

MARITIME
INDUSTRY



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GREEN
ENERGY



AQUAFARMING



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“GREEN” ENERGY

Smed Engineering is capable of rising to even the greatest challenges facing the renewable energy field. We're relentlessly focused on making solutions for green technologies and green industries the focal point of society – driving the need for renewable energy at every possible turn.

Our engineers have had extensive experience with all aspects of designing innovative equipment for green industries. Smed has also had considerable experience in designing safe, economical and environmentally sustainable equipment for this field.

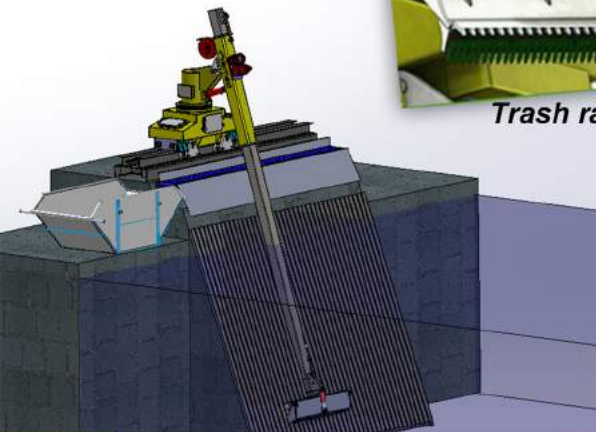
The following are examples of the actual experience we've had with providing both engineering and manufacturing solutions:

- Working on a facility for processing biomass (composting) and producing biogas.
- Designing hydro-mechanical equipment (penstocks, gates, trash rakes and trash rack cleaning machines, cranes) and other auxiliary equipment according to client specifications.

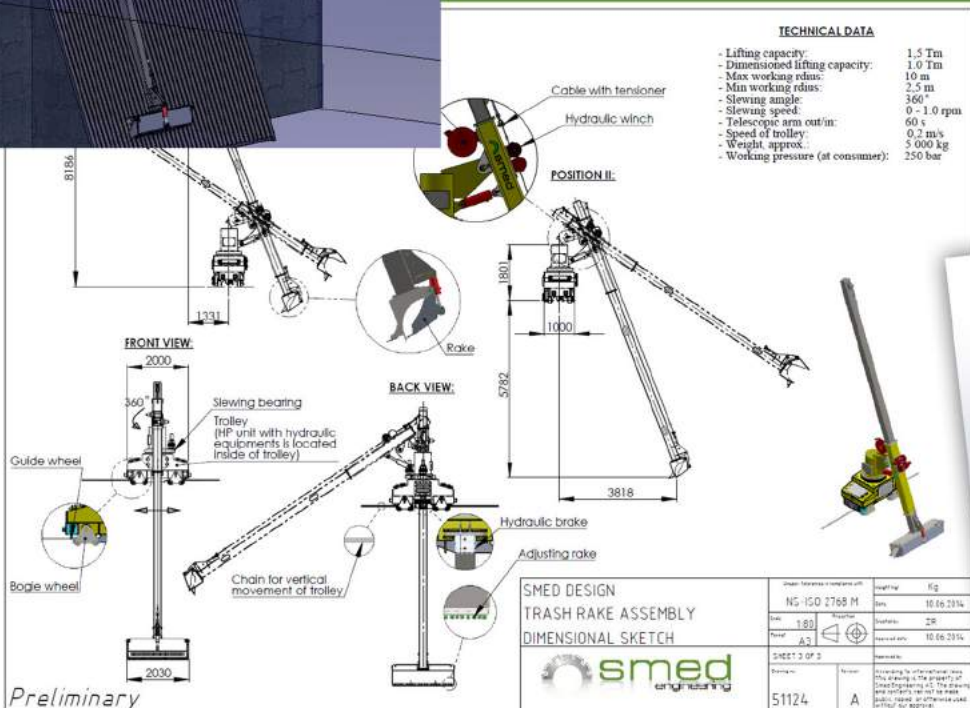
Trash rake



Trash rake detail

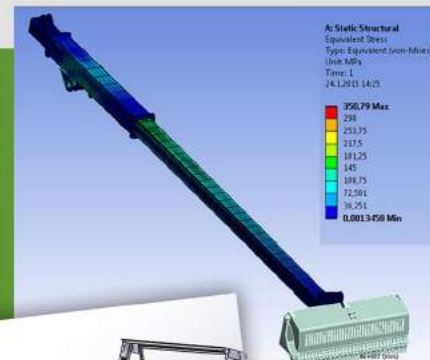


Trash rake sketches



TECHNICAL DATA

- Lifting capacity: 1.5 Tm
- Dimensioned lifting capacity: 1.0 Tm
- Max. working radius: 1.0 m
- Min. working radius: 2.5 m
- Slewing angle: 360°
- Slewing speed: 0 – 1.0 rpm
- Telescope arm out/in: 60 t
- Speed of trolley: 0.2 m/s
- Weight, approx.: 5 000 kg
- Working pressure (at consumer): 250 bar



SMED DESIGN
 TRASH RAKE ASSEMBLY
 DIMENSIONAL SKETCH

smed engineering

Drawn: 1.80	Checked: 28
Project: 62	Material: 10.56.2314
Sheet: 3 OF 3	Revision: A
Order: 51124	Scale: A

According to client's request, this drawing is the property of Smed Engineering AS. The drawing and contents may not be made public, copied, or otherwise used without our approval.

