



# The Hydrogen Value Chain Course

## TBD, 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:** TBD NIS/person + VAT

**Registration:** <https://forms.gle/92gg6xHZPFYzXpV6>

## Day 1

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 Dr. Amit Mor, Advisory Board Hydrogen Israel and CEO EcoEnergy</b>	Dr. <a href="#">Amit Mor</a>
09:10 – 09:30	<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
09:30 – 10:15	<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
10:15 – 11:00	<b>Production of green hydrogen – Israeli innovation</b> 10:15-10:35 The E-TAC (Electrochemical, Thermally Activated Chemical) technology to produce green hydrogen, H2Pro  10:35-10:55 Hydrolite's innovative electrolyzer and FC technology	Mr. <a href="#">Rotem Arad</a> , H2Pro  Dr. <a href="#">Ervin Tal-Gutelmacher</a> , Hydrolite
11:00 – 11:15	Break	





11:20 – 11:45	<b>Green hydrogen production by wastewater electrolysis</b> <ul style="list-style-type: none"> <li>- Industrial wastewater</li> <li>- Municipal wastewater</li> </ul>	Dr. <a href="#">Joseph Lehmann</a> , Purammon
11:45 – 12:30	<b>Production of blue hydrogen – Israeli and US innovation</b> 11:45-12:05 Carbon Capture Usage & Storage (CCUS)  12:05-12:25 Carbon dioxide removal (CDR)	Mr. <a href="#">Marat Maayan</a> , Airovation  Mr. <a href="#">Yoav Nahmias</a> , Equatic
12:30 – 13:20	Lunch break	
13:30 – 14:15	<b>Hydrogen transport and storage</b> <ul style="list-style-type: none"> <li>- Transport and storage solutions</li> <li>- Hydrogen pipelines</li> </ul>	Prof. <a href="#">Lior Elbaz</a> , Bar Ilan University
14:15 – 15:00	<b>Hydrogen transport and storage – Israeli innovation</b> 14:15-14:35 HydroX  14:35-14:55 Electriq Global	Mr. <a href="#">Assaf Sayada</a> , HydroX  Mr. <a href="#">Dmitry Lisitsin</a> , Electriq Global
15:00 – 15:30	<b>Hydrogen transport via physical pipelines - infrastructure</b>	Mr. <a href="#">Yair Rubinstein</a> , Israel National Gas Lines נתג"ר
15:30 – 15:45	<b>Q&amp;A and Break</b>	
15:50 – 16:10	<b>Regulation &amp; Standardization</b> <ul style="list-style-type: none"> <li>- Standardization of Hydrogen Refueling Stations in IL</li> <li>- Existing international standards (i.e., ISO and IEC)</li> </ul>	Dr. <a href="#">Michal Philosoph</a> , Standard Institution Israel (SII)
16:10 – 16:30	<b>The Hydrogen Challenge: Legal and Regulatory Perspectives in Israel</b> <ul style="list-style-type: none"> <li>- H<sub>2</sub> regulatory in Israel including government decisions and Ministry of Energy policy</li> <li>- Main regulatory aspects required for the various H<sub>2</sub> uses</li> <li>- Regulation as a tool to advance policies for H<sub>2</sub> use</li> </ul>	Adv. <a href="#">Ronit Rozenstein-Barel</a> , Gornitzky & Co.
<b>17:00</b>	<b>End of Day I</b>	

## Day 2

Time	Content	Lecturer
<b>Off takers, hydrogen regulations, national agenda, hydrogen valleys, safety, funding opportunities</b>		
09:00 – 09:10	<b>Welcome &amp; reflection on day 1 + Introduction Day 2</b>	Racheli
09:10 – 10:00	<b>Introduction to hydrogen off takers in the mobility, industry and built environment</b>	Mr. <a href="#">Eli Winkler</a>
10:00 – 10:45	<b>Off takers in Israel – mobility</b> 10:00-10:20 H <sub>2</sub> refuelling stations 10:20-10:40 H <sub>2</sub> heavy trucks	Mr. <a href="#">Amichay Bram</a> , Sonol Mr. <a href="#">Eliko Angel</a> , Bazan Group





10:45 – 11:00	Q&A and Break	
11:00 – 11:45	<b>Off takers in Israel – electricity</b> 11:00-11:20 NG H2 blending to produce electricity 11:20-11:40 TBD	Mr. <a href="#">Alex Lazebnikov</a> , IEC TBC
11:45 - 12:15	<b>Israel's national hydrogen strategy</b> <ul style="list-style-type: none"> <li>- National targets</li> <li>- Hydrogen valleys</li> </ul>	Ms. <a href="#">Meshi Laks</a> , Ministry of Energy
12:15 – 13:00	<b>Israeli Hydrogen Valley initiatives</b> 12:15-12:35 Green Sdom (ICL) 12:35-12:55 Newly established hydrogen valleys in the Eastern Mediterranean Region	Mr. <a href="#">Yaniv Steiner</a> , ICL Mr. <a href="#">Patrick Cnubben</a> , Hydrogen Architect
13:00 – 14:00	Lunch break	
14:00 – 14:30	<b>Israel national hydrogen strategy - continued</b> <ul style="list-style-type: none"> <li>- Defining IL's minimal and maximum hydrogen targets</li> <li>- Forecast for 2050</li> </ul>	Dr. <a href="#">Shahar Dolev</a> , Ministry of energy
14:30 – 15:30	<b>What is required to develop a winning business case for green hydrogen?</b> <ul style="list-style-type: none"> <li>- Understanding where green hydrogen is on the technology adoption lifecycle</li> <li>- Focusing on the compelling reason to buy, what is the value to the customer</li> <li>- Scaling up from early adopters to the early majority</li> <li>- Embracing competition</li> <li>- Pricing for long term success</li> </ul>	Mr. <a href="#">John Poljak</a> , CEO Key Numbers, Australia
15:30 – 15:45	Q&A and Break	
15:45 – 16:05	<b>International funding opportunities</b> <ul style="list-style-type: none"> <li>- EU projects</li> </ul>	Mr. <a href="#">Asaf Aharon</a> , Israel Innovation Authority
16:05 – 16:45	<b>The Israeli hydrogen startup ecosystem</b> 16:05-16:20 IL's H <sub>2</sub> startup ecosystem 16:20-16:40 Investing in and accelerating IL H <sub>2</sub> startups	Mr. <a href="#">Alon Turkaspa</a> , Startup Nation Central Ms. <a href="#">Yael Weisz</a> , Net Zero Tech Ventures
16:45 – 17:00	<b>Wrap up</b>	Racheli
17:00	<b>End of the course</b>	

