

HYDRO ENERGY

Status

Overview

Control

Alarms

SYSTEM STATUS

START SYSTEM

STOP SYSTEM

Exit HMI

Reset

HOURLMETER

+0

+0

+0

+0

Days

Hours

Minutes

Seconds

IDLE MODE

HYDRO ENERGY

Status

Overview

Control

Alarms

PROCESS OVERVIEW

Rotor RPM

0

Oil Flow (GPM)

0

Oil Temp (°C)

86

Pump VFD (%)

0

Baffle (%)

0

Interlock Released

Power (kW)

0

Brake Engaged

IDLE MODE

HYDRO ENERGY

Status

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PROCESS CONFIGURATION & CONTROL

ALARM VALUES

Low Oil Flow SP / Delay	+0	5
High Oil Flow SP / Delay	+200	5
High Oil Temp SP / Delay	+999	5
Over Current SP / Delay	+999	5
Rotor Overspeed SP / Delay	+999	5
Brake Failure Delay	10	

HOA CONTROLS

Oil Pump VFD	OFF	LOC	REM
Baffle	OFF	LOC	REM
Alarm Horn	OFF	LOC	REM
Rotor Brake	OFF	LOC	REM
System Interlock	OFF	LOC	REM
Oil Pump VFD (Manual SP)	0		
Baffle (Manual SP)	0		
EMERG STOP			
EMERG RESET			

PROCESS VALUES

Warmup Oil Temp SP / Delay	+300	5
Stabilize Power SP / Delay	+300	5
Cooldown Oil Temp SP / Delay	+80	5
Pump VFD SP Warm / Cool	+60	40

HYDRO ENERGY

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ALARM MANAGEMENT

Date	Time	Alarm text

BRAKE

LOW FLOW

HIGH FLOW

HIGH TEMP

ROTOR

OVER CURR

EMERG

ALARM RESET

HYDRO ENERGY

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WARMUP MODE

HOURLMETER

Reset

+0+0+0+0

DaysHoursMinutesSeconds

HYDRO ENERGY

StatusOverviewControlAlarms

PROCESS OVERVIEW

Rotor RPM61

Oil Flow (GPM)0

Oil Temp (°C)144

Pump VFD (%)0

Baffle (%)0

Interlock Released

Power (kW)172

Brake Released

WARMUP MODE

HYDRO ENERGY

StatusOverviewControlAlarms

PROCESS CONFIGURATION & CONTROL

ALARM VALUES

Low Oil Flow SP / Delay	+0	5
High Oil Flow SP / Delay	+200	5
High Oil Temp SP / Delay	+999	5
Over Current SP / Delay	+999	5
Rotor Overspeed SP / Delay	+999	5
Brake Failure Delay	10	

HOA CONTROLS

Oil Pump VFD	OFF	LOC	REM
Baffle	OFF	LOC	REM
Alarm Horn	OFF	LOC	REM
Rotor Brake	OFF	LOC	REM
System Interlock	OFF	LOC	REM
Oil Pump VFD (Manual SP)	0		
Baffle (Manual SP)	0		

PROCESS VALUES

Warmup Oil Temp SP / Delay	+200	5
Stabilize Power SP / Delay	+270	5
Cooldown Oil Temp SP / Delay	+80	5
Pump VFD SP Warm / Cool	+0	40

