



BUILDING TRADES OF
NEWFOUNDLAND & LABRADOR

Annual Average
Economic Impacts
Constructing **Mega Construction Projects**
in Newfoundland and Labrador

Construction Industry Overview



Critical to Canada & NL Economy



5th highest contributor to GDP



About **40%** of workforce unionized
NL & QC highest in Canada



Mega projects have been robust for **35 years**



Started in earnest with Hibernia

35 YEARS CONSTRUCTING MEGA PROJECTS

1990-2024



1990-97

Hibernia
GBS



1998-02



Terra Nova
FPSO



2002-05

Sea Rose
FPSO



2009-16

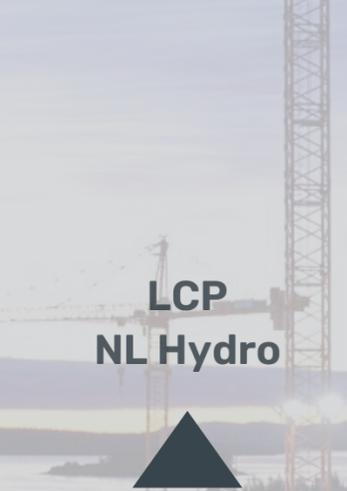


Long Harbour
Hydromet plant



2011-17

Hebron
GBS



2013-21



LCP
NL Hydro



2016-24

Voisey's Bay
Underground
Mine



2017-24



WWRP
CGS

Mega Project Person-Hours

Hibernia Gravity Based Structure	 63,000,000 HRS	41,580,000 HRS in NL
Terra Nova FPSO	 19,000,000 HRS	12,000,000 HRS in NL
Sea Rose FPSO	 16,043,823 HRS	11,373,884 HRS in NL
Long Harbour Hydromet Plant	 42,211,090 HRS	39,504,426 HRS in NL
Hebron Gravity Based Structure	 74,325,432 HRS	N/A
Lower Churchill Hydro Generation	 49,060,585 HRS	41,466,958 HRS in NL
Voisey's Bay Underground Mine	 19,134,969 HRS	17,388,400 HRS in NL
West White Rose Concrete Based Structure	 22,683,201 HRS	14,397,904 HRS in NL

