

EMRP Call 2010

Call Scope - TP Environment

The overall strategic aim of the **Targeted Programme (TP) “Environment”** is to improve the quality of data for policy making and regulation, underpin other environmental research initiatives through collaborative metrological research and development, and stimulate technological innovation.

The call can be divided in geographically *localised* environmental challenges such as related to:

- pollution of water, air and soil;
- waste management (including radioactive waste);
- radiation measurement and protection (including electromagnetic and ionising radiation, and acoustic noise).

and *global* metrological challenges for climate control such as related to:

- atmospheric parameters including constituents, contaminations and transport properties;
- emission control including measurement of gases with effect on the climate and related to EU emission trading schemes; CO₂ sequestration;
- oceanic parameters including pH, temperature, density and flow profiles;
- remote sensing;
- on-line sensors and environment monitoring.

EURAMET wishes to focus on the most pressing challenges whilst exploiting the unique capabilities of the NMIs and DIs. Metrology underpinning climate control and pollution of water, air and soil has been identified as top priority. Further specification of the strategic focus will be based on the PRTs received and the documentation of metrology needs given therein.

EURAMET furthermore aims at long-term impact and sustainability and thus welcomes proposals suitable to contribute to a European NMI/DI network of measurement infrastructure closely linked with international structures.

The TP “Environment” shall enable collaborative research for large and transnational monitoring systems for climate-relevant and other environmental parameters, such as for traceability of satellite-based measurements and ground-based monitoring networks. The programme partially complements the projects within TP Energy (Call 2009)¹, which aim at metrological contributions to *reduce* the emission of greenhouse gases such as CO₂ and methane, by contributions to *measure* and *control* emissions.

The Call addresses especially large-scale approaches which are beyond the capabilities of single NMIs and DIs. Proposers may consider the opportunities for long-term approaches which may be supported by another TP Environment Call planned for 2013.

This Call for Potential Research Topics refers to the 2008 edition of the European Metrology Research Programme – the “EMRP Outline 2008” (cp. Section I.1.1 and II.5 Grand Challenges – Environment).

¹ [http://www.euramet.org/index.php?id=latestnews&tx_ttnews\[tt_news\]=145&tx_ttnews\[backPid\]=31&cHash=08902fb7f11](http://www.euramet.org/index.php?id=latestnews&tx_ttnews[tt_news]=145&tx_ttnews[backPid]=31&cHash=08902fb7f11)