

Landscaping of ISO standards for resource recovery

Standard number	Standard title	Specific item focused
<i>Treatment of sludge to recover resources</i>		
ISO 20736	Sludge recovery, recycling, treatment, and disposal – Guidance on thermal treatment of sludge	Thermal treatment (eg. Drying, hydrolysis, incineration, pyrolysis, gasification)
ISO 19388 (<i>Under development</i>)	Sludge recovery, recycling, treatment, and disposal – Guidelines for operation of anaerobic digestion facilities	Anaerobic digestion (ISO DIS 19388 : Sludge recovery, recycling, treatment and disposal – Guidelines for the operation of anaerobic digestion facilities (ihs.com)): to produce sufficient energy recovery thanks to a sufficient biogas production in proportion to volatiles solids ratio and to control by-products qualities)
ISO 23898 (<i>Under development</i>)	Gasification systems for bio-syngas and biomethane production	Gasification (Bio-syngas and biomethane)
<i>Usage/measurement of the recovered resource</i>		
ASTM E1107-15	Standard test method for measuring the throughput of resource – recovery units operations	Resource-recovery unit operations
ISO 19698	Sludge recovery, recycling, treatment, and disposal – Beneficial use of biosolids – Land application	Biosolids
ISO 22707 (<i>Under development</i>)	Sludge recovery, recycling, treatment, and disposal – Guidance on the processes and technologies on inorganics and nutrients recovery	Inorganics and nutrients
ISO 18122	Solid biofuels – Determination of ash content	Solid biofuels
ISO 18125	Solid biofuels – Determination of calorific value	Solid biofuels
ISO 16948	Solid biofuels – Determination of total content of carbon, hydrogen and nitrogen	Solid biofuels
ISO 27912	Carbon dioxide capture – Carbon dioxide capture systems, technologies and processes	Carbon dioxide