Multiple projects constructed at the same time

2011
2016

Hydromet + Hebron + LCP + VB Underground

4

2017

Hebron + LCP + VB Underground + WWRP

4

2018
2021

LCP + VB Underground + WWRP

3

2022
2024

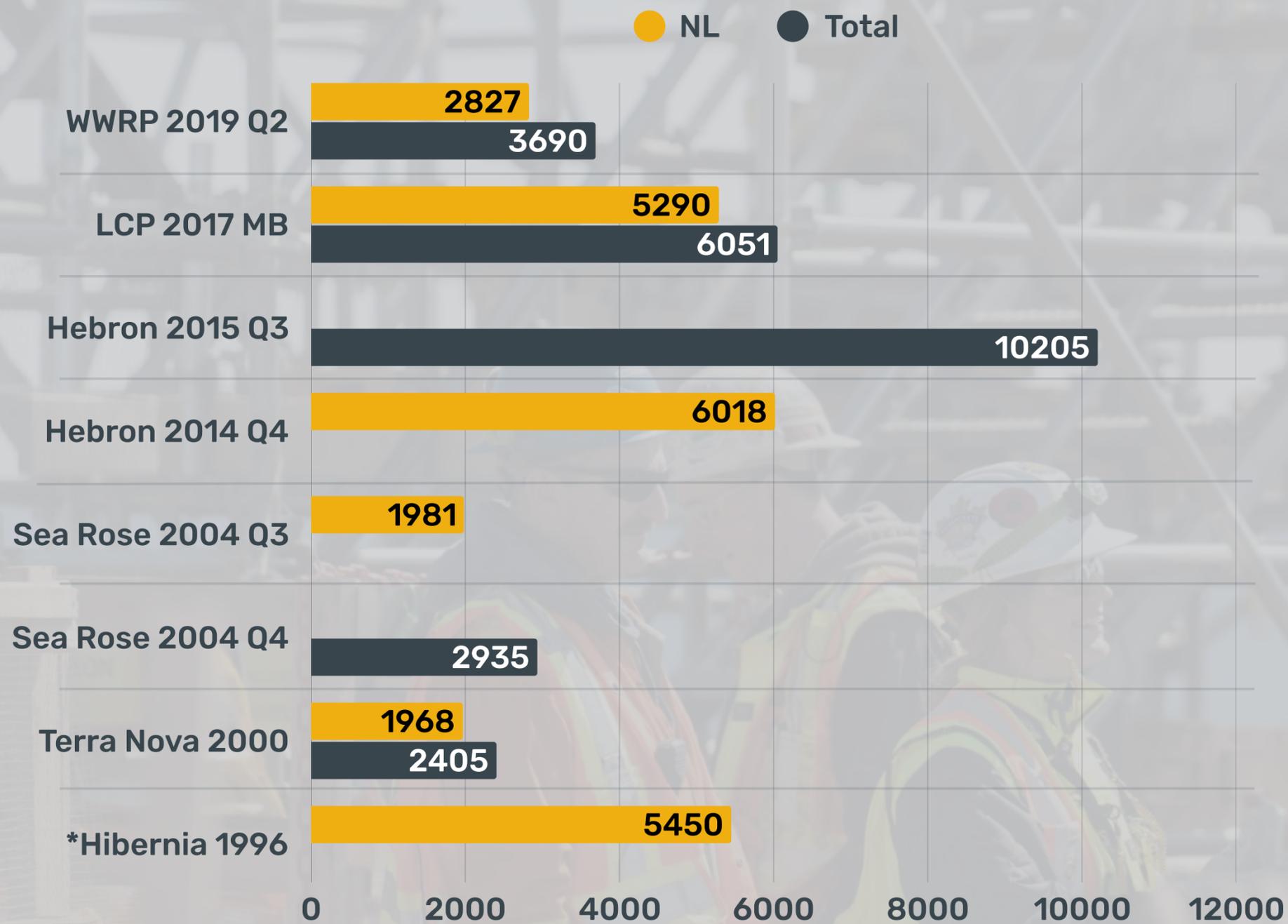
VB Underground + WWRP

2

Employment Mega Projects – 35 yrs

Notes:
Annual Hibernia NL only, annual Terra Nova/Sea Rose, qrtly annual average Hebron/WWRP, mthly annual average LCP
Excludes LH Hydromet & VB underground mine
Source: Monitoring reports oil & gas operators, NL Hydro

