



# Changing the game

*Research into new emissions-reducing technologies could transform our energy future.*

Supplying energy to meet the needs of growing economies while reducing greenhouse gas emissions is a global challenge we all face.

By 2030, experts predict that the world will require about 60 percent more energy than in 2000, with economic growth in developing countries accounting for most of this increase. As a result, greenhouse gas emissions are predicted to rise too. To meet this challenge we need practical answers.

One such answer is greater energy efficiency, and it can have a significant impact. By more effectively using fossil fuels, we can reduce the growth in emissions. A good way to promote energy efficiency internationally is to facilitate and accelerate the transfer of efficient technologies from the industrialised to the developing world.

However, managing climate risks on a global scale over the long term while sustaining economic growth worldwide is likely to require more options: effective new "game-changing" energy technologies that can be applied broadly, in developed and developing countries alike.

Conducting research into such breakthrough technologies is the mission of the Global Climate and

Energy Project (GCEP) based at Stanford University in California. GCEP is the world's largest private research initiative of its kind. It brings together some of the world's best scientific and engineering minds, connecting research centres and funding programmes in the United States, Europe, Australia and Asia.

In its fourth year, GCEP already has more than 30 breakthrough programmes underway: in biomass energy, hydrogen, solar energy, fuel cells, advanced combustion, carbon capture and storage, and advanced materials. In Europe, GCEP funds research at Delft University of Technology and Energy Research Centre, both in the Netherlands, and at the Swiss Federal Institute.

Jane Stanford, co-founder of Stanford University, once said that we should "not be afraid to outgrow old thoughts and ways, and dare to think on new lines". In seeking game-changing, emissions-reducing energy technologies, GCEP is meeting her challenge and that of a rapidly developing world.

With support from General Electric, Schlumberger and Toyota, ExxonMobil is proud to be lead developer and sponsor of GCEP.



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