

CASE STUDY:  
Nova Centre

Industry:  
Convention Center/  
Mixed Development



**NOVA CENTRE  
LOCATION**

1650 Grafton St,  
Halifax, NS B3J 0E8

**BUILDING SIZE**

1,000,000 sq ft

**ENGINEERING FIRM**

MCW Consultants Ltd

**BOILER PROFILE**

5 – Dynaforce - (DNRH  
4500) Fully Condensing  
Boilers complete with  
MBS protocol converter

**FEATURES**

4,500,000 BTU's of input  
and 4,253,000 BTU's  
output each

Lead-leg cascade control  
of 5 boilers

Each boiler has a 5:1  
Turndown ratio

The boilers use 316L /  
439 grade stainless steel  
counter flow, primary/  
secondary construction

Up to 99% thermal  
efficiency

Premix fibre mesh burner  
provides extremely low  
NOx emissions (less than  
9ppm)



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The Nova Centre is a one-million square foot mixed development which is truly for everyone. It was inspired and shaped by the community. The new convention centre, boutique hotel and the business centre share space with restaurants, shops and Rogers Square, a European-style shared street.

The centre's architecture pays tribute to our seafaring past with the main tower resembling the rising sale of a ship arriving in Halifax Harbour. The centre was constructed targeting LEED Gold certification – and this environmental awareness, smart technology and modern design make it a leader in the industry.

**Engineering Firm: MCW Consultants Ltd**

They are a fully integrated mechanical and electrical consulting engineering service company with more than a half century of consulting experience.

**Camus Boiler Function:**

The Camus boilers are providing primary heating to the building and they are set in cascade daisy chain formation, with "outdoor reset". This Lead-Lag set up provides parallel sequential modulation of all five (5) boilers, enabling them to handle variation in heating load demand.

