

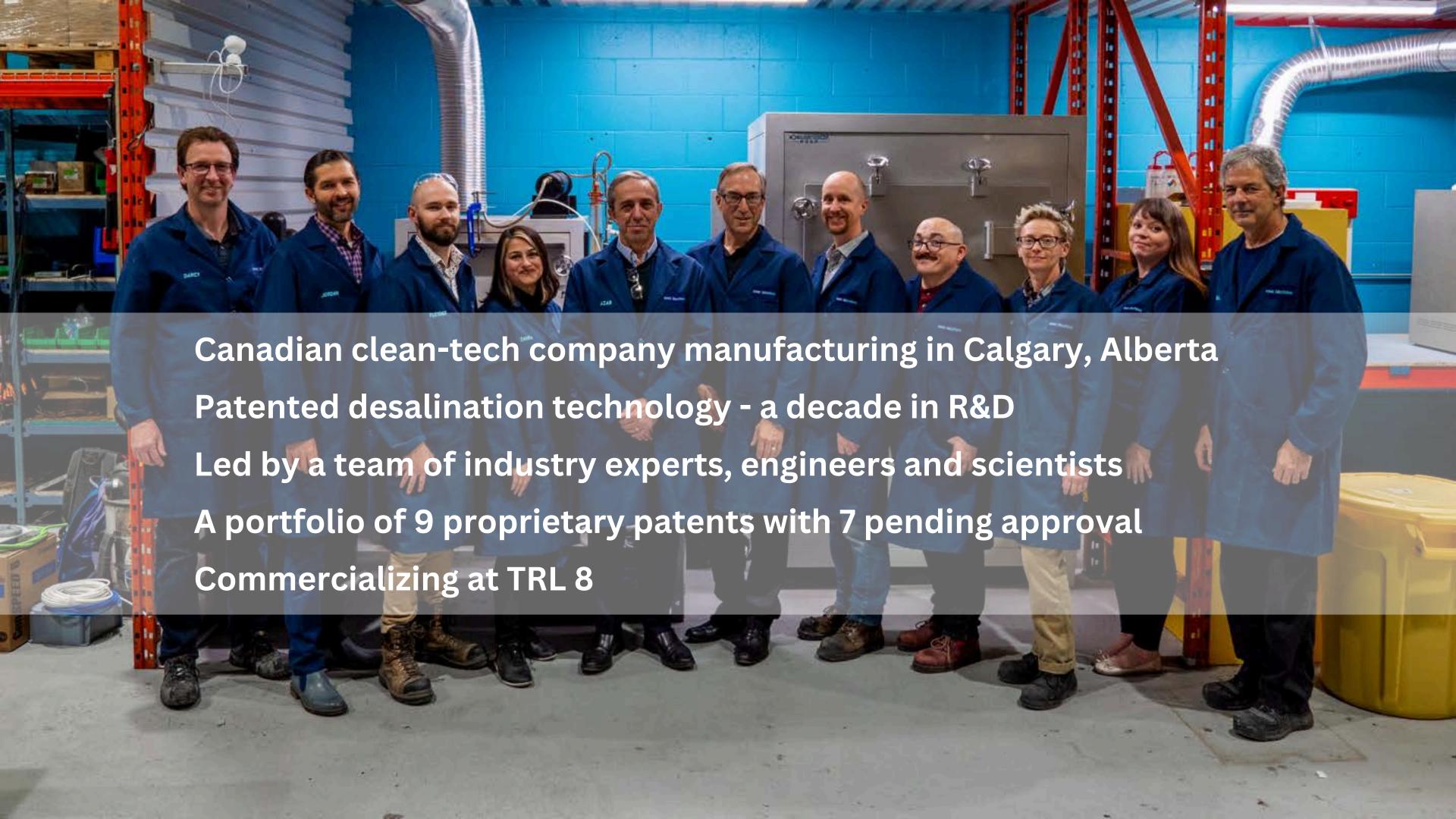




"Desalination will help us tackle the water crisis - but it has a significant environmental impact"

- World Economic Forum







What is C-EDR?

Capacitive Electrodialysis Reversal (C-EDR) is based on Electrodialysis Reversal (EDR) - which has been used to desalinate brackish water for 60 years.

It is still in industrial use today, though limited to low salinity, brackish water.

Ionic Solutions has transformed EDR technology by:

- 1. Eliminating redox reactions and dangerous gasses
- 2. Eradicating corrosion at electrodes
- 3. Increasing electrical efficiencies from 15% to over 80% to tackle higher salinities



Key features of our patented technology are:



Together, these features create a game changing desalination solution more flexible and efficient than anything else on the market





There are currently 21,000 desalination plants in operation

Twice as many as 10 years ago





Desalination sector growth is projected at

up to

12% annually





Reverse osmosis

accounts for 80% of the world's desalination capacity

and uses more than 200 million KWh of energy, every day



Reverse osmosis

HIGH pressure, HIGH energy 50% - 80% recovery Large brine (waste) volume Requires chemicals Membrane fouling Limited mineral control **High C02 emissions High OPEX costs**

C-EDR

LOW pressure, LOW energy 97% recovery Low brine (waste) volume 97% less anti-scalants No membrane fouling Controlled mineral content Low C02 emissions **Low OPEX costs**

An opportunity to change the world

The Ionic Solutions Advantage

40X less energy 94% higher recovery



Our 2024 project partners include...

- Con-Edison: one of North America's largest energy companies and operator of the world's largest steam system in the United States
- One of Canada's largest power utilities, based in Saskatchewan
- Ember Resources, Canada's largest natural gas producer
- Global Water Innovations, California's leading water project developer
- Canyon Meadows Golf Course, a 200-acre championship course in Calgary
- Alberta Innovates, the province's funding and innovation engine
- The Electric Power Research Institute



Examples of previous IPO transactions

Water startups



2021 Amsterdam
IPO Valuation \$650M
Raised \$198M for 30% of business
Revenue at time of IPO \$1.1M



2021 Canada TSX
IPO Valuation \$812M
Raised \$175M for 22% of business
Revenue at time of IPO \$100M



2021 Denmark
IPO Valuation \$270M
Raised \$40 for 15% of business
Revenue at time of IPO \$740K

Even with small revenues, these IPO's achieved valuations which are 13X - 40X Ionic Solutions valuation today.

Exit paths for investment - Acquisition

C-EDR is a niche technology within a much larger water tech ecosystem.











No ED technology

Inferior ED product

No ED technology

No ED technology

Inferior ED product

Our technology offers significant advantages to many of our competitors who currently have no electrodialysis technology or an inferior electrodialysis technology.

Meet the Ionic Solutions' Leadership Team

Barry Johnson, President and CEO

Co-founder
Serial entrepeneur
30 years in oil and gas
Former CEO of an
energy industry startup

Azar Yazdanbod, VP of R&D

Co-founder
30 years of technical
engineering experience
20 years in R&D
technology
development

Jordan Grose Executive Vice President

20 years building technical businesses 15 years in technology commercialization Relentless customer focus

Kevin Slough VP of Operations

Former CEO water tech start-up 25 years in water treatment industry 3x100 Canada's fastest growing companies

Marjorie Knight VP Finanace

20 years in financial management and international business

Internal controls and process development specialist



























WATER DEBALINATION TE

UTIONS IN THE WORLD.













