



ACCELERATING ENERGY TRANSITION

INDUSTRY TRACK: APRIL EDITION

INCLUSIVE INFRASTRUCTURE DEVELOPMENT FOR DRIVING LOW- CARBON INDUSTRIALISATION

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Tareq Emtairah

United Nations Industrial Development Organization

Mr. Emtairah's work experience spans over 22 years in developed and emerging economies with a progressive focus on sustainable industrial transformation, energy transition, policy advocacy, applied research and capacity development. Before joining UNIDO, he worked as a senior research fellow at the International Institute for Industrial Environmental Economics (IIIEE) at Lund University, Sweden where he worked with research and analysis on the transition to low carbon economies with a focus on cleaner technologies and cities. From June 2012 to 11 June 2015, he served as the executive director of the Regional Center for Renewable Energy and Energy Efficiency (RCREEE), an inter-governmental technical cooperation center based in Cairo, where he drove for the conceptualization, development and implementation of the programmatic areas of the Center for advancing policies and strategies for sustainable energy in the MENA region. Mr. Tareq Emtairah is a graduate of Lund University-Sweden, where he received a PhD in Industrial Environmental Economics (2009), and Rutgers University-USA, where he received his BS in Materials Engineering (1990).



Sarbinder Singh,
P4G

Sarbinder Singh is the Director of Investments at P4G. He is an experienced professional with expertise in managing investments, innovation and had managed a portfolio of over \$1 billion equity investment in hydroelectric, solar and natural gas based combined cycle generating stations. He has delivered many innovative business and financial solutions in energy and utility business involving regulated and contracted assets. His expertise includes managing innovation at development and growth stages, designing and operationalizing commercial structures, investment valuations, equity investments, project financing and venture governance. He was instrumental in setting a seed equity fund for investment in small and medium sized hydro projects in Nepal and had co-developed one startup business. He has worked with leading organizations in India, the United States and Canada.



Mark Draeck,
United Nations Industrial Development Organization

Mark Draeck joined UNIDO HQ in Vienna, Austria in 2010 as an Industrial Development Officer in the Energy Systems and Infrastructure Division, and has been managing a portfolio of over 40 MUS\$ of technical cooperation projects in Africa, Asia, MENA and Eastern Europe. The focus of these projects is on the intersection of SDG9 (Industry, Innovation and Infrastructure), SDG11 (Sustainable Cities and Communities) and SDG13 (Climate Action), driving innovative climate-smart solutions to address urban-industrial development challenges, especially related to energy and climate. Current countries of operation include Albania, Cape Verde, Egypt, Iran, Jordan, Palestine, Senegal, Turkey, and Tunisia. Mark holds a Master in Science from the University of Leuven, Belgium, a degree in Environmental Management from the University of Ghent, and an MBA certificate from Frankfurt School of Finance and Management. Mark has over 20 years of experience in the field of renewable energy, energy efficiency and energy technology innovation. Before joining UNIDO, Mark worked as an Energy Policy Advisor for the Flemish Government in Brussels, Belgium, and as a Carbon Group Manager in the consulting sector in London, UK.



Sashay Ramdharee,
National Cleaner Production Centre of South Africa

Sashay Ramdharee is a National Lead Industrial Energy Efficiency Project Manager and manages the delivery of the NCCPC-SA's service offerings in the GEF SA IEE Project. He is a passionate, versatile and confident project manager with 12+ years' experience in driving projects and leading cross-functional teams to consistently meet key program deliverables. Managed the implementation of projects at 50+ large multinational industries which have saved companies approx. R1billion in avoided resource and energy costs, which were measured and verified according to ISO50001 Energy Management Standards. Proven track record of increasing productivity, quality and customer satisfaction. Results driven leader who has successfully managed and motivated project teams from scoping to implementation and support in fast paced, time and cost sensitive environments. Has a wealth of technical energy consulting experience in energy system optimization, energy efficiency and renewable energy projects. An accomplished energy conferences speaker and author. Sashay holds a Master's degree in Chemical Engineering and a Bachelor's degree for which he graduated Cum Laude. He is a Certified Energy Manager (CEM) with The Association of Energy Engineers (AEE). He completed a Project Management Professional qualification with the Project Management Institute of America (PMP) and is registered with the Engineering Council of South Africa (ECSA). Sashay is a prominent member of a number of associations which include South African National Energy Association (SANEA), Project Management Institute of America (PMP), Engineering Council of South Africa (ECSA), World Energy Council member (WEC), The Association of Energy Engineers (AEE) and the South African Energy Efficiency Confederation (SAEEEC). Sashay serves as an active member on the SABS/TC 301 energy management and energy savings committee, responsible for standards development. He is a UNIDO Certified Expert in Energy Management Systems Implementation and a NCCPC Certified Expert in Resource Efficient and Cleaner Production.



