



World Federation of Engineering Organizations Fédération Mondiale des Organisations d'Ingénieurs

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Now that the world has negotiated the Paris agreement to mitigate GHGs and pursue adaptation to the changing climate, the focus must now turn towards implementation to turn the words into action. The world's engineers are a human resource that must be tapped to contribute to this implementation. All countries use engineers to deliver services that provide the quality of life that society enjoys, in particular, potable water, sanitation, shelter, buildings, roads, bridges, power, energy and other types of infrastructure. There are opportunities to achieve GHG reduction as well as improving the climate resilience of this infrastructure through design, construction and operation all of which require the expertise and experience of engineers. Engineers are problem-solvers and seek to develop feasible solutions that are cost-effective and sustainable.

For example, engineers have been involved for over 10 years in the evaluation of the climate risk and vulnerability of civil infrastructure and buildings. This assessment has been standardized into a procedure known as the PIEVC Protocol, which has been used in over 40 projects in Canada and two internationally. The assessments inform decisions on how to adapt the infrastructure to improve its climate resilience over its life cycle where the climate in which it operates is changing significantly. This allows engineers, planners and managers to build and operate infrastructure to meet the needs of the population. www.pievc.ca

Engineers serve the public interest and offer objective, unbiased review and advice. Having their expertise to evaluate the technical feasibility and economic viability of proposals to reduce GHGs and to adapt to climate change impacts should be pursued. Engineers input and action is required to implement solutions at country and local levels.

The international organization known as the World Federation of Engineering Organizations consist of members of national engineering organizations from over 90 developing and developed countries representing more than 20 million engineers. The WFEO offers to facilitate contact and engagement with these organizations to identify subject matter experts that will contribute their time and expertise as members of the engineering profession. The expertise of the world's engineers is needed to help successfully implement the Paris agreement. We encourage all countries to engage their engineers in this effort. The WFEO is prepared to assist in this effort.