

WOOW Series:

Acetaldehyde
Acetic Acid
Aluminium Chloride
Ammonium Sulfate
Butyraldehyde
Cellulose
Dimethyl Sulfoxide
Dimethyl Sulfide
Formaldehyde
Formic Acid
Glycerol
Glycolic Acid
Glycols
N-methyl pyrrolidone
Phosphoric acid
Potassium Carbonate
Potassium Chloride
Potassium Hydroxide
Potassium Nitrate
Potassium Sulfate
Phenol/Phenolics
Polyglycerol
Para Toluene Sulfonic
Silica
Sulfuric acid
Sodium Bromide
Sodium Bisulfite
Sodium Chloride
Sodium Formate
Sodium Hydroxide
Sodium Metabisulfite
Sodium Sulfate
Sodium Sulfite
Sodium Silicate
Sodium Thiosulfate

Go Green Profitably

Economically Recover Sodium Sulfate from waste water stream.

Geist Novel Antisolvent Technology is the preferred solution for separation of Sodium Sulfate from its aqueous stream.

Typical Case study:

Aqueous Stream Capacity	= 20000 kg/day with 20% Sodium sulfate
Value of Sodium Sulfate in waste stream	= Rs 100 lacs per Annum
Cost of treatment	= Rs 20 lacs per annum*
For Sodium sulfate Anhydrous (98.5% pure) recovery by Antisolvent Technology:	
Cost of Separation	= Rs 4 /kg of Sodium sulfate
Cost of Major Equipments	= Rs 22 lacs **
Other Project Costs	= Rs 30 lacs
Savings	= Rs.70 lacs/Annum

Payback Period = 8 months

Advantages:

1. Complete recovery of Sodium sulfate.
2. Significantly lower capital expenditure.
3. Works in presence of other organic or inorganic impurities.
4. Saving in the overall production cost because of increased recycle & reuse.
5. Reduced load on treatment and / or disposal.
6. Environmental friendly process and can be converted to zero discharge.
7. Very attractive return on investment (typically less than a year)
8. Easy to operate.

* Triple effect evaporator with steam economy 0.4 and Steam cost Rs 1/Kg
** Separation cost & Cost of equipments is case specific and may vary with the concentration of Sodium sulfate, stream quantity, availability of waste heat and other impurities present.