



# “Drop the Million”

Sdom site annual Carbon footprint ~ 1 million tons of CO2 equivalent

## The Green Sdom project



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Director Business Development Energy, ICL

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# Global Leader Dedicated to impact **sustainable future**

We are a leading global specialty minerals company that creates impactful solutions in the global food, agriculture, and industrial markets



# Creating impact and sustainable growth

Committed to growing in our target markets



## Agriculture

Acquisitions in Brazil to provide opportunities for growth  
Focus on a new innovative Solutions



## Food

Continued focus on specialties growth, with alternative protein plant on schedule



## Industrial

Shift to long-term contracts, with investments in innovation and growth

# We Produce, Sell and Innovate Globally



**50**

Production sites  
in 13 countries



**44**

Logistics and sales  
services in over  
30 countries



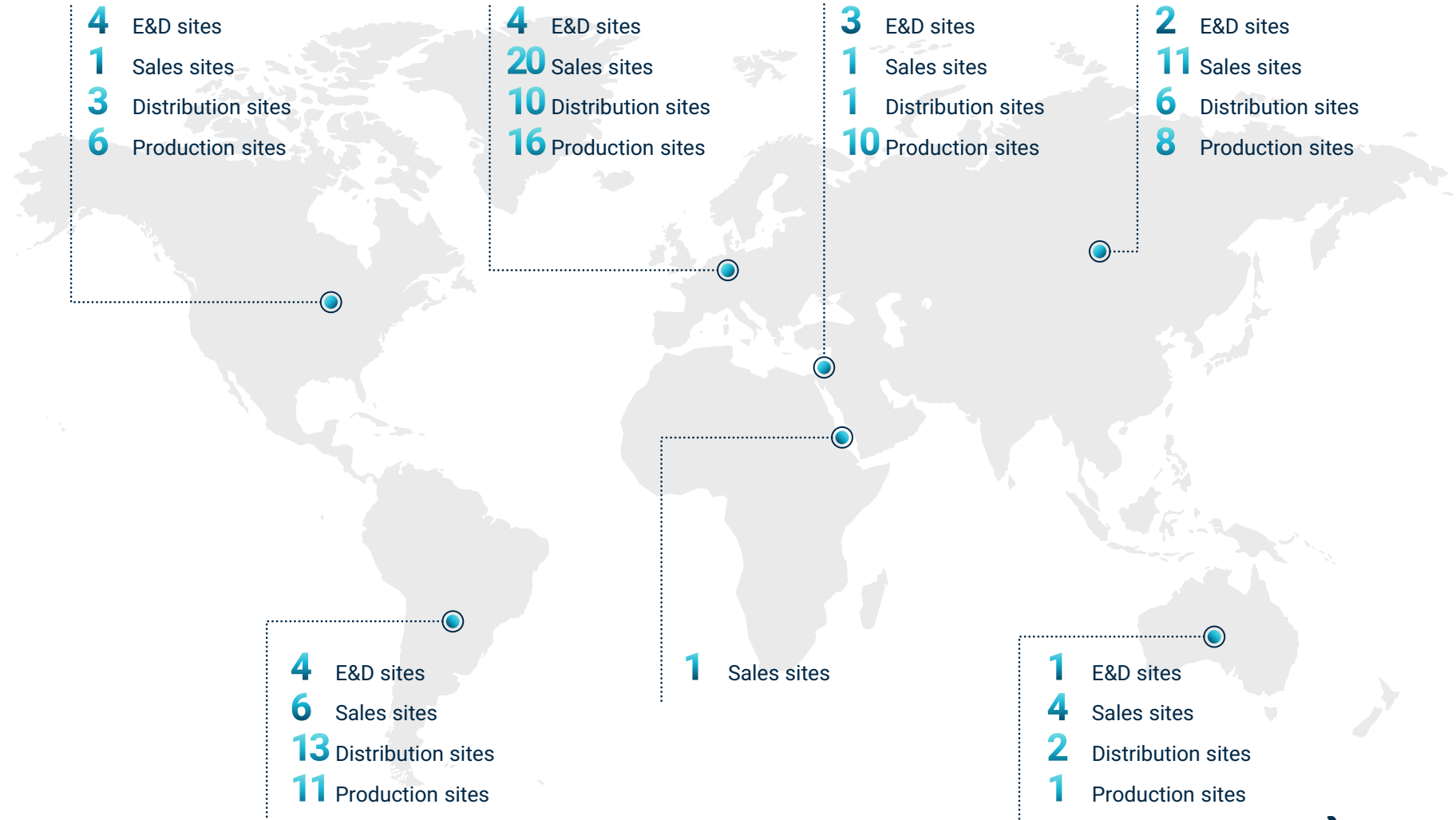
**12K**

Full-time employees  
worldwide



**~400**

of them R&D

