



# The Hydrogen Value Chain Course

## 16-17 June 2024, 9:00-17:00

Course organizer: Dr. [Racheli Kreisberg](#), CEO, IBEX Ltd.

Sponsors:



**Focus:** You will receive a concise overview of the hydrogen value chain and learn about the latest technological developments, Israeli hydrogen policy, international cooperation, and funding opportunities.

**Format:** online

**Course target audience:** Israeli participants from private sector, academia, and government

**Language:** the course will be conducted in Hebrew and in English

**Course fee:** 550 NIS/person + VAT

## Sunday 16 June 2024

Time	Content	Lecturers
<b>Hydrogen Production, Storage and Transportation</b>		
09:00 – 09:05	<b>Welcome</b>	Racheli
09:05 – 09:10	<b>Opening words Prof. Ad van Wijk, TU Delft, the Netherlands</b>	<a href="https://youtu.be/VnmJcOHafBo">https://youtu.be/VnmJcOHafBo</a>
09:10 – 09:45	<b>Overview of the Hydrogen Value Chain</b> <ul style="list-style-type: none"><li>- Role of hydrogen in the energy transition</li><li>- Hydrogen characteristics and comparison to natural gas</li></ul>	Prof. <a href="#">Lior Elbaz</a> , Bar Ilan University
09:45 – 10:40	<b>Production of hydrogen – principles easily explained</b> <ul style="list-style-type: none"><li>- Basic hydrogen chemistry</li><li>- Production methods, the colours of hydrogen</li><li>- Focus on green and blue hydrogen</li></ul>	Prof. <a href="#">Lior Elbaz</a> , Bar Ilan University
10:45 – 11:00	Q&A and Break	
11:00 – 11:45	<b>Production of green hydrogen – Israeli innovation</b> <ul style="list-style-type: none"><li>- The E-TAC (Electrochemical, Thermally Activated Chemical) technology to produce green hydrogen, H2Pro</li><li>- Hydrolite's innovative electrolyzer and FC technology</li></ul>	<a href="#">Rotem Arad</a> , H2Pro <a href="#">Dr. Ervin Tal-Gutelmacher</a> , Hydrolite
11:45 – 12:30	<b>Production of blue hydrogen – Israeli and US innovation</b> <ul style="list-style-type: none"><li>- Carbon Capture Usage &amp; Storage (CCUS)</li><li>- Carbon dioxide removal (CDR)</li></ul>	<a href="#">Marat Maayan</a> , Airovation <a href="#">Yoav Nahmias</a> , Equatic





12:30 – 13:20	Lunch break	
13:30 – 14:15	<b>Hydrogen transport and storage</b> - Transport and storage solutions - Hydrogen pipelines	Prof. <a href="#">Lior Elbaz</a> , Bar Ilan University
14:15 – 14:45	<b>Hydrogen transport and storage – Israeli innovation</b> - HydroX - Electriq Global	<a href="#">Assaf Sayada</a> , HydroX <a href="#">Dmitry Lisitsin</a> , Electriq Global
14:45 – 15:15	<b>Hydrogen transport via physical pipelines - infrastructure</b>	<a href="#">Yair Rubinstein</a> , Israel National Gas Lines נתג"ר
15:20 – 17:00	<b>Overview of European Hydrogen regulation</b> - Regulatory framework - Targets and Certification - Regulation for hydrogen projects (Hydrogen Package and Net Zero Industry Act)	<a href="#">Marina Hritsyshyna</a> , hydrogen regulation expert
<b>17:00</b>	<b>End of Day I</b>	

## Monday 17 June 2024

Time	Content	Lecturer
<b>Off takers, hydrogen regulations, national agenda, hydrogen valleys, safety, funding opportunities</b>		
09:00 – 09:15	<b>Welcome &amp; reflection on day 1 + Introduction Day 2</b>	Racheli
09:15 – 10:00	<b>Introduction to hydrogen off takers in the mobility, industry and built environment</b>	<a href="#">Eli Winkler</a>
10:00 – 10:45	<b>Off takers in Israel – from vision to reality</b> - H <sub>2</sub> refuelling stations - H <sub>2</sub> heavy trucks and H <sub>2</sub> locomotive	<a href="#">Amichay Bram</a> , Sonol <a href="#">Eliko Angel</a> , Bazan Group
10:45 – 11:10	Q&A and Break	
11:15 – 12:00	<b>Introduction to Sustainable Aviation Fuel (SAF) – pathways, business potential, implementation, and regulation</b> -	<a href="#">Yuval Kallus</a>
12:00 – 12:30	<b>Off takers in aviation industry</b> - SAF in the aviation industry - SAF regulation in the EU	<a href="#">Hagai Mazursky</a> , Boeing <a href="#">Marina Hritsyshyna</a> , hydrogen regulation expert
12:30 – 13:15	Lunch break	
13:20 – 13:50	<b>Israel national hydrogen strategy</b> - National targets - Hydrogen valleys	<a href="#">Meshi Laks</a> , Ministry of Energy
14:00 – 14:45	<b>Israeli Hydrogen Valley initiatives</b> - Green Sdom (ICL) - Eilat Eilat Hydrogen Valley	<a href="#">Yaniv Steiner</a> , ICL <a href="#">Yam Efrati</a> , DORAL Energy





14:45 – 15:00	Q&A and Break	
15:00 – 16:00	<b>Cyber Security Protection in ICS (Industrial Control Systems), especially in the Hazardous Materials Industry</b>	<a href="#">Yosi Shavit</a> , Head of ICS Cyber Security Department, Ministry of Environmental Protection
16:00 – 16:30	<b>International funding opportunities</b> <ul style="list-style-type: none"><li>- EU projects</li><li>- BIRD Foundation funding opportunities</li></ul>	<a href="#">Asaf Aharon</a> , Israel Innovation Authority <a href="#">Natalie Galperin</a> , CFO BIRD Foundation
16:30 – 17:00	<b>Wrap up</b>	Racheli
17:00	<b>End of the course</b>	