Daniele Gamba,
Trans Austria Gasleitung GmbH

Daniele Gamba, M.Sc. in Electrical Engineering, is a Senior Executive with more than 20 years' experience in gas industry. Since September 2018, he leads as Managing Director Trans Austria Gasleitung GmbH, the main Austrian Gas Transmission Operator consisting in 1,100 Km high diameter pipelines and 5 Compressor Stations with a total power installed of 450 MW and transporting yearly approx. 30 Bcm of natural gas from Austrian/Slovakian border to domestic market and to Austrian/Italian border. Before joining TAG, since 1999, he held several leading positions in Snam, the main Italian Gas Infrastructure Operator, in different areas of responsibilities, amongst others Supply Chain Senior Vice President (2017/2018), Development, Commercial & Regulatory Affairs Senior Vice President (2013/2017) and Operation & Maintenance Senior Vice President (2012/2013). In the period 2013-2017, he served, appointed by the Italian Ministry of the Economic Development, also as Member of the Committee for Natural Gas System Emergency and Monitoring. Between 2010 and 2013 he was Member of the Supervisory Board of Comitato Italiano Gas (CIG), the National Standardization Body for the gas sector.



Etienne Kechichian,
World Bank

Etienne Kechichian is a senior private sector specialist at the World Bank Group. Since 2013 he has led work related to Green Competitiveness, which looks to promote private sector growth through policy advice and financing measures for industries, industrial parks and circular economies in developing countries. He is currently expanding the World Bank's knowledge capacity on circular economy and leading work on the link between climate resilience of industries and competitiveness. He manages a portfolio of over 20 projects on lending and technical assistance in countries including Bangladesh, Turkey, Vietnam, Mauritania, Pakistan, Egypt, China, Cote d'Ivoire, Ethiopia, El Salvador, Guatemala, Honduras, and Haiti. Etienne's notable publications include A Greener Path to Competitiveness (2016), An International Framework for Eco-Industrial Parks (2018, 2021), Resilient Industries (2021), Circular Economy in Industrial Parks (2021) and Circular Economy in Private Sector Development (2021 upcoming). Prior to this work, Etienne worked globally on special economic zones projects. These projects helped improve the legal and regulatory framework governing SEZs in order to generate private sector investments into their development, management, and promotion.



Nico Tyabji,
SunFunder

Nico is responsible for partnerships at SunFunder, a specialist investor that has closed over \$140 million for distributed solar, predominantly in sub-Saharan Africa. A native Londoner, prior to SunFunder he covered the clean energy transition at Bloomberg New Energy Finance, and initiated BNEF's work on off-grid solar and energy access. Nico has a Masters degree in International Affairs from Columbia University's School of International and Public Affairs in New York, and a Bachelor's degree in International Development and Philosophy from the University of Leeds.



Rana Adib,
REN21

Rana Adib is the Executive Secretary of REN21, the Renewable Energy Policy Network for the 21st Century. REN21 is a global public-private multi-stakeholder network on renewable energy headquartered at the United Nations Environment Programme in Paris/France. Previously, Rana was REN21's Research Coordinator developing the international expert community and leading the REN21 Renewables Global Status Report series to become an international reference. Prior to REN21 Rana worked in private industry and applied research in the areas of renewable energy, energy access, and waste management. She was also responsible for coordinating the biogas-to-energy research programme of Veolia Environment. Rana holds a Master Degree in industrial engineering from the University of Wedel in Germany. She has over 20 years' experience in the energy sector.