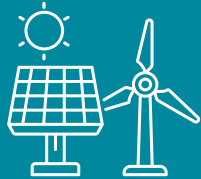


# ICL sustainability objectives



## 100%

Absolute GHG emissions Scope 1,2, reduction of 30% by 2030 to become carbon neutral by 2050



## 54%

Increase share of renewable energy consumption to 50% by 2040



## 3%

Increasing circular economy & water savings impact by additional 3% recycling of waste streams per year



## 1%

Supporting community initiatives by Contributing 1% of income (before tax)



## Community

Promoting personal environmental responsibility & volunteering of our employees

# ICL sustainability objectives



**100%**

Absolute GHG emissions Scope 1,2, reduction of 30% by 2030 to become carbon neutral by 2050

**NET  
ZERO**



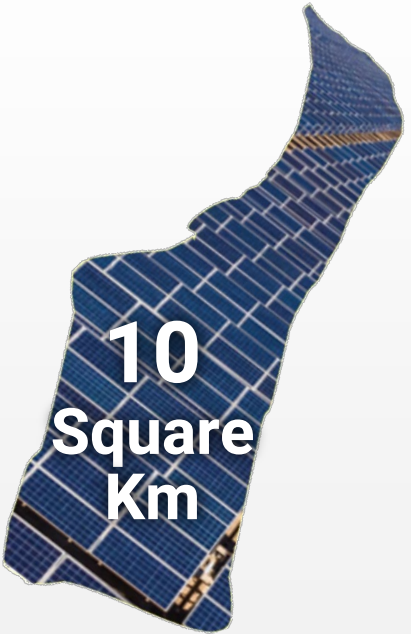






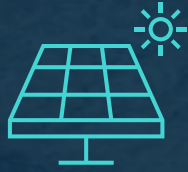


NET  
**ZERO 2050**





# Green Sdom



**1,000 MWp**  
(2,000,000 MWh)



**Hydrogen**  
~ 30-40 K ton  
Per Annum



**Storage**  
Electrical Storage  
Thermal Storage  
Other Storage



**Direct consumption**  
~ 150 MW



The position on the scale will be according to the economics between kWh hydrogen and kWh storage