EMERG STOP

EMERG RESET

HYDRO ENERGY

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ALARM MANAGEMENT

Date	Time	Alarm text

BRAKE

LOW FLOW

HIGH FLOW

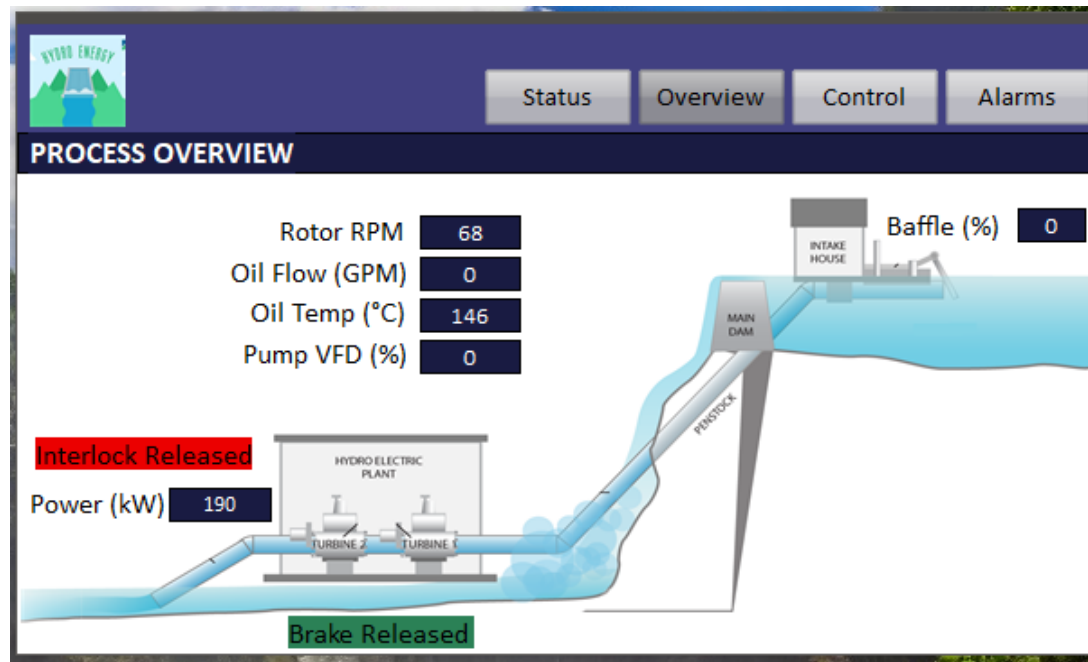
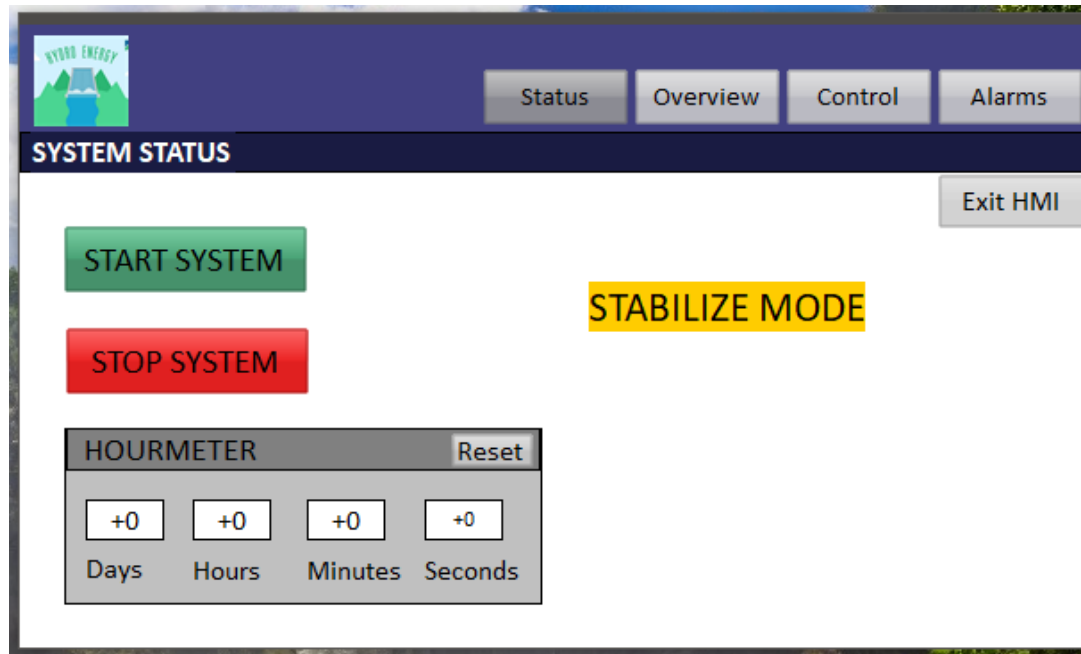
HIGH TEMP

