

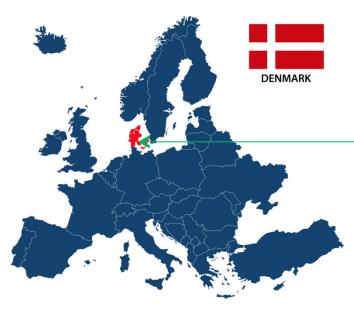


Public Procurement in Healthcare:

Plastic packaging and tender requirements

Aarhus Universityhospital in Central Denmark Region









Aarhus Universityhospital



Key facts

Clinical departments: 44

Number of beds: 1,150

Annual activities:

803,100 out-patiens visits 40,749 emergency visits 94,329 discharges 83,202 surgeries 44,600 endoscopies 4,876 births

Staff:

10,200 employees (9,400 full-time positions)

Denmark's best hospital 2017



The Department Managements for the 11 treatment areas who won an award for being number one in their field (photo: Michael Harder, Aarhus University Hospital).

For the tenth year running, Aarhus University Hospital is Denmark's best hospital. The independent specialist newspaper on healthcare sector news "Dagens Medicin" has appointed Aarhus University Hospital as the best in their competition to become Denmark's best hospital.

Waste at Aarhus Universityhospital



2017:

3.200 t solid waste/y

- 16% Recycled
- 83% Waste to energy
- 1% Landfill

2030:

xx t solid waste/y - ?

- 50% Recycled
- 49% Waste to energy
- 1% Landfill

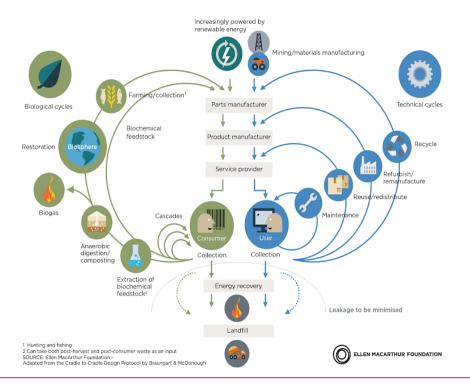




What is Circular Economy (CE)?



CIRCULAR ECONOMY - an industrial system that is restorative by design





Plastic packaging waste at AUH



500 kgs of solid waste contains
90 kgs of plastic packaging

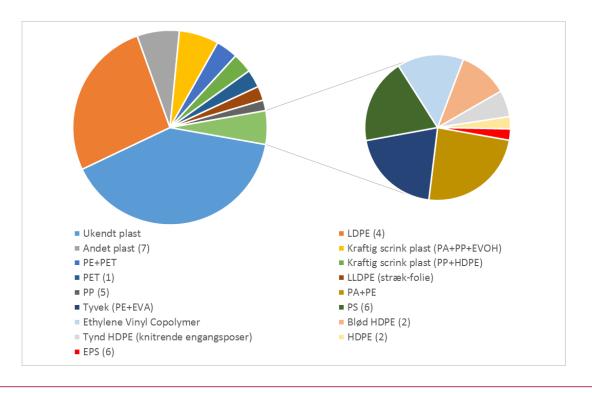
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18% of solid waste in Aarhus Universityhospital is clean plastic packaging



