



Continuous Measurement of gases for  
 Effective Geothermal Reservoir  
 management in

Leyte Mahanadong Geothermal Field,  
 Philippines

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 GEOTHERMAL DIVISION



A MEDAS has been installed in four production wells in the Mahanagdong production sector of the Leyte Geothermal Production Field located in the island of Leyte, central Philippines. This field is chosen because: 1) it is the largest geothermal field in the Philippines with five separate power plants with total installed capacity of about 700 MW, and 2) the area is bisected by the Philippine Fault, a major left-lateral transcurrent fault similar to the San Andreas fault.

The System is installed in the „Greater Tongonan Geothermal field “ in Leyte on the MG5 pad with the bore holes

MG 18 D ( high gas)

MG19D ( Calcit in flow )

MG 23D ( cold water in flow)

MG32D ( high gas )

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( CAN 14 )

( CAN 12 )

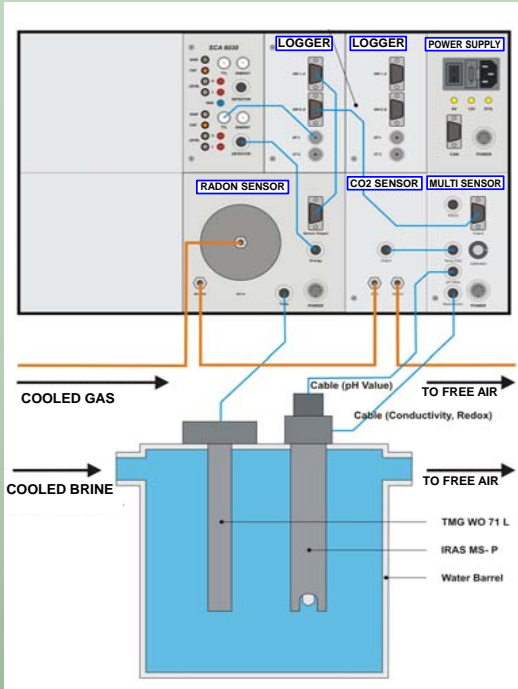
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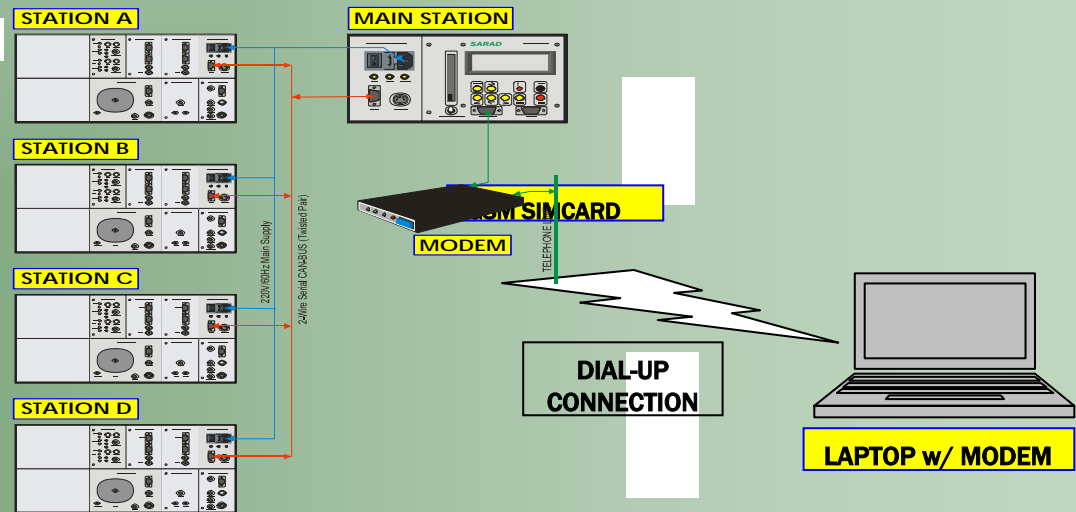
ENVIRONMENTAL INSTRUMENTS

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Parameters monitored in each substation.

	PARAMETERS
<b>GAS Stream</b>	Radon CO <sub>2</sub> Gas Flow Gas Temperature Gas Relative Humidity
<b>WATER Stream</b>	pH Chloride Redox Potential Conductivity Water Temperature



Schematics of remote data acquisition for the MEDAS

# Redoxpotential in Borehole MG18D



### Redox potential in MG 23 cold water in flow

