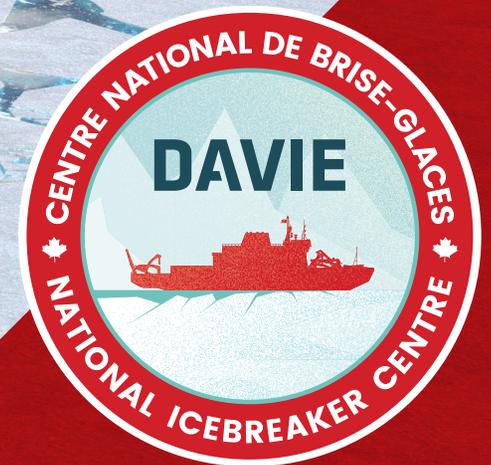
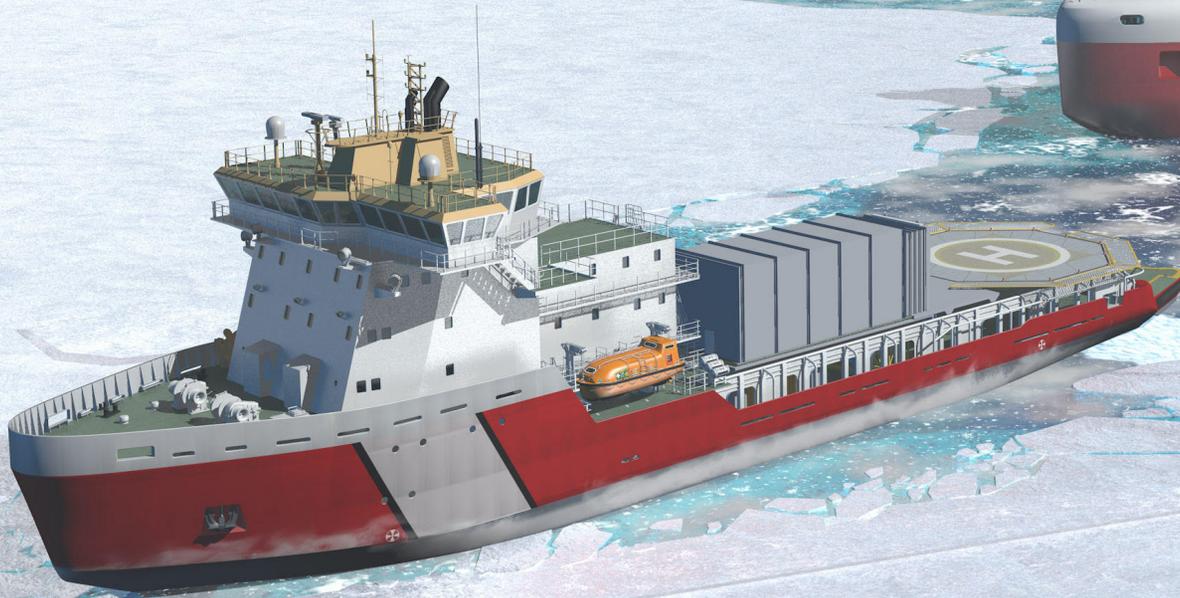


DAVIE NATIONAL ICEBREAKER CENTRE

ARCTIC
CENTRE OF
EXCELLENCE



Davie is Canada's National Icebreaker Centre



Canada's polar icebreaker partner of choice today and for the future



Multi-ship icebreaker orderbook as National Shipbuilding Strategy partner



Decades of cutting-edge Polar icebreaker expertise in newbuilding and maintenance



Track record of delivering mission-critical ships and polar icebreakers to Canada



Strategic location: Eastern Canada, St Lawrence, Great Lakes, Atlantic, Arctic



World-class workforce and pan-Canada supply chain of over 1,500 companies



Economic engine for Québec and Canada



Future world leader and exporter of Canadian polar icebreaker technology



Only facility with capacity and experience to build Canada's entire icebreakers fleet

Davie: Canada's icebreaker partner of choice

The National Icebreaker Centre (NIC) is a thought-leadership and innovation hub for Polar and Arctic technologies. The NIC reflects Davie's history as Canada's icebreaking partner and our future role in rejuvenating the entire ice-capable fleet. The NIC will create well-paid jobs and drive economic growth in Canada, while showcasing and exporting Canadian innovation worldwide.

Moreover, consolidating skills, capabilities and entire programs at Davie will ensure the icebreaker fleet is built in Canada by Canadians to the highest standards. Made in Canada has never meant more, as we seek economic recovery from the COVID-19 pandemic. Building at Davie would also enable Canada to create a high value export sector for world-class ships for the Arctic. To deliver the new fleet, Davie has partnered with leaders in icebreaker design, construction, fabrication and critical systems.