ROTOR

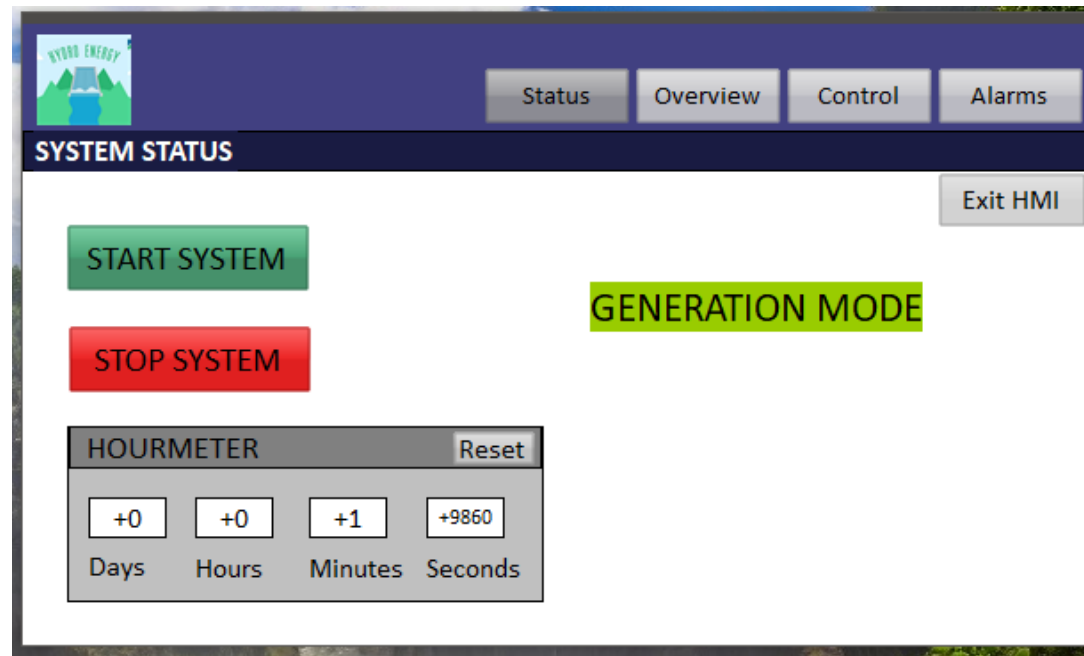
OVER CURR

EMERG

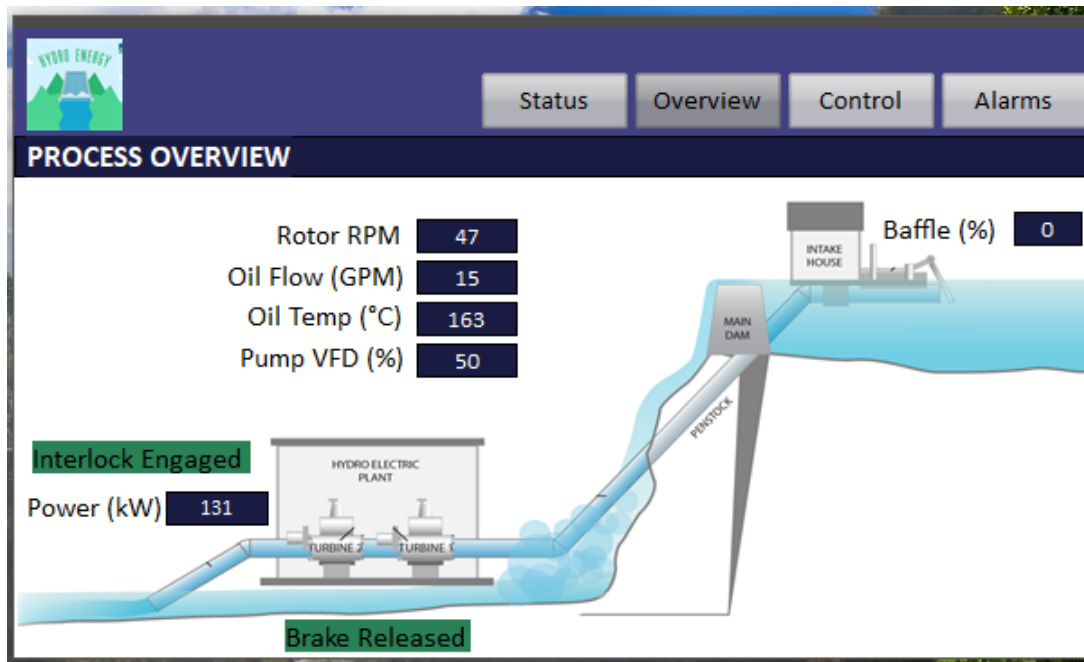
