-Herzegovina	1	1	Djevad Koldzo, Independent Consultant for Non-Revenue Water	Aug 17
Brazil	2	1	Fatima Carteado, Manager of MF&E Engenheiros Associados, Salvador	Dec 16
		1	Julian Thornton, Thornton International, Sao Paulo	Dec 16
Bulgaria	1	7	Dr Atanas Paskalev, Managing Director, Aquapartner Ltd, Sofia	Dec 16

The acknowledged British NRW expert Allan Lambert has invited all his colleagues to join and support the initiative by which it is expected that the practice of showing the amount of Non-Revenue water and losses as a percentage of the delivered or input water volume in the system will cease and that it will not can be a Performance Indicator.

So far, this initiative has been supported by 132 NRW professionals from 24 countries. A list of professionals who have supported the initiative so far can be seen [here >>>.](#)

Regrettably in most water supply in Bosnia and Herzegovina and in the region, it is still common for Non-Revenue Water as well as for losses to be expressed in percent, although this approach is completely wrong, as is clearly shown in the following example:

Let's say that one water supply system supplies 1000 m³ of water every day, and that 250

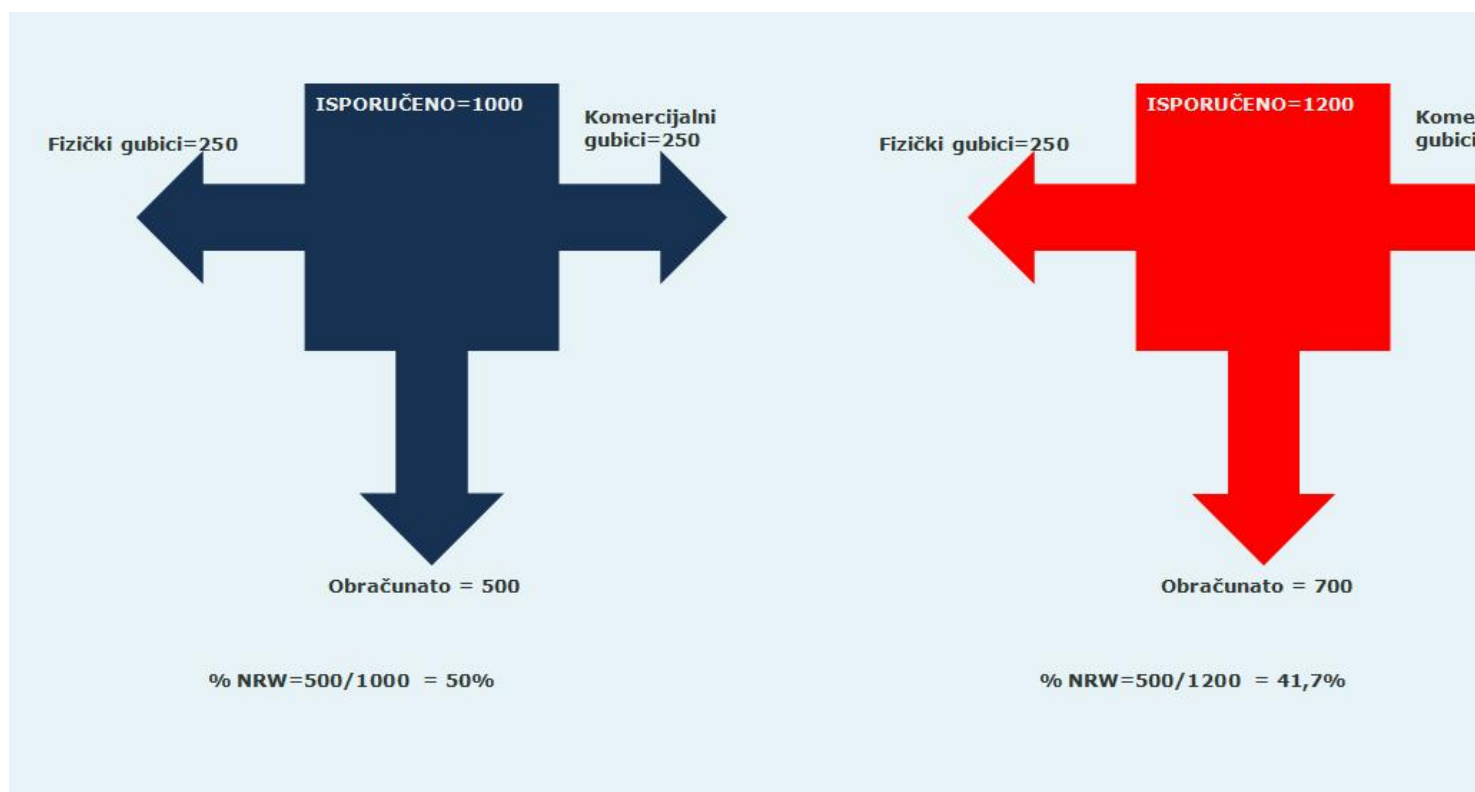
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m³/day of water is lost through the Real losses and the same amount (250 m³/day) through Apparent losses. On the basis of the above, revenue water is the 500 m³/day, respectively the same amount of non-revenue water, accordingly, NRW = 500/1000 and NRW = 50%.

Furthermore, let's take that in same water supply increase the number of consumers and the quantity of water supplied, as well as the revenue water per 200 m³ / day. Now the situation would be that the delivered water quantity is 1200 m³/day, until the total losses (Real + Apparent) remained the same and did not change and still amount is 500 m³/day, and resulting in 700 m³/day. If the ratio of Non-Revenue water is now expressed in percentages, NRW = 500/1200 and NRW = 41.7%, regardless, any real improvement didn't do.



Based on stated, the NRW has been reduced for 8.3%, although it has absolutely no any loss reduction, what clearly shows how wrong is this approach is and how much it can create the wrong picture.

The alternative and only correct approach for water loss presentation through utilisation of the

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IWA Performance Indicators system evaluated on the basis of the IWA water balance by calculation based on the measurement of minimum night flows hydraulic measurement in the DMA , and in particular with presentation of the Infrastructure Leakage Index when it comes to physical losses, or ALI Apparent Losses Index) when it comes to commercial losses.

You can read more about IWA methodology and performance indicators [here](#) .