

## **Next Generation Noble Gas System for the IMS Network**

40 out of the 80 radionuclide stations of the International Monitoring System of the CTBTO will be equipped with Noble Gas detection systems. Today 31 of these stations are already installed and 25 certified. Noble Gas detection system technology for the CTBT verification founded its basis with the International Noble Gas Experiment (INGE) more than 15 years ago with the contribution in technology advancement from 4 member states. In continued cooperation with member states and the noble gas system vendors, the IMS Division continues engineering and development efforts on next generation noble gas systems. This paper describes various R&D projects which aim to increase data availability and quality and sustainability of current systems, and further improve performance and modularity of the IMS noble gas network.

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