



Prof. Ibrahim Dincer

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Keynote Presentation Title

**“Why Integrated Energy Systems for
Multigeneration?”**

 **14 March 2022**

 **17:00 - 17:45**
(GMT+3)

Abstract

Energy industry has been very conservative and acting slowly in making the transition from a single generation to cogeneration and more recently to trigeneration while various sectors and services have experienced integration for multiple things and displayed multifunctionality. It is now really the time for energy industry to change such a traditional approach to an innovative mode where the subsystems are integrated for multigeneration of all useful commodities needed for the targeted sector or plant or application. This way the systems will be more efficient, more cost effective, more environmentally benign and hence more sustainable. In this presentation, the focus will be placed on introducing numerous concepts, dimensions of innovation and sustainable development, exergy tools on how to design, analyze, assess and improve the energy systems, and discuss the technical and operational details on how to design integrated energy systems for multigeneration and how to evaluate their performances. Furthermore, there will be numerous case studies presented from various sectors where some unique integrated energy systems are introduced for a common goal to primarily couple renewable energy sources with hydrogen energy options.



KEYNOTE SPEAKERS

Prof. Ibrahim Dincer

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Biography

Prof. Ibrahim Dincer is recognized for his pioneering works in the area of sustainable energy technologies and has authored/co-authored numerous books and book chapters, and many refereed journal and conference papers. He has chaired many national and international conferences, symposia, workshops and technical meetings. He has delivered many keynote and invited lectures. He is an active member of various international scientific organizations and societies, and serves as editor-in-chief, associate editor, regional editor, and editorial board member on various prestigious international journals. He is a recipient of several research, teaching and service awards, including the Premier's research excellence award in Ontario, Canada. During the past seven years he has been recognized by Thomson Reuters as one of the Most Influential Scientific Minds in Engineering and one of the Most Highly Cited Researchers.

