

Sustainable rainwater harvesting and utilization system at the airport

Name of eco-innovation demand	Sustainable rainwater harvesting and utilization system at the airport
Company / organisation	Budapest Airport Zrt.
Country	Hungary
Website	www.bud.hu
Description of required eco-innovation / solution / technology / resource / knowledge / product / service	Budapest Airport Zrt. are looking for an environmentally friendly solution regarding the management and treatment of airport rainwater.
Background	<p>Budapest Airport has been developing its environmental performance for years, where protection of groundwater and surface water is a key issue.</p> <p>Airports are suitable for rainwater harvesting at a larger scale, because they have institutional and infrastructural advantages compared with cities.</p>

<p>Description of challenge to be solved</p>	<p>Separate sanitary sewer systems have been built at the airport. Rainwater from the vicinity of Terminal 1 flows, via a gravity drainage system, into the water reservoir lake located at the airport, and is then pumped, via a pressurized sewer, into the gravity water drainage system operating at Terminal 2. From there, rainwater is channelled via a gravity conduit into canal number 171 and 17. Canal 17 flows into the Maglódi canal, which in turn is a tributary of the Gyáli creek. The problem recently is that the rainwater collected during winter time can contain different pollutants from deicing activities, namely urea and glycol.</p>
<p>Preferred stage of development of solution</p>	<p>Preferred stage of development of the solution / technology: <i>Technology readiness level (TRL):</i> TRL 7 or above. TRL 7. System prototype demonstration in operational environment; TRL 8. System complete and qualified; TRL 9. Actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies)</p>
<p>Preferred form(s) of cooperation, collaboration</p>	<p>Open to negotiation</p>
<p>Language(s) of communication</p>	<p>English, Hungarian</p>
<p>Contact at the company / organisation</p>	<p>For more information, technical requests please contact the organisation: Budapest Airport Zrt. BUD International Airport 1185 Budapest HUNGARY <i>Email:</i> kornyezetvedelem <at> bud.hu</p>

Keywords

#eco
#demand
#innovation
#technology
#solution
#system
#airport
#aviation
#rainwater
#waterharvesting
#water
#utilization
#wastewater
#sewer
#drain
#pollutant