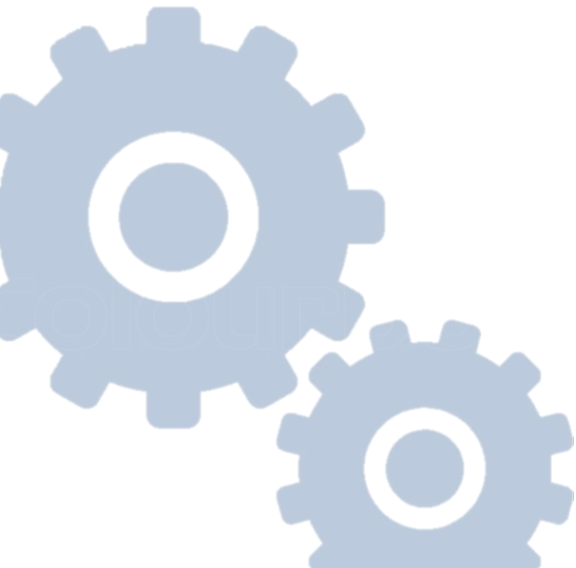


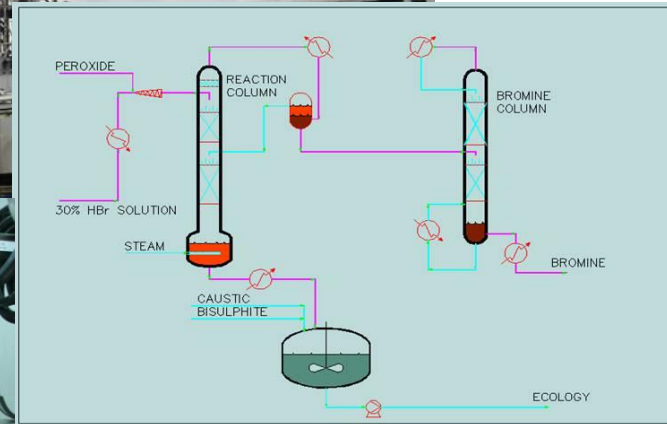
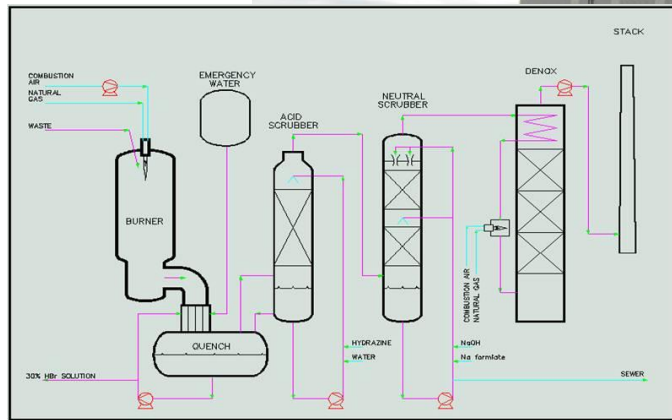


PolyStyrene Loop



Gorinchem , 26. October 2016

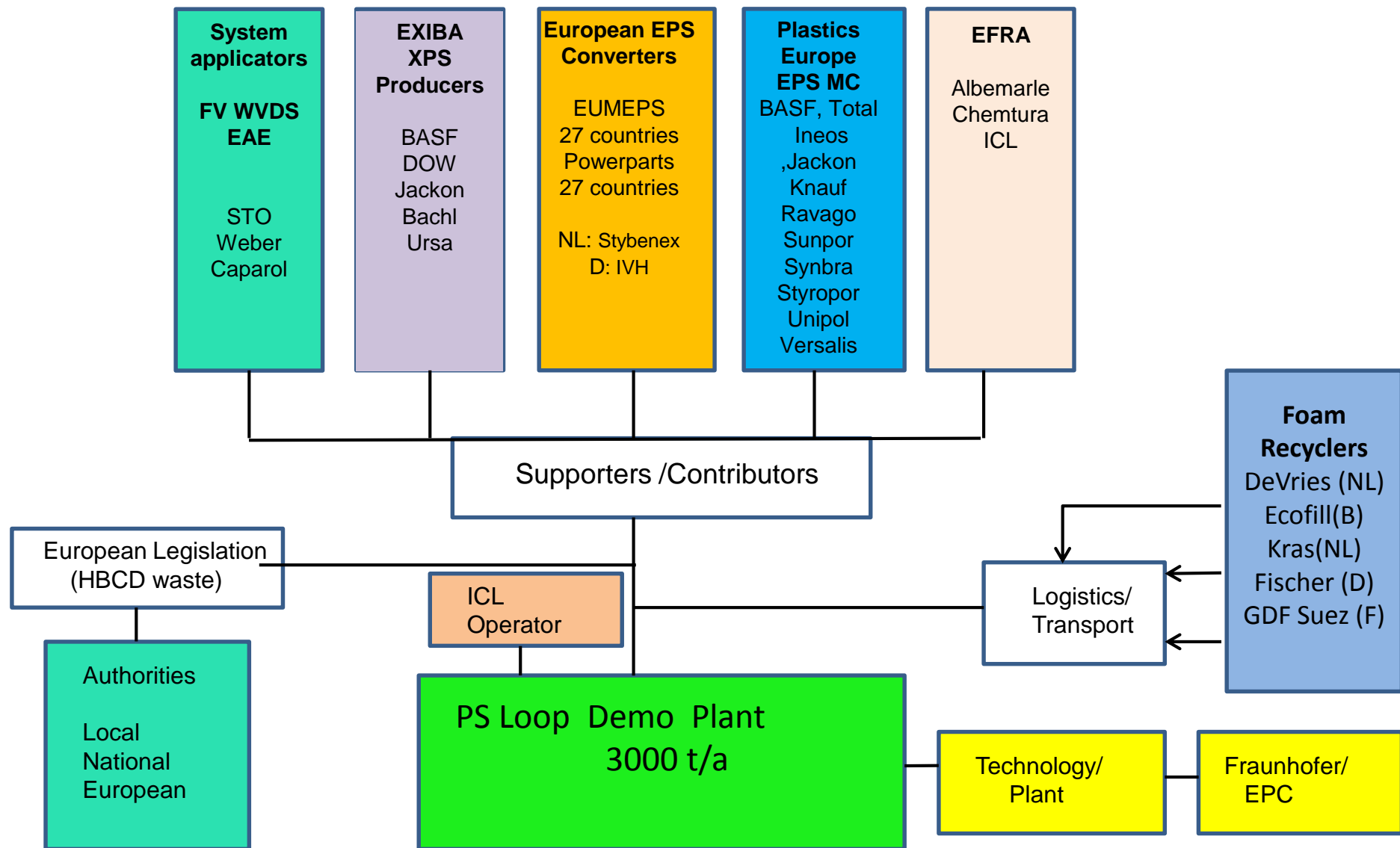
PROJECT VISION – PSLoop project using CreaSolv® Process Destructing HBCD, recovering bromine and polystyrene from waste foams



