



New UQ research sheds light on coal seam gas versus renewable energy

26 June 2013

A shift from coal-fired to gas-fired power generation will not significantly lower carbon dioxide emissions, new research by the Global Change Institute at The University of Queensland has found.

Energy economics researcher Professor John Foster said the modelling indicated that a transition to gas-fired generation reduced emissions only marginally, and that wholesale prices would be higher than with a renewable energy option.

"The findings contradict a widely-held view that renewable energy is too expensive compared to fossil fuels, and too unreliable to be a major component of Australia's future energy generation by 2035," he said.

"There is no justification for the claim that a high proportion of energy sourced from renewables will drive up wholesale costs, in comparison to a power system heavily dependent on coal seam gas," Professor Foster said.

This finding comes as the Australian government deepens its commitment to developing coal seam gas resources in order to supply lucrative export markets and transition domestic power generation.

Professor Foster said a shift away from coal to lower-emissions gas was required in order to create greater resilience in Australia's power market, but he warned that coal seam gas was not a silver bullet.

"A mix of large-scale renewable energy generation, including solar and wind, together with consumer action to use power more efficiently, will deliver the most resilient Australian power market by 2035," he said.

"While our findings might indicate that pursuing a gas-centric scenario will lead to increased prices and reduced carbon emissions, they may not be sufficient to change the dominant industry view which is intent on replacing coal with gas," Professor Foster said.

The UQ researchers used a commercially-available modelling package, PLEXOS, to model what a transition to gas-fired generation would deliver and compared that to a transition to power from renewable technologies such as solar and wind.

Go [here](#) for a copy of the working paper.

Media contacts: Director of the UQ Energy Economics and Management Group Professor John Foster, 0418 119 320; Global Change Institute Communications Officer Kate Hannah, 0425 752 904, k.hannah@uq.edu.au.

The Global Change Institute at The University of Queensland, Australia, is an independent source of game-changing research, ideas and advice for addressing the challenges of global change. The Global Institute advances discovery, creates solutions and advocates responses that meet the challenges presented by climate change, technological innovation and population change.

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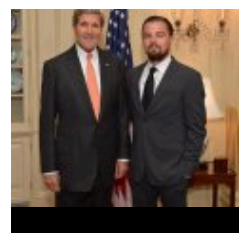
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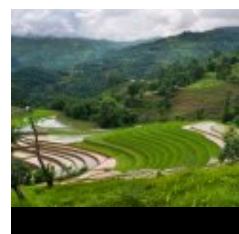


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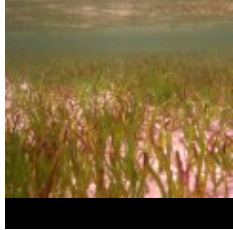
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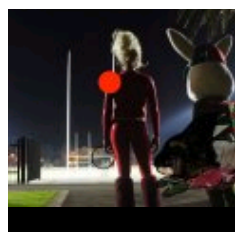
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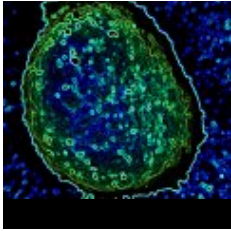
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