Studsvik

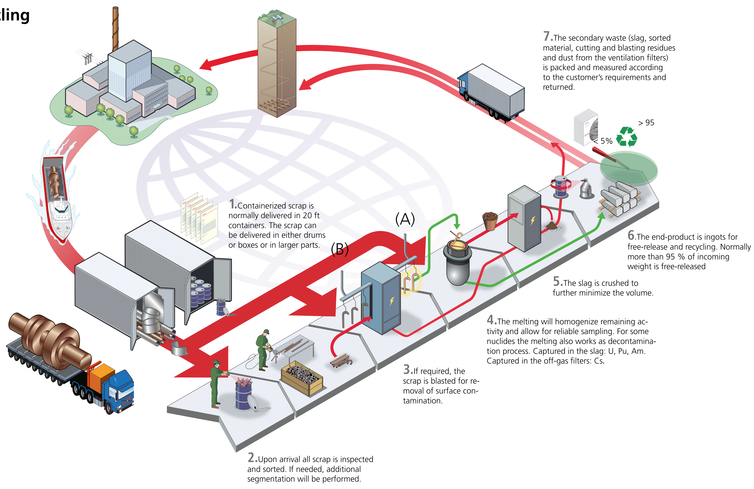
Proven concepts for LLW metals

Real world example of waste treatment of LP turbine

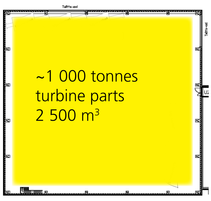
Volume Reduction and Recycling
For main stream waste treated at our facility in Sweden, we expect to free-release at least 95 % of incoming weight and return a maximum of 5 % of residual secondary waste.

Logistics
Studsvik can provide transport co-ordination and on-site assistance.

Containerized Scrap Categories
- Ready for direct melting (A)
- Decontamination, blasting and melting (B)
- Segmentation, decontamination, blasting and melting



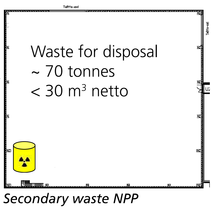
Store at NPP



Loading at NPP

Vessel

Secondary waste NPP



Treatment at Studsvik

Unloading at Studsvik

Turbine components, initial waste weight and volume: 1000 tonnes / 2500 m³

Weight and volume of Secondary Waste from the waste treatment:

	Weight, tonnes	%	Volume
• segmentation residue (cutting slag)	30	3,0	12 m³
• decontamination residue (blasting waste)	1	0,1	0,1 m³
• slag from melting	18	1,8	1,8 m³
• dust from ventilation equipment	2	0,2	0,2 m³
• ingots not possible for clearance	20	2,0	2 m³
Total secondary waste	**70 tonnes – 30 m³**		
Volume reduction factor	**98,8 %**