**Sdom site**



# Green Sdom

**Green Power Plant**

**Zero Carbon footprint**

**Green Production Plants**

**100% Green Products**

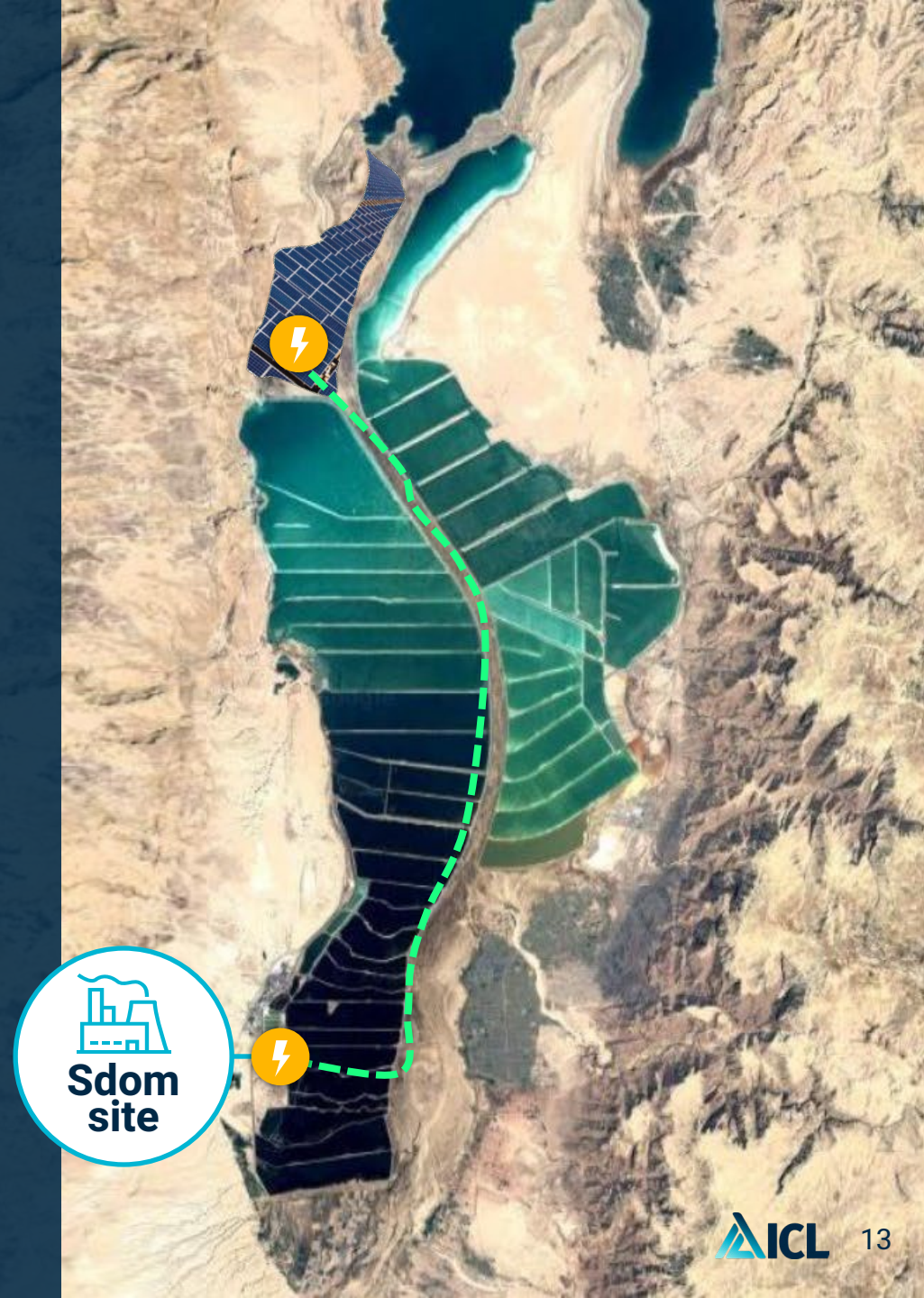
Potash | Bromine | Salt | Magnesium

**New Green Products**

Ammonia, Products based H<sub>2</sub>, H<sub>2</sub> as Fuel.

**Green Logistic Chain**

H<sub>2</sub> fuel cell trucks.

