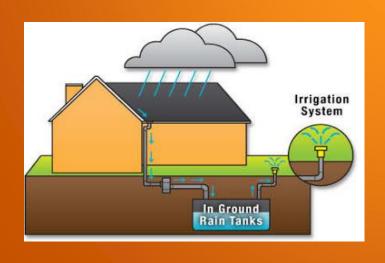


Rainwater Harvesting:

Ecosystem-Friendly Way of Cost Reduction of Water Supply and Urban River Pollution



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European Framework Directive 2000/60/EC

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several ways to reach this goal:

- "a good ecological and chemical status" of European waters is to be reached
- effective public sewage treatment facilities
- restoration of nearnatural riverbeds
- more stringent regulation for industrial discharges

EFD, 2000/60/EC



- a good ecological and chemical status of European waters
- a supplementary measure:



to limit the quantity
of rain water
that reaches the
facilities and streams

Storm water runoff

 storm water runoff contributes to pollution of rivers and other streams in the citites







Urban roof-top rainwater harvesting



- reduces costs of water supply
- reduces costs of wastewater treatment facilities





Rainwater harvesting

 use of various storage tanks





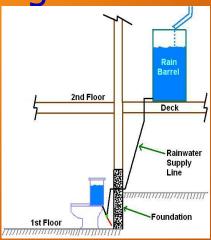




Water supply cost reduction (individual/private costs)

- garden watering
- car and veranda washing
- flushing toilets, washing machines





Water supply cost reduction (general/public costs)

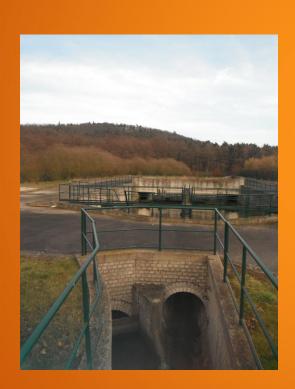


Photo. Rainwater treatment facility, Prague

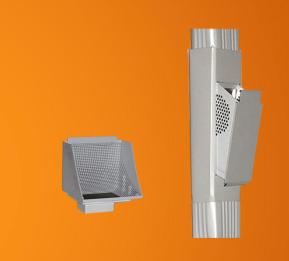
Savings:

- reduction of costs on by public sewer system(s)
- reduction of damage by flooding and polluting sewer overflows
- indirectly: energy savings (on drinkable water production)

Water supply cost reduction (private and/or public costs)

Expenses:

- water cisterns, barrels, filters, etc.
- pumps, adaptation of piping/plumbing systems





Public programs/policies promoting water harvesting in the cities



- Japan, South Korea
- U.S.A.



 direct regulation, financial support (free barrels)

Conclusion Rainwater harvesting



eco-system friendly

 possible reduction of financial costs

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THANK YOU FOR YOUR ATTENTION!

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