

The Global Energy Association for the development of international research and projects in the field of energy.

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## **Deep decarbonisation: New strategies for net zero carbon emissions**

*Achievement of net zero carbon emissions by 2050 is an ambitious goal set by the world community to counter the worsening climate crisis. However, many countries fear the risk of economic losses due to a decrease in the carbon intensity of GDP. How can comprehensive decarbonisation of energy systems be achieved without compromising economic growth? What are the strategies for deep decarbonisation? Moreover, can these examples be scaled? Rodney Allam, the 2012 Global Energy Prize laureate, member of the Global Energy Prize International Award Committee, along with other high-level experts will answer these and a number of other questions at the session “Deep decarbonisation: New strategies for net zero carbon emissions”, which will be held on September 9 within the World Energy Congress (Abu Dhabi, the UAE).*

Reducing the industrial use of traditional energy sources is becoming the essence of the energy policy of leading countries, a global trend in the development of a green economy. On the road to a carbon-free future, many experts are betting on the increased use of renewable energy. According to forecasts, by 2050 at least half (possibly up to 70%) of the world's electricity will be generated through solar and wind energy. A number of experts also note the trend towards increasing the energy efficiency of traditional systems and the need to develop carbon capture and recovery technologies. According to Rodney Allam, a new life can be given to traditional hydrocarbon-powered power plants, making them environmentally friendly. This is possible thanks to the technology he developed - the “Allam cycle”. The principle of operation of this cycle is as follows: natural gas is burned in a combustion chamber with pure oxygen at high pressure, and the resulting CO<sub>2</sub> reaction then passes through a closed loop through a special turbine and returns back to the process. The system has a high carbon capture rate of almost 100%. Its additional advantage is the low cost of electricity production, comparable to the cost of electricity generation by other modern gas turbines: about 6 cents per kilowatt hour.

Join the discussion with Rodney Allam, the 2012 Global Energy Prize laureate, member of the Global Energy Prize International Award Committee, on Monday 9th September at the parallel session from 16:00 – 17:45.

Note that the participation of Rodney Allam is taking place within the official program of the Global Energy Association on development of international research and projects in the field of energy at the 24th World Energy Congress. In addition to the presentation of the Global Energy Association’s experts in the business program, the Association organizes its own session “Mission possible: the

Global Energy Prize as a driver for sustainable energy for all”, as well as presents a bright and dynamic stand.

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**About the Global Energy Association**

[The Global Energy Association](#) develops international research and projects in the field of energy. The Association operates with the support of the leading Russian energy companies PJSC “GAZPROM”, “FGC UES”, PJSC, PJSC “Surgutneftegas”. The Association manages the Global Energy Prize, organizes the eponymous summit, and implements the Global Energy Youth Program.

The Global Energy Prize is an international award for outstanding scientific research and technological development in energy. Since 2003, the Global Energy Prize has been awarded to 39 Laureates from 13 countries: Australia, Austria, Canada, Denmark, France, Iceland, Japan, Russia, Sweden, Switzerland, Ukraine, the UK and the USA. According to [IREG Observatory on Academic Ranking and Excellence](#), the Global Energy Prize is one of TOP-99 international academic awards with the highest prestige and significance. In the prestige rating of [the International Congress of Distinguished Awards \(ICDA\)](#) the Global Energy Prize is in the category of “Mega Prizes” for its laudable goals, exemplary practices and the overall prize fund.

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