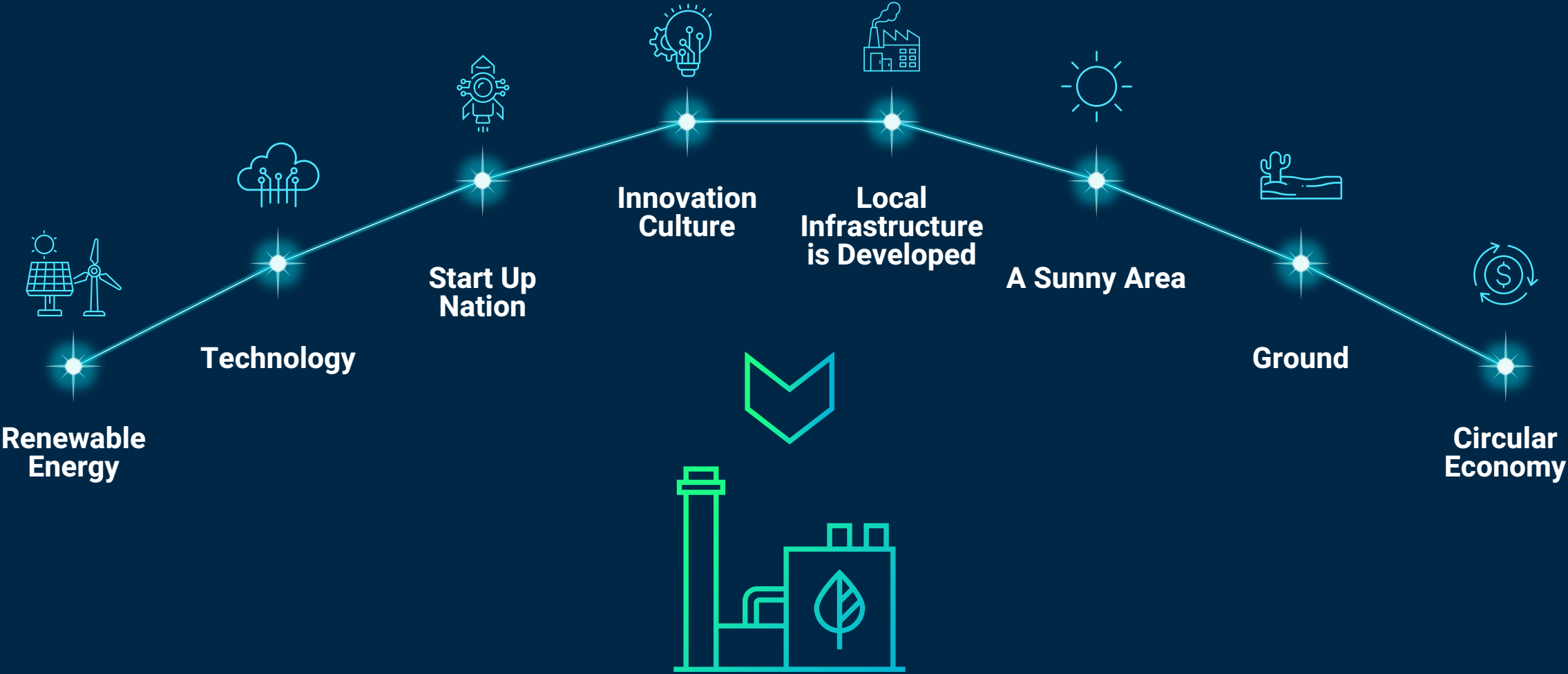


# Technological Challenges of the project

- PV under extreme conditions
- Energy storage technologies
- Hydrogen electrolysis efficiency
- Hydrogen storage
- The electricity transmission technology (from the field to the production site)
- Conversion of active production site to Green Energy



# When the Stars Align



# Green Sdom multi-interfaces national project



State of Israel

Legislation | Incentive grants | Fast approval routes | Infrastructure development



ICL

- Challenges
- Sand box
- Engineering support
  - Know how
  - International deployment
  - reputation



**The innovation community**

- Innovative solutions:
  - PV
  - energy storage
  - hydrogen



Research and academia



One of the  
**World**  
**Largest**  
Industrial  
green efforts



**Ambitious**  
Not imaginary





THANKS