

SGS weather

Company Profile : Human civilization has evolved due to basic instinct of survival. Human needs have led the formation of social structure for harmonious mutual Coexistence. Natural habitat provided pathways for evolution and dependence on nature really decided the social and economic fabrics of societies up to end of the nineteenth century. Harmony with nature was the key guiding principle. The twentieth century brought the Industrial revolution with the Internet need to provide comfortable life style and plenty of consumables able to meet the new requirements and demands. The unplanned exploitation of natural resources resulted in widening the gap between humans and the nature. Never ending various cycle of changing the life style, growth of demands triggered the evolution of new technological revolution, Industrial growth and high requirement of energy per capital further distanced the humans from nature. The excessive pressure on limited natural resources forced the nature to establish new equilibrium and through challenge to humans to adjust to new conditions like polluted air, shift in weather patterns, green - house warming making the future of civilization



uncertain, Today, all of us are facing the biggest question that this synthetic growth and fast growth in energy demands exerting extreme pressure and constraints on vital resource of Air, Water and Biomass are sustainable or not, if not, how we can regulate like never-ending solar energy to energy demand for optimized growth pattern and enable nature to establish favorable state of equilibrium to achieve sustainable and stable growth of economies.



Establishing harmony with nature holds the key for mutual coexistence and sustainable growth of economy. Having recognized the role of weather, climate and environment as the core sector which bridge the gap between the mankind

and the nature in all sectors of human activity, SGS Weather and Environmental Systems has decided to concentrate and play active role as facilitator and technology provider in these core areas.

Services :



- Agro Meteorological Systems :

Meteorological condition Play a deciding roll in Agriculture and Horticulture yields. Through Meteorological measurements and product applications, the optimum use of resource such as irrigation and usage of fertilizer can be planned improving the profitability.



- Aviation Systems :

Meteorological measurement at Airport are crucial for safe landing and take-off of aircrafts. Precise measurement of Pressure, Temperature, Humidity, Precipitation wind speed and Direction are basic requirements.



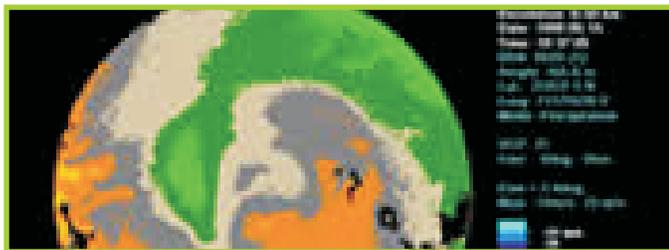
- Meteorology Communication :

Quick dissemination of data is essential component of meteorology data and products metrology community was always first to use any emerging communication technology.



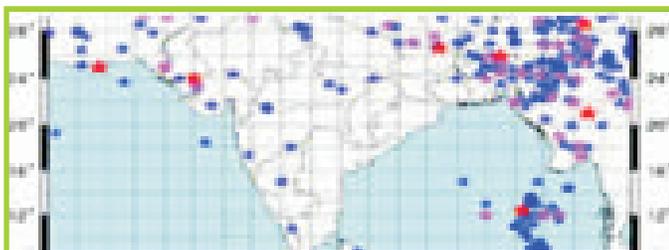
- Satellite Communication Systems :

SGS provides complete Seismological & Meteorological data networking solution using V-Sat communication terminal. SGS has technology partnership with leading V-sat provider and offers integrated solutions, Radar Networking Solution, Seismological Network Solutions Satellite and Radar Data mosaicing are some important systems.



- Meteorological Radars :

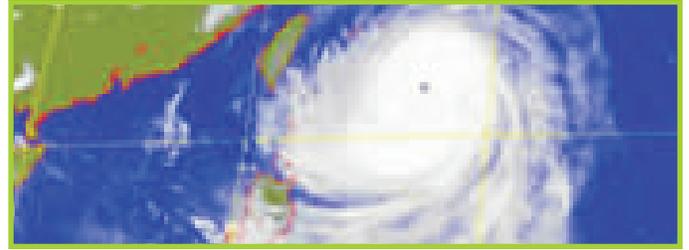
SGS provides X, C and S-Band Doppler Weather Radar for Server Storm warning, Aviation, Hydrology Flash flood warning and Land slide warning and application Latest state of Art radars are provided by our technology partner. Computer based switching systems are widely used for sharing and transfer of metrology to user all over this world.



- Seismology :

Earthquake is the act of nature which can not be predicted with the present state of scientific knowledge. Severity associated with unpridicability inflict lot of damage to life and property every year across the world. More than 50% of area of Indian subcontinent is prone to earthquake risk.

Continuous monitoring of occurrence of earthquake has great value for activating the rescue and relief operations.



- Remote Sensing :

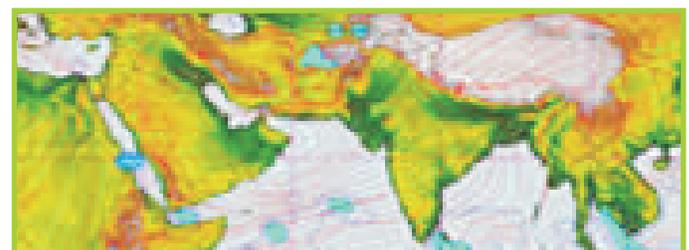
Remote sensing technology tools find wide application in collecting atmosphere parameters. Many of these technologies are widely used for operational work.

SGS offers wide range remote sensing technology and system for both operational and research applications



- Lightning Detection :

Measurement of Atmospheric light discharge is a potent method for detection and location of sever thunder storms. SGS provides full solution of Lightning network for accurate and near real time observation and location of lightning discharges.



- Boundary Layer Measurements :

SGS offers complete solution for boundary layer measurements for research and wind potential survey application. Instrumented towers with data logging and communication are available. The measurements are also supported with Remote Sensing Systems.