

MINISTRY OF INTERIOR HUNGARY

Waste water solutions

for settlements under 2000 PE in Hungary

Gabriella Krempels Murányiné

Head of Department Department for Water Management

Video-workshop on rural wastewater management ICPDR

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CONTENT

- Introduction of Hungary waste water
- Hungarian settlement structure
- Waste water agglomerations
- Status in figures under 2000 PE
- Technical solutions under 2000 PE
- Legal regulation
- Main future plans



Accession Treaty to the EU: 1st May 2004

Population: 9,8 million people Area: 93.036 km²

Urban Waste Water Treatment Directive: 91/271/EEC

Obligatory deadlines for Hungary 31. 12. 2008, 2010 and 2015.

National Waste Water Implementation Program

Continuous reporting every second year:

latest: 30 June 2020; with reference date of 31. 12. 2018

Member State – duty: settlements above 2000 PE

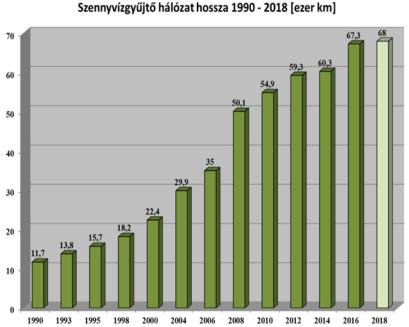
- country responsibility: settlements under 2000 PE

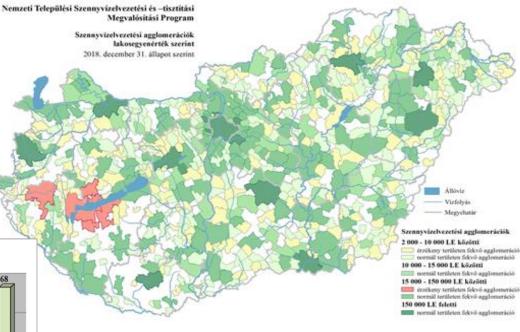
Waste Water Agglomerations



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Length of collecting systems 1990-2018 (th. km)



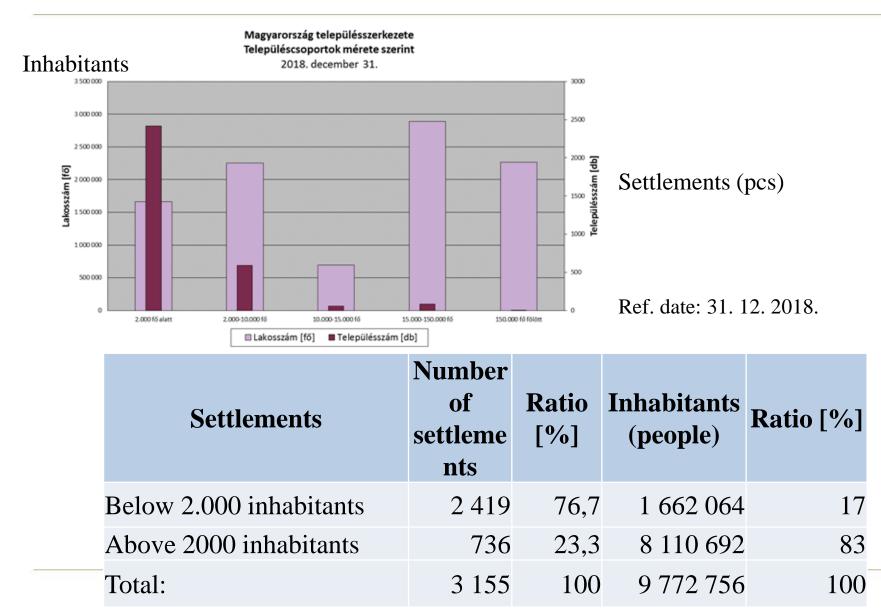


Total: load: 12. 770.00 PE

Hungarian Settlement Structure



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5

Status in Figures under 2000 PE



Type of solution	Number of settlements	Inhabitants (people)
Sewer (existing or under construction) with regional WWTP	1142	990.767
Sewer with WWTP under 2000 PE	231	176.236
Rural Development OP (2007-2013)	107	83.632
Rural Development OP (2014-2020)	53	12.690
Waiting for a regional project	221	13.144
Under a preliminary analysis	665	313.747



Technical Solutions under 2000 PE

- Sewer network and local or regional WWTP
- Closed tanks cesspools no treatment on site and transportation to a WWTP
- Local and decentralized solutions below 50 PE
 - Septic tank
 - Biological treatment unit
 - Units with "Green ideas", artificial filter plant, lakes, etc.

Legal Regulation I.



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- Technical regulation, monitoring and Municipal Waste Water Plan (147/2010. (IV. 29.) Gov. Decree)
- Creating agglomerations, data-base (379/2015. (XII. 8.) Gov. Decree)
- Effluent standards for WWTP-s and surface water receivers (220/2004 (VII. 21.) Gov. Decree and 28/2004. (XII. 25.) KVVM Decree)
- Soil receiver (219/2004. (VII. 21.) Gov. Decree)
- Effluent standards for individual solutions (30/2008. (XII. 31.) KVVM Decree)
- Compulsory public service for not-connected dwellings (378/2015. (XII. 8). Gov. Decree)
- EN 12566-1 for septic tank and EN 12566-3 for biological treatment unit

Further relevant: Kvassay Jenő Plan, as Water Strategy (2017.)





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- Water authority (Disaster Management Authority, county level)
- Environmental and soil protection authority (Governmental Office, county level)
- Settlement level (assembly, notary)
- Data base (settlement level)
- Main questions to be cleared when planning/creating new systems:
 - receiver,
 - sensitive area, karst area, drinking water base, ...
 - soil conditions for infiltration,
 - groundwater level,
 - effluent amount is above or below 500 m^3 /year,
 - is it a unique project, or based on a settlement level?



Main Future Plans

- Helping the settlements to find the appropriate and sustainable technical solution.
- Find a long term financing solution: Recovery and Resilience Facility, 2021- 2027 GIOP, and beyond 2028.
- Upgrading the informatics system, and the data quality, the scope of monitoring data.



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THANK YOU FOR YOUR KIND ATTENTION!