OBJECTIVES OF THE PROJECT

- A sustainable solution for HBCD containing PS foam via a dissolving technique with bromine recovery.
- Material recovery of HBCD-containing polystyrene foam waste into PS and bromine
- PS foams–HBCD-POPs-Basel Convention
- EPS industry gearing towards a more sustainable economy and embracing the circular economy
- Build a PSLoop Cooperative demonstration plant to show the technical feasibility recycling the polymers of EPS, XPS and destructing HBCD and closing the loop for PS and bromine contributing to the Circular Economy
- Investment 6 million € , Value chain 1,3 mil€ Form cooperative

Value chain partners and sponsors

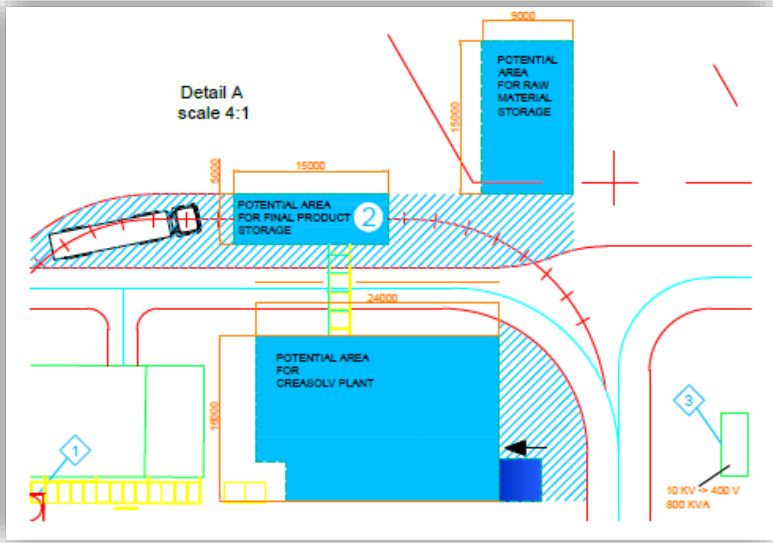


Planned location of PSLoop demo plant



ENGINEERING: First Layout

EPS/ XPS



Proposed separation at NL community yard

Packaging shapes

Odd shapes

Construction boards

Rectangular (white/grey)

PIEPSCHUIM HEET NU AIRPOP

airpop[®]
engineered air

INZAMELZAK

**RECYCLING VAN
EPS/PIEPSCHUIM
VERPAKKINGEN**

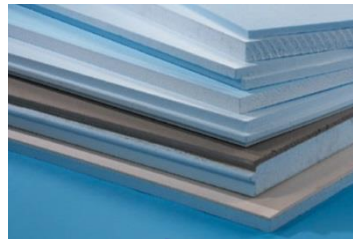


UITSLUITEND VOOR:
SCHONE, WITTE OF GRIJZE
EPS VERPAKKINGSDLEN

NIET VOOR:
ANDERE MATERIELEN
ETIKETTEN • TAPE
OPVULCHIPS



STYBENEX
Vereniging van EPS
fabrikanten



airpop[®]
engineered air

INZAMELZAK

**RECYCLING VAN
EPS/PIEPSCHUIM
BOUWMATERIELEN**



UITSLUITEND VOOR:
SCHONE, WITTE
OF GRIJZE EPS
BOUWMATERIELEN

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ANDERE MATERIELEN
ETIKETTEN • TAPE
OPVULCHIPS



STYBENEX
Vereniging van EPS
fabrikanten

AIRPOP IS EINDELOOS RECYCLEBAAR

FR and non FR separation at source at the community yard

- Clean packaging
- Separation on shape and color at the NL millieustraat
- Recycling



FR and non FR separation at source at the community yard

- Construction waste contaminated with flame retardant
- Collection with residual waste
 - Incinerate or
- By choice
 - Recycling in Terneuzen 2018
 - Compensation 250€/t DDP Terneuzen

