Israel’s Energy innovations

Ministerial-level Thematic Forums - Innovation, Technology and Data

**Date & Time: 22 June 2021, 14.00 - 15.15 EST**

Sustainable Development Goal 7 – ensuring access to affordable, reliable, sustainable, and modern energy for all – holds a unique position in the nexus between the 2030 Agenda and the Paris Agreement. Ensuring universal access is necessary for creating sustainable economic growth and development. Failure to transition to sustainable energy systems will jeopardize the fight against climate change and threaten human well-being and economies for decades.

**In this event, we will share good practices that illustrate the key role of innovation and data in the implementation of SDG 7 targets concerning energy efficiency and renewable energy. We will share innovative enhancements to energy ecosystems on the road to the High-level Dialogue on Energy in September 2021.**

Innovation has played a critical role in progressing towards the SDG 7 targets. The surge of renewable energy technologies has been growing and innovation has enabled technologies such as smart metering, energy storage, and battery technologies to manage and grow the ever-increasing share of variable renewable energy.

The need to deliver the SDGs within the next nine years is further driving a shift in innovation priorities toward addressing key aspects of energy ecosystems. Such progress intersects with sectors such as transport, health, agro-industries and food-value chains, manufacturing, construction, and urban infrastructure, and the role that women and men can play in advancing a just energy transition.

Such innovations offer a strong boost to sustainable development for many people in different contexts around the world. This shift is further enabled by the convergence of digital technologies, data and information networks, and related disciplines, which are accelerating the speed and scale of progress toward the SDG 7 targets.

Future innovation in energy systems must be devoted to net-zero carbon and universal energy access. Therefore, achieving system-wide, low carbon, affordable and just transformation of the energy systems will continue to require innovation across a broad range of areas including innovation in policy, governance, finance, and social aspects. This demand needs collective action and a joint effort from national and local governments, civil society, international actors, and the private sector.

The speakers will touch on all these interdependent areas. We expect that this thought-provoking event will be a starting point for conversations and action outside the walls of the UN.

Agenda

**Welcome and Opening remarks by**

Ambassador **Gilad Erdan**

Israel's Ambassador to the US & UN

Introduction by

Representative of Israel’s Ministry of Energy

Presentations by Companies:



With the help of unique Alkaline Exchange Membrane technology, **HydroLite** is helping to accelerate the green energy revolution through superior, low-cost green hydrogen generation and power delivery solutions. HydroLite combines world leading technical expertise with innovative systems design towards realizing a vision of affordable, green hydrogen solutions and a post-carbon global community.



**Luminescent Solar Power** is developing new solar energy technology to produce solar electricity 24/7 for less than 5 cents LCOE. The main innovation is a small, efficient, and low-cost heat engine that combines PV & heat engines simultaneously. Using modular building blocks, the landmark technology is as simple to deploy as photovoltaics, but with double the efficiency. Luminescent has created a revolutionary, cleaner, cheaper solar energy.



**Eco Wave Power** has patented a smart and cost-efficient method for turning ocean and sea waves into electricity. Using coastal “floaters,” EWPG harnesses the motion of waves to rotate a hydraulic motor that transfers power directly to the grid. Fully modular, scalable, and automated; Eco Wave Power provides a green and novel approach to energy generation for communities across the world.



**mPrest** provides real-time and mission-critical orchestration and optimization software for the modernization of the energy grid and distributed energy markets. They utilize their expertise to facilitate development across a wide range of markets, including smart cities, connected vehicles, and water. Using mPrest DERMS (Distributed Energy Resource Management System) and it's Orchestration Platform (mGinie) reduce significantly the total cost of energy and incorporate efficiently renewable energy with Smart Grid management.

Closing remarks

**Gideon Friedmann**

Chief Scientist - Israel’s Ministry of Energy