SMED'S DESIGN TEAM CAN:

- develop conceptual solutions based on a client's design specifications
- create 3D models of mechanical parts and facilities
- offer FEA/CAE Services:
 - Static Analysis – Linear Elastic and Nonlinear
 - Dynamic Analysis – Implicit/Explicit (Modal, Harmonic, Transient, etc.)
 - Advanced Nonlinear Analysis
 - Thermal Analysis
 - Fatigue Analysis
 - Computational Fluid Dynamics
- prepare technical drawings (equipment layout, GA drawings, production drawings, etc.), as well as user manuals
- work with clients on product specifications
- give presentations

When working on more complex design projects, Smed Engineering makes use of versatile engineering applications and modern software packages, including:

- SolidWorks
- Autodesk Inventor
- DraftSight
- ANSYS
- Mathcad
- Adobe CC

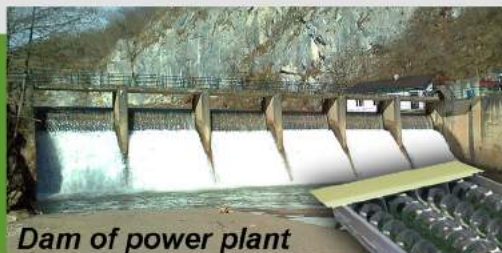
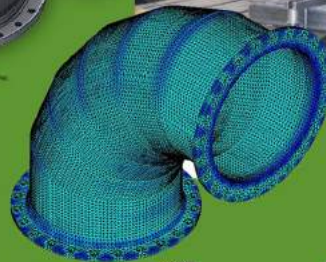
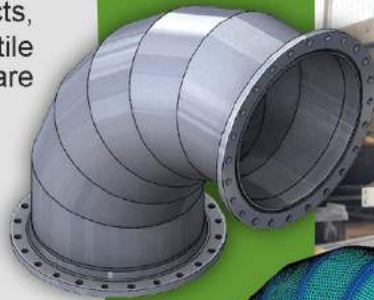
In addition to design services, we offer our customers production services for various mechanical parts and structures. The entire production process is constantly monitored and overseen by the Smed Engineering Team.

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The Smed Design Department creates virtual prototypes which help customers explore many design alternatives before the actual physical prototype and finished product are produced. R & D is an ongoing process which starts with the conceptual design phase, and includes feasibility studies and functional and production analyses which are carried out with computer-aided engineering software and product data management tools. This approach ensures flexibility during the entire design process, as well as the quality of the finished product. With the use of advanced software, Smed designers are able to reduce the occurrence of defects.



Pentstock

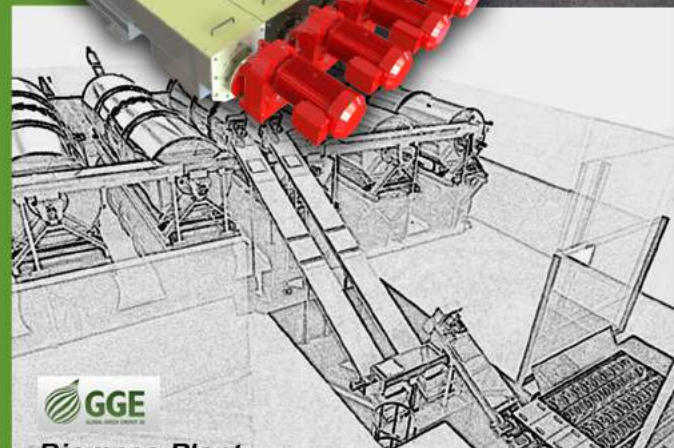
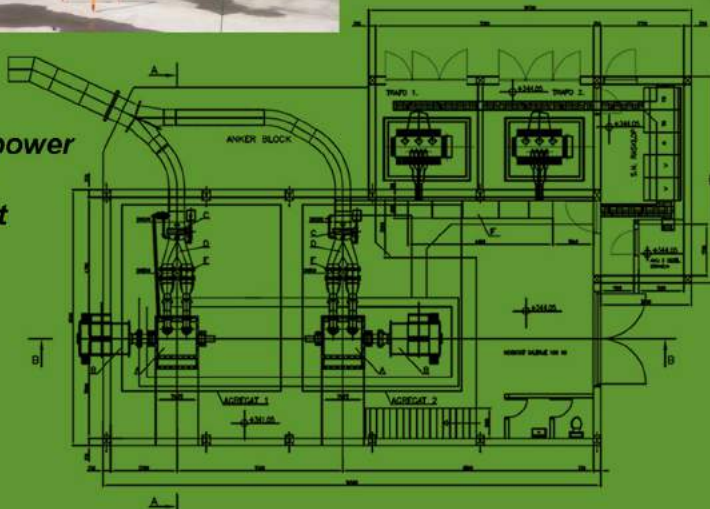


Dam of power plant

Multiple Spiral Conveyor



Mini power plant layout



Biomass Plant



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REFERENCES

- GGE AS,
- Small turbine partner AS,
- Andritz AS,
- Minikraft AS, etc.