Plastic packaging – a complex fraction

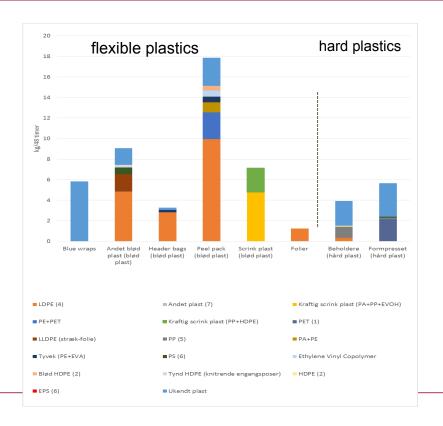






Majority is flexibile plastics







The PP Pilot Case – Bottles for irrigation









Pilot case – tender requirements



Rec	CyClass TREE VICLUS BLEE PE	PP Natural Containers		
		Materials that passed the testing protocols with no negative impact OR materials that have not been tested (yet), but are known to be acceptable in PP recycling	Materials that passed the testing protocols if certain conditions are met OR OR materials that have not been tested (yet), but pose a low risk of interfering with PP recycling	Materials that failed the testing protocols OR OR OR materials that have not been tested (yet), but pose a high risk of interfering with PP recycling
Cc	ontainer	PP		multilayers PP + (PLA; PVC; PS; PET; PETG)
Co	olours	natural; colourless	light colours	black inner layer; black
Ba	arrier			EVOH; PA; PVDC
Ac	dditives			additives changing the material density > 1g/cm ³
CI	losure Systems	PP	PE-HD; PE-LD; PE-LLD; PE-MD PET; PETG; PS; PVC; PLA	foams with density < 1 g/cm²; alumies
Li	iners, Seals & Valves	PP	PE-HD; PE-LD; PE-LLD; PE-MD PET; PETG; PS; PVC; PLA removable aluminium fasteners	aluminium.
Slo	leeves	PP	PE-HD; PE-LD; PE-LLD; PE-MD PET; PETG; PS; PVC; PLA	areea sleeves
La	ables & Adhesives	PP labels; water soluble releasable adhesive (less than 40°C)	PET. DE	aniesives; self-adhesive labels; aluminium;
In	ıks	non toxic - follow EUPIA Guidelines	931110	inks that bleed; toxic or hazardous inks
Di	irect Printing	laser marked; produ	ga.	any other direct printing
Of	ther components	: :4del3	er; PETG; PS; PVC; PLA	aluminium; foams with density < 1 g/cm ³
E the blue				
Closure Systems Liners, Seals & Valves FP Liners, Seals & Valves FP Lables & Adhesives PP labels; water soluble releasable adhesive (less than 40KC) Inks Direct Printing Other components Other components Other biddelines None Of the biddelines			Minimum requirements It is a minimum requirement that the bottles offered had clear marking on how the polymers used can be recyclusing the 7 international recycling symbols. The order	

Minimum requirements

It is a minimum requirement that the bottles offered have a clear marking on how the polymers used can be recycled. using the 7 international recycling symbols. The orderer preferes marking that follows the CEN Recommendation WI 261 070, but accepts marking following the EU Commission Decision 97/129/EC.

Competitive parameters

The label consists of PP_

ging consists of one polymer

% of the gi

niners, seal or valve in cap/capsule consist of HDPE, LDPE, PP or PF+FVA

Tamper-ring consists of PP, PE, EPS or OPP and has a density of less than 1 g/cm3

Glue is soluble in water at less than 80 degrees Celsius

Printing ink is non-toxic based on EUPIA guidelines

Direct print is laser-based

The competitive parameter is weighted with 5%



Three tenders



Tender	Tender sum app.	Criteria
Irrigations fluids (2018)	7,5 mio USD	Minimum criteria + Compititive parameters 5% Weight
Non-clinical-single-use utensils	7,5 mio USD	Minimum criteria + Non-wanted chemicals + Ecolabels
Stomiproducts	22.7 mio USD	Minimum criteria + Compititive parameters











Tender Criteria I: Reduce

- -Reduction of packaging
- -Include recycled material in secondary and tertiary packaging







Tender Criteria II: Re-use

-Develop take-back systems where ever relevant/possible





Tender Criteria III Recycle

Do:

- Monopolymer packaging.
- PP, PE and PET.
- Mark for recycling.

Dont:

- PVC.
- Laminates (?)
- Combinations of paper and plastic.







Thank you for listening!

Contact:

Susanne Backer CE Project Manger Aarhus Universityhospital

P ++41 40328360 M: suback@rm.dk



Aarhus University Hospital