All vessels Davie has delivered over the past eight years have a high ice-class rating, including complex subsea construction vessels and LNG-powered ferries, which are built to operate year-round on the Saguenay river.

With a multi-year order book, the NIC will continue to be at forefront of the design, engineering and construction of an emerging generation of leading edge technology, environmentally responsible and more efficient multifunctional icebreakers.

Davie Icebreaker Orderbook

3 medium icebreakers (MIBs)



6 new building Program Icebreakers (PIBs)



1 Polar Icebreaker



Program Icebreakers

Under the NSS, Davie will construct six heavy Program Icebreakers (PIBs). The PIBs will be the CCG's backbone icebreakers with capability and capacity to meet current and far future needs. They will be able to operate in severe conditions and support missions during the winter ice season as well as summer expeditions to the Arctic.

20,000
nautical mile
range without
refuelling at
12 knots

Capable of
maintaining 3
knots in 1.4m
of ice



Significant
general and
containerized
cargo
capacity

Accommodate
more than
30 crew and
program
teams of 34

Able to
operate and
maintain one
medium CCG
helicopter

100-110
meters long;
beam under
23.8m for Great
Lakes; draft 6-8m

Polar Icebreakers

Davie has the capacity, infrastructure and experience to begin work today on the world's most powerful hybrid diesel-electric polar icebreakers. Davie has pledged to deliver the replacement for the CCGS Louis St Laurent ahead of Canada's schedule.

CCG's flagship
and world's most
powerful hybrid
(diesel-electric)
icebreaker

Sustained
operations
in the Arctic
Archipelago
over three
seasons per
year



Able to
accommodate
two helicopters
and will have
large cargo
carrying
capacity

Able to break
through 2.5m
of ice - greater
than any other
Canadian vessel

Economic Engine

With the support of the Québec government, Davie is a champion of the Québec Maritime Strategy and the creation of a vibrant maritime cluster, making the province a global destination for a wide range of polar and Arctic activities. Davie has and will continue to contribute billions of dollars to the Québec and Canadian economies. Since 2012, it has also sustained an average of over 1,300 well-paid full-time jobs. Davie also partners and shares its success with over 1,500 suppliers throughout Canada. Looking forward, the National Icebreaker Centre will have an assured pipeline of work worth billions of dollars until the 2040s and will offer important export opportunities for the Canadian economy.

Future focus

The need for a modern, versatile and efficient polar icebreaker fleet has never been greater. These unique ships benefit all Canadians by helping to protect and enable the economy, security, sovereignty and the marine environment.

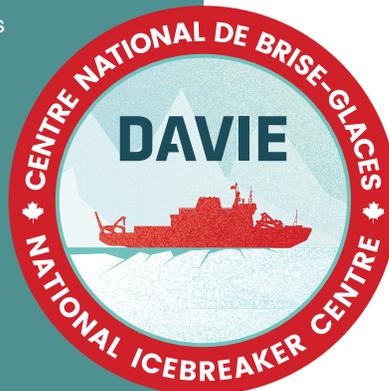
Climate change means the Arctic region is increasingly a hive of federal, academic and commercial activity. As sea ice declines, transpolar trade routes are becoming ever more navigable. With it, will come significant risks. State-of-the-art polar icebreakers are critical for ensuring the safety and sustainability of navigation in the Arctic.

Export opportunities

More than half of the world's icebreaker fleet is over 40 years old. Demand for these specialized vessels from both governments and private corporations is outstripping supply – a pattern which is sure to continue. This will see new commercial entrants requiring specialized multi-purpose ships as well as the continued renewal of many state assets.

There will also be potential for international strategic partnerships to work programmatically on key technologies and platforms as other industrial sectors such as aerospace have done successfully.

Increased activity in other harsh ice environments such as the Antarctic also offers a sizeable potential market for the leading-edge icebreaking technologies Davie offers.



How the Davie National Icebreaker Centre Works



Customer Needs

- Early identification of trends and opportunities to help our customers
- Deep understanding of what constitutes competitive, value-adding products and services
- Robust, trust-based collaboration with our customers



Delivery & Life Cycle Support

- Responsiveness and proactivity to ensure efficient delivery
- Track record of delivering complex projects on time, to budget
- Proven pedigree in repair, refit, conversion, upgrading



Manufacturing

- Leverage Canada's largest and highest capacity construction facility
- Continuous investment in facility, equipment, new techniques
- Focus on operational leadership – safety a key priority

“Davie is building Canada's new polar icebreaker fleet and rapidly becoming a global hub for Arctic expertise”



Contracting

- Decades of knowledge of federal contracting process
- Identifying risk with focus on creating value for our customer
- Track record of delivering complex projects on time, to budget



Design & Development

- Deep engineering experience to create best-in-class, safe and upgradable products
- Investment in latest technologies and capabilities
- Canadian and international partnerships on design and other key capabilities