

FLL 2017/2018
Hydro Dynamics
Team Öökullid



Project:

Problem

Water is being wasted, if we change the water temperature.

Why is it a big problem?

We use every day about 200L water in Estonia, of what 20% is being used to change the water temperature. At the same time needs for clean fresh water get bigger.

Our solution:

Piping system, what checks the temperature and don't let it run before water temperature is right. Water, what would be wasted, will be directed to collecting tank, where it will be used for the toilet.



How have we shared ideas with?

Construction companys:

Jaak Pallo – Harmet ehitus

Veiko Laev – Iveix ehitus OÜ

Aivar Lehtmets – Remet ehituse OÜ

Argo Kübar – RVT ehitus

Tarmo Oidjärv – Espak AS

Rein Kiudsoo – Irest ehituse AS

TTÜ mechatronics lector - Leo Teder

Friends & family

We made tests:

Because this problem have left unnoticed we have to rely on our personal tests.

Because by our team we get data from 9 reidences, we made using facebook a google docs research, where people cud vounteerly do tests and send results to us. The survey recived total 54-test results. The results are:

Going to shower:

Gas boiler 18-20l of water

Electric boiler 2-5l of water

Drinking glass(250ml) of cold water

With any boiler 750ml of water