ALARM RESET

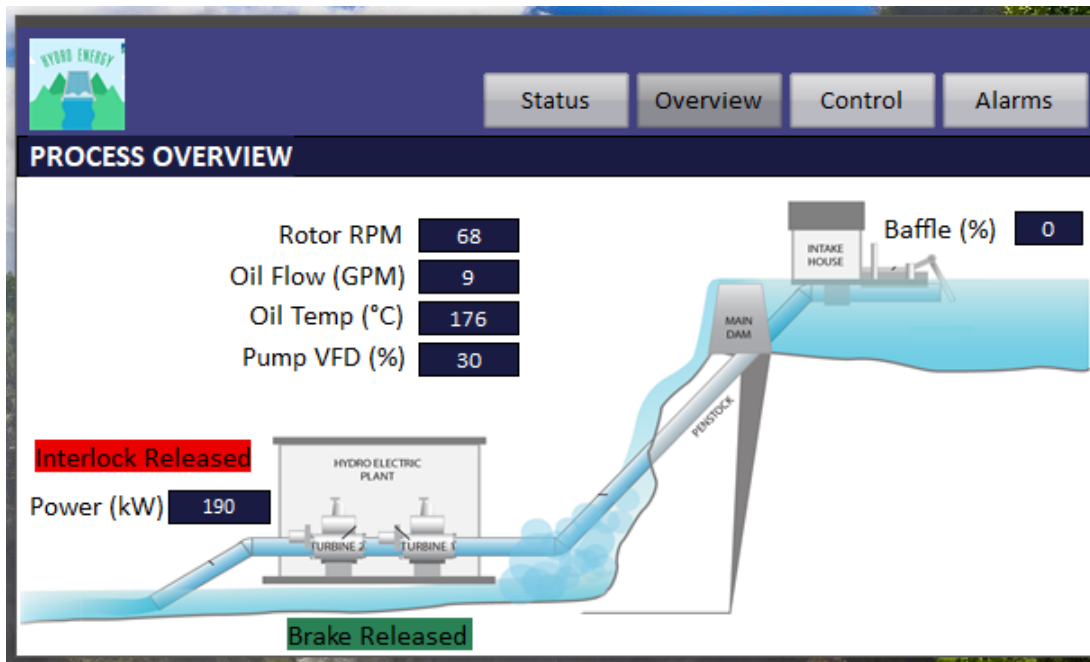
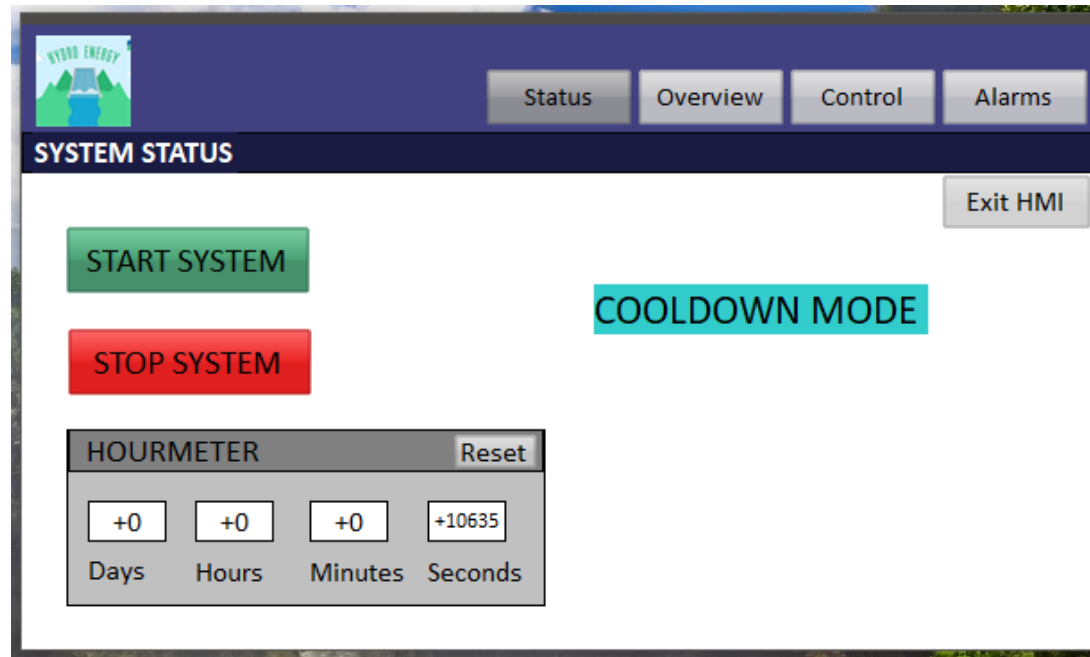


