Preliminary Design

Start of the project

Analysis and documentation of customers requirements

Developing a project time schedule

Examination of production process

Measures

Identification of different mass throughputs (liquid, solid, gaseous)

Avoidance/ Minimisation possible?

yes

no

Definition of objective targets

Separation of potential Recyclable substances | Re-use of water | Waste water treatment | Optimisation | etc.....

Recycling of separated goods

Marketing of separated goods

Regulatory requirements

Production planning

Analysis of technical framework

Quality of raw water

Quantity of raw water

Existing infrastructure

disposal situation for solid waste

Preselection of suitable treatment technologies and technology-combinations

Approximate design (geometry, expected efficiency etc.)

Modification of strategy

Preparation of a new treatment draft

Modification of strategy

Create basic planning documents

Estimation of running and investment costs

no

Profitability?

yes

no

no

Standard application?

Laboratory testing

Successful?

yes

yes

procedural and hydraulic

P&ID flow

Equipment assembly

Process control

Layout

Profitability calculation

Detail Engineering

Detail planning

Quality testing

Manufacturing

Inspection and approval

Installation

Training of staff

Commissioning

Instruction for erection, operation, and maintenance

Optimisation

Turnkey delivery

Project Realisation