



Rebuild your non-performing EGSB Reactor

Get the ICX[®]perience and make optimal use of your existing tank

EGSB Rebuild in Pictures



Roof of existing EGSB tank is removed



Internal settlers are substituted by ICX[®] internals



EGSB is now an ICX[®] reactor at a minimum investment



Old EGSB internals replaced by Paques

The challenge

- Many EGSB reactors face operational problems:
- Continuous or sudden sludge loss
 - Periodic clogging of settlers
 - Poor mixing
 - Not achieving design performance

The solution

- Paques' ICX[®] reactor combines the excellent performance of the IC[®] reactor with the ability to retrofit into existing tanks
- The EGSB internals are removed from the tank and substituted by ICX[®] internals
- The excellent 2-stage biomass retention eliminates sludge washout
- Original design performance can be achieved and even exceeded!

The benefits

- The ICX[®] reactor works with a higher biomass volume, allowing for an increase in VLR and thus a higher COD load
- The existing tank is used, minimizing CAPEX
- No more sludge loss, and produce valuable granular biomass instead, generating important savings in OPEX
- Stable operation, high efficiency and conversion to biogas, no more headaches!

Numbers from a real case (Paper Mill in Europe)

	BEFORE	AFTER
COD LOAD	Customer had one EGSB (reactor volume 1350 m ³) treating 13 tons/day of COD and one EGSB (reactor volume 2400 m ³) treating 24 tons/day of COD	The larger EGSB reactor was rebuilt as an ICX [®] reactor. After the rebuild, it was able to treat 70 tons/day of COD. The smaller EGSB reactor was then converted into a sludge storage tank
BIOMASS	Customer lost tons of sludge per month	After rebuild, the reactor is showing a net biomass growth, allowing the customer to sell the surplus.