Hourmeter starts

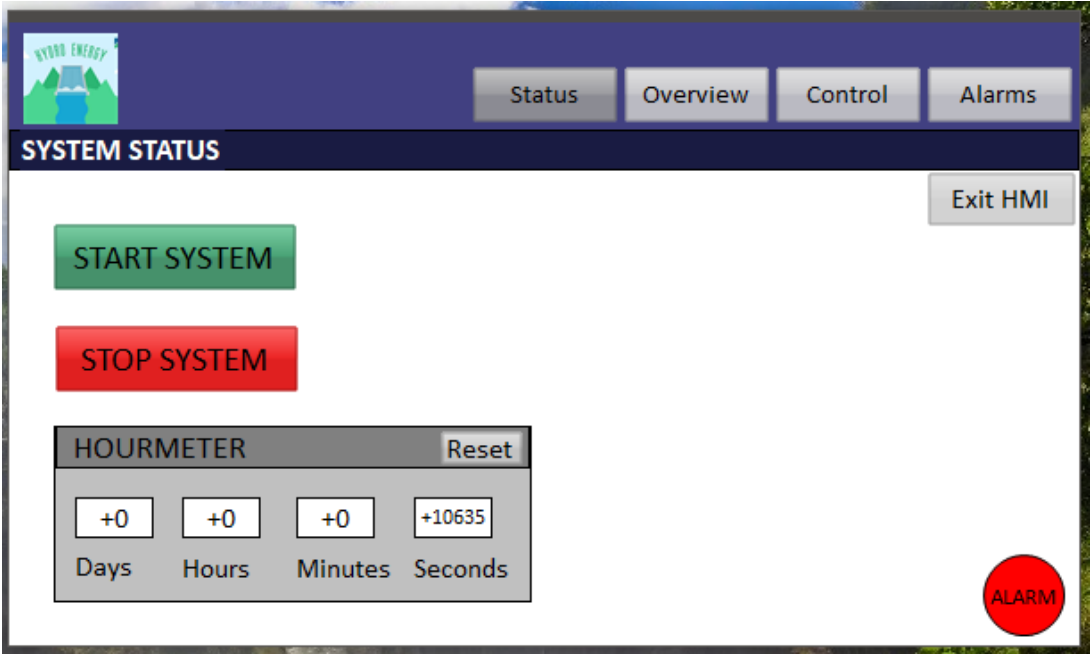


Power station
interlock is set



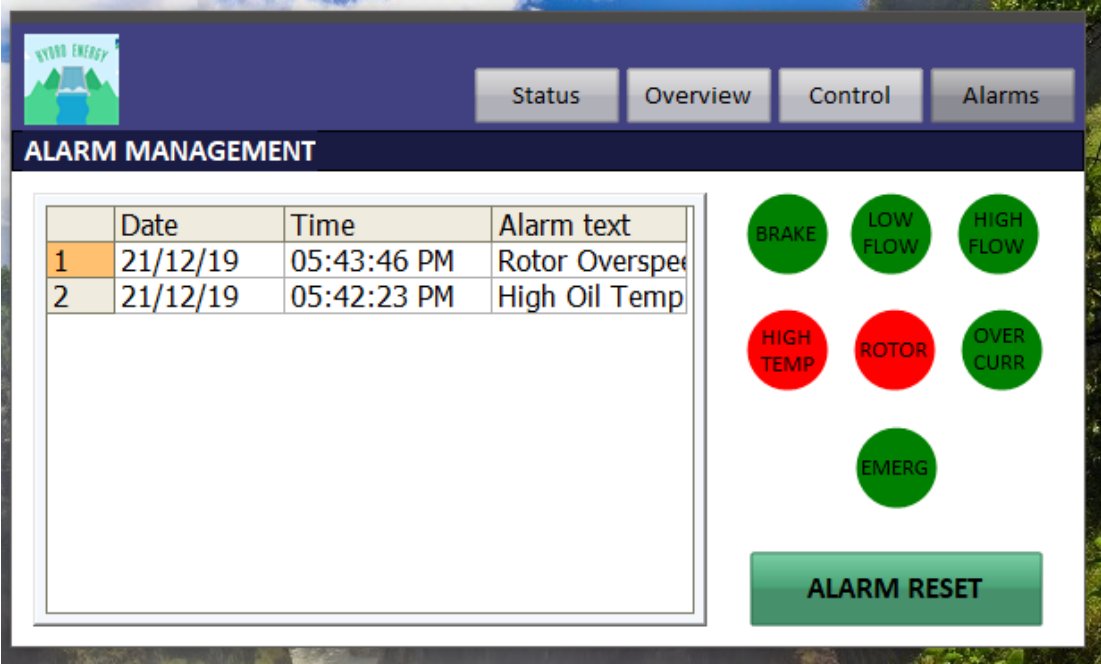


HMI display
when alarm horn
is energized




Alarm indicator

Alarm overview



Alarm bits
flash red



Status
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PROCESS CONFIGURATION & CONTROL

ALARM VALUES

Low Oil Flow SP / Delay	+0	5
High Oil Flow SP / Delay	+200	5
High Oil Temp SP / Delay	+999	5
Over Current SP / Delay	+999	5
Rotor Overspeed SP / Delay	+999	5
Brake Failure Delay	10	


PROCESS VALUES

Warmup Oil Temp SP / Delay	+300	5
Stabilize Current SP / Delay	+300	5
Cooldown Oil Temp SP / Delay	+80	5
Pump VFD SP Warm / Cool	+60	40

HOA CONTROLS

Oil Pump VFD	OFF	LOC	REM
Baffle	OFF	LOC	REM
Alarm Horn	OFF	LOC	REM
Rotor Brake	OFF	LOC	REM
System Interlock	OFF	LOC	REM
Oil Pump VFD (Manual SP)	0		
Baffle (Manual SP)	0		
EMERG STOP			
EMERG RESET			

When all devices are in OFF mode (orange)



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PROCESS CONFIGURATION & CONTROL

ALARM VALUES

Low Oil Flow SP / Delay	+0	5
High Oil Flow SP / Delay	+200	5
High Oil Temp SP / Delay	+999	5
Over Current SP / Delay	+999	5
Rotor Overspeed SP / Delay	+999	5
Brake Failure Delay	10	

PROCESS VALUES

Warmup Oil Temp SP / Delay	+100	5
Stabilize Power SP / Delay	+200	5
Cooldown Oil Temp SP / Delay	+80	5
Pump VFD SP Warm / Cool	+0	60

HOA CONTROLS

Oil Pump VFD	OFF	LOC	REM
Baffle	OFF	LOC	REM
Alarm Horn	OFF	LOC	REM
Rotor Brake	OFF	LOC	REM
System Interlock	OFF	LOC	REM
Oil Pump VFD (Manual SP)	60		
Baffle (Manual SP)	25		
EMERG STOP			
EMERG RESET			

Setpoints can be entered manually when in HAND or LOCAL mode (yellow)