Coast Guard Program
New Vessels
Status and plans

Odd Magne Nilsen
Commander
NDLO NS
Coast Guard Projects
Increased operational capability through efficient logistics
- Coast Guard fleet today
- Plans for HC carrying vessels
- New vessels
### Owned Coast Guard Vessels

<table>
<thead>
<tr>
<th>HC carrying vessels</th>
<th>KV Nornen-class</th>
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<tbody>
<tr>
<td><strong>KV Svalbard</strong></td>
<td><strong>KV Nornen</strong></td>
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<tr>
<td>Icebreaker</td>
<td>KV Tor</td>
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<tr>
<td>In service since 2002</td>
<td>KV Njord</td>
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<tr>
<td></td>
<td>KV Farm</td>
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<td>KV Heimdal</td>
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<tr>
<th><strong>Nordkapp class</strong></th>
<th><strong>KV Harstad</strong></th>
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<td>KV Nordkapp</td>
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<td>KV Senja</td>
<td>KV Farm</td>
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<tr>
<td>KV Andenes</td>
<td>KV Heimdal</td>
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<tr>
<td>In service since 1981</td>
<td>In service since 2005</td>
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</tbody>
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Increased operational capability through efficient logistics
Leased Coast Guard Vessels

- **Barentshav class**
  - KV Barentshav
  - KV Bergen
  - KV Sortland
  - In service 2005-2008
  - Contract until 2025 - 2028

- **KV Ålesund**
  - Contract until 2016

- **Reine class**
  - KV Magnus Lagabøte
  - In CG service since 2012
HC-carrying vessels

KV Svalbard

3 x Nordkapp class

1 new HC-carrying vessel
P6615 (1)

x new HC-carrying vessels
P3049 (x)

Increased operational capability through efficient logistics
P6615 New Coast Guard Vessel

• Purpose
Acquiring a new helicopter-carrying vessel with ice capability in order to maintain the Coast Guard's capability with regard to organic helicopters.
The vessel shall be able to perform all operations in a safe manner up to and including sea state 5

• Pending executive order (GO) from MoD
Platform Capability requirements

- Speed 22 knots
- Ice strengthened
- Sea-keeping (safe operations in SS5)
- Diesel electric propulsion
- Endurance 8 weeks (economic speed)
- Accommodation for maximum 100 persons
- Collective CBRN protection
- Container capacity on deck
- Towing capability
- FRB (Sea Bear MK III)
- Facilitate 2 boats for special purposes
Platform Capability requirements

• Helicopter capability
  – Landing aid for both day and night operations
  – Deck (strength / space for AW101 size)
  – Hangar (2 NH90)
  – Service and maintenance facilities
• Hospital facilities
• Operation rooms arranged to support both military and civilian operations
• Oil pollution prevention capability
  – Equipment for oil pollution prevention
  – Oil spill storage capacity
  – Assistance to Norwegian Coastal Administration
Military Capability requirements

- Command Control and Information system (C2I)
  - Including HC control
  - Picture compiler
  - Interface for Network based Defence (NbD)
- Military communication systems (classified and unclassified)
  - Radio systems
  - SATCOM systems
  - Link systems
Military Capability requirements

• Armament
  – Gun
  – Gun fire support (all weather)
  – Machine guns
• Sonar
• Echo sounder
• Storage support for armed HC (torpedos and mines)
General regulations

- Naval Ship Code (ANEP-77)
  - ch IV, VI, VII og X
- IMO/MARPOL 73/78
  - Air pollution prevention
  - Sea pollution prevention
- NRAR:
  - Structure
  - Electrical systems
  - Pre-treatment and painting
  - Helicopter integration
  - Habitability
Class notations (DNV GL)

- **1A1**
- NAVAL SUPPORT (stab)
- NBC-2
- HELDK-SHF(CAA-N)
- ICE 1A*F
- RPS+
- NAUT-AW(ICS)
- DYNPOS-AUTR
- WINTERIZED POLAR(-30°)
- DEICE

- E0
- COMF V1C1
- FIFI 1
- OILREC
- BWM-T
- CLEAN-DESIGN
P6615 Pre-procurement activities

- Basic design
- Model tests
- Weight calculation
- Technical specification
- Station keeping analysis
- Operability analysis
- Armament analysis
Basic Design

- General arrangement (GA)
- Design support activities
  - Weight estimation
  - Preliminary stability analysis
  - Internal watertight integrity plan
  - Speed-power estimation
  - Profile and plan drawings
  - Line plan
  - Tank plan
  - Mid-ship section
  - Electrical load analysis
  - Propulsion arrangement analysis
Main dimensions

- Length over all (LOA): 136.40 m
- Length betw. Perp. (LPP): 126.40 m
- Breadth Moulded: 19.00 m
- Draught at DWL: 6.20 m
- Depth to 1. deck: 11.00 m

- Light ship weight: 7.300 t
- Dead Weight: 2.500 t
- Displacement: 9.800 t
- Steel Weight: 4.500 t
Increased operational capability through efficient logistics
Model tests at MARINTEK

- Performance test
- Sea keeping test
Tentative schedule

- Executive order from MoD          Q4 - 2014
- Pre-qualification                Q2 - 2015
- Invitation to tender             Q3 - 2015
- Negotiation                      Q1 - 2016
- Yard contract                    Q4 - 2016
- Production completed             Q3 - 2019
- Tests
Helicopter facilities
Increased operational capability through efficient logistics

Boat facilities
Environment pollution prevention

Equipment delivered by Norwegian Coastal Administration
Increased operational capability through efficient logistics
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