Benjamin Hickman,
United Nations Environment Program

Benjamin is regional advisor for Asia and Europe at the UNEP-led District Energy in Cities Initiative and is directly advising cities and government on best practice technology, policy and business models to scale-up district energy. Benjamin is also supporting coordination of the Integrated Urban Systems Partnership in UNEP which is focused on integrated urban energy systems. He also is supporting UNEP's work on cold chain and urban cooling in India as part of the Cool Coalition. Benjamin joined UNEP in 2014 from a background in renewable energy policy, financing and market modelling. Benjamin has a degree in Physics from the University of Oxford and an MSc in Environmental Technology and Energy Policy from Imperial College London.



Bethany Speer,
National Renewable Energy Lab

Bethany Speer is a Senior Researcher at the U.S. Department of Energy's National Renewable Energy Lab, where she manages international projects with a focus on efforts related to clean energy finance, investment and public-private partnerships. Since 2016, she has served as a co-lead of the Clean Energy Investment Accelerator (CEIA), a global program co-implemented with Allotrope Partners and the World Resources Institute to address barriers to clean energy investments in the commercial and industrial sectors in emerging economies. Bethany has a Certificate from the Yale Center for Business and the Environment for Deploying and Financing Clean Energy and a Masters in Global Investment, Finance, and Trade from the Korbel School of International Studies with a concentration in Sustainable Development.



Charley Rattan,
Charley Rattan Associates

Charley Rattan - offshore wind business advisor and trainer with many years' senior level experience within the industry. Currently advising and mentoring governments, organisations and companies engaging with the global energy transition with a focus on offshore wind, floating offshore wind, ammonia and hydrogen. Supporting supply chain companies, technology innovators, policymakers and investors to identify and secure new business opportunities in hydrogen and offshore wind. Passionate about renewable energy, working for Shell, Eon and SSE consenting hundreds of MW of wind energy assets. With a reputation for effective communication and managing complex, sometimes controversial projects that are delivered on time, safely and within budget. An international commentator and keynote speaker on energy, Charley is a regular radio, digital and television broadcaster.



Siegfried Kiss,
RAG Austria

Siegfried Kiss is Head of Business Development for RAG Austria AG, a leading company in the European Underground Gasstorage Business. His main focus is to innovate and advocate gaseous energy carriers with their main capability to store energy in a large scale and seasonally. Storage of Hydrogen has his key priority for the future. Siegfried brings over 15 years of experience in developing gasstorage projects, managing daughter companies of RAG and facilitating stakeholder relations. For many years he also had a mandate for representing RAG's voice in Bruxelles on the European level. Prior to RAG Austria he worked 11 years in different positions as an environmental engineer for the PORR group, an Austrian construction company. Siegfried holds a Master Degree in Petroleum Engineering from the Mining University in Leoben (Austria).



Alik Van Heek,
International Atomic Energy Agency

Ms. Dr. van Heek is working at the International Atomic Energy Agency as the Unit Head 3E Analysis, with 3E standing for Energy, Economics, Environment, within the Planning and Economics Studies Section of the Department of Nuclear Energy. Important topics within her work area are the role of nuclear power in sustainable development and climate change mitigation, as well as in energy systems with increasing shares of variable renewables. A recent new topic is the economics and business case of nuclear hydrogen production. She has a PhD in Nuclear Engineering from Germany and has been working on advanced nuclear concepts, nuclear safety and waste management in the Netherlands before entering IAEA.



Gail Klintworth,
Savo Project Developers

Gail Klintworth is the Chairman/Co-Founder of Savo Project Developers. This start-up identifies, builds, and sells pioneer sustainable businesses and projects, working with leaders in high-growth emerging markets. Their current pipeline includes sustainable industrial parks & zones, captive power solutions and a mixed-use regenerative town. Savo, inspired by the Business Sustainable Development commission, which Gail helped lead as Business Transformation Director, has been generously supported as a scale-up partnership (SSEZ Africa) by the P4G Global Fund. Gail also serves as Chair and NED of several organisations committed to regenerative growth, including the Shell Foundation, Globescan Pty Ltd, Integrity Action, MAS Holdings and Tiger Brands. Previously Gail held global and local leadership roles in strategy, operations and sustainable business with Unilever (FMCG) and Old Mutual (Financial Services).