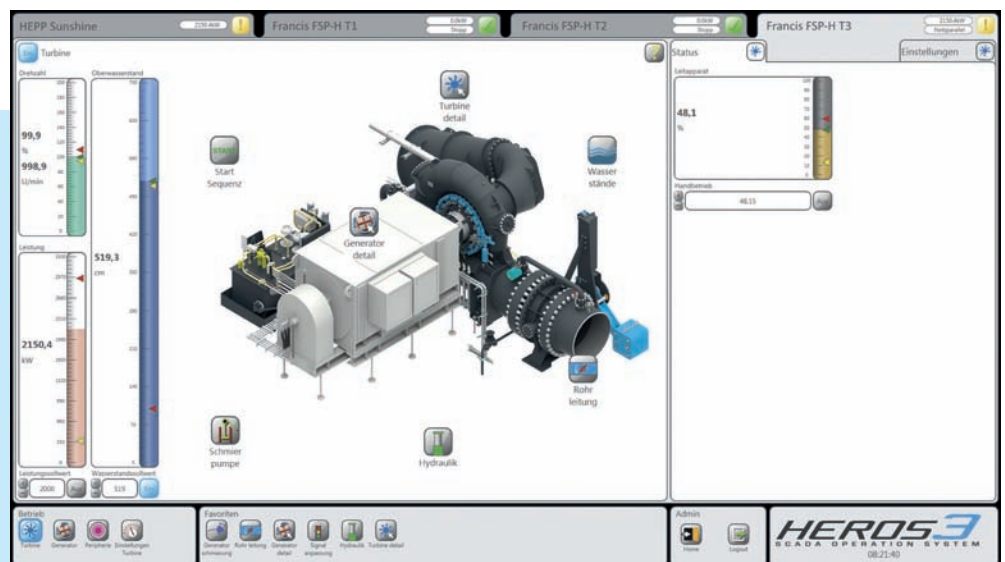


HEROS3

SCADA OPERATION SYSTEM

THE FULLY AUTOMATED TURBINE CONTROL SYSTEM INCLUDING INTEGRATED VISUALISATION AND SCADA SYSTEM BY GLOBAL Hydro.



HEROS3 is the automation solution for small and medium sized hydropower plants developed by GLOBAL Hydro. Besides of functionalities for the full automated turbine and generator control it also includes a full SCADA system to automate intake structures, switchyards and other powerplant facilities.

HEROS3 provides all features to be implemented into a smart grid. Special control algorithms are implemented to ensure that the powerplant is always operated at it's peak efficiency.

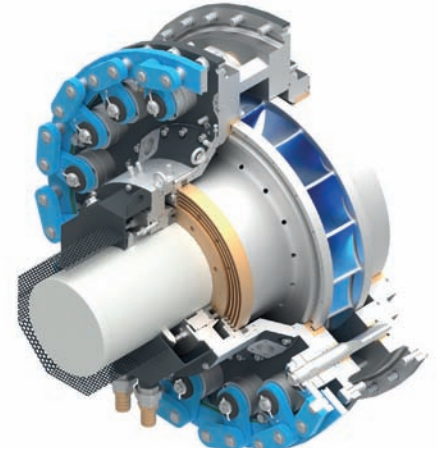


easy to operate

- ✓ intuitive multi-touch control
- ✓ individual configurable drag&drop menu
- ✓ free window allocation
- ✓ efficient and comfortable
- ✓ integration of personal user levels

safe for investors

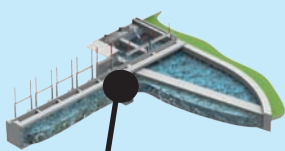
- ✓ multi-user-access
- ✓ supervision and monitoring
- ✓ compatible to common platforms
- ✓ database archiving
- ✓ access to saved values via secured internet connection
- ✓ logging of user accounts



smart grid solution

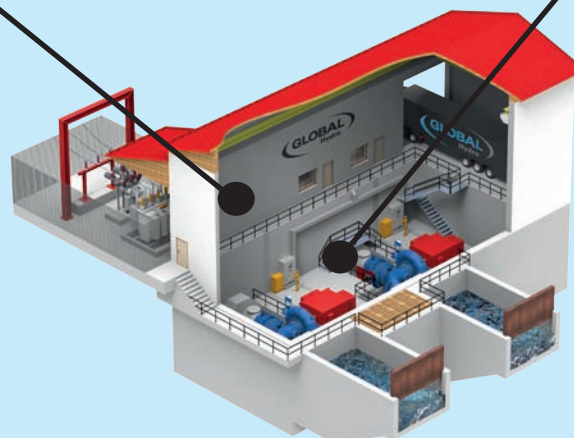
- ✓ all country specific specifications for smart grids
- ✓ voltage and frequency controlled turbine
- ✓ optimal efficiency with minimal wear
- ✓ standardized protocols
- ✓ remote control for grid (service) suppliers (if desired)

HEROS3 Hardware



WEIR
Gates
Weir Flap
Intake Gate
Trash rack
Level/rest-water control

PLANT
HV switchgear
MV switchgear
LV switchgear
Transformers
AC/DC Systems
Station service
Fire detection
Air-conditioning



TURBINE
Inlet Valve
Hydraulic
Lubrication
Gear
Cooling
Generator
Excitation
Synchronisation