Peak Employment by Project



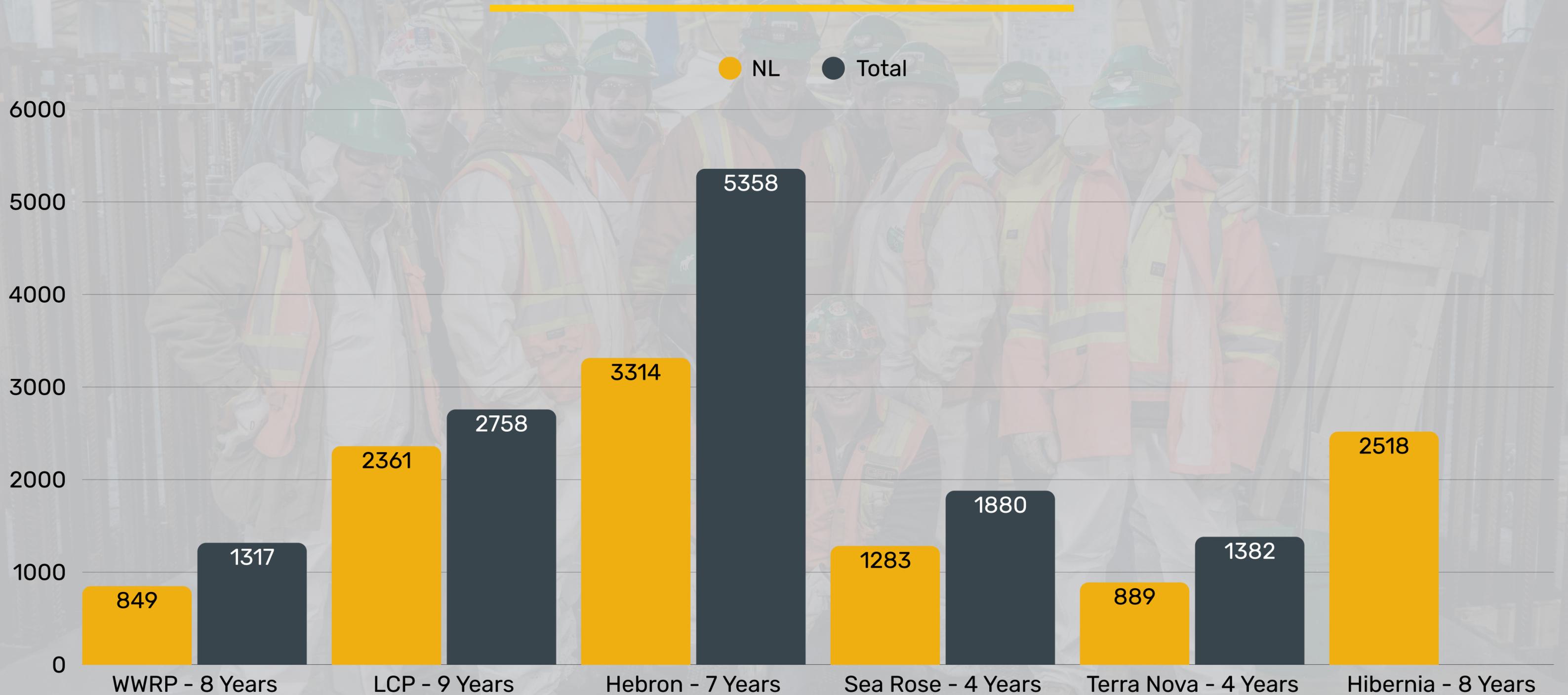
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Source: Monitoring reports oil & gas operators, NL Hydro

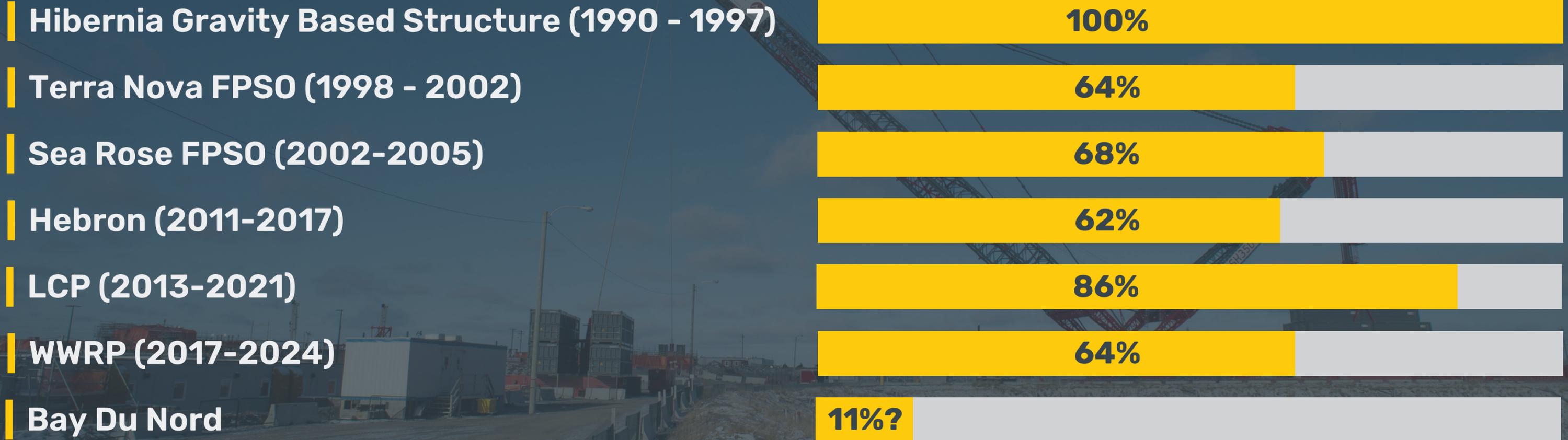
Average Employment by Project



Source: Monitoring reports oil & gas operators, NL Hydro

% Employment by Project

● NL ● Out of Province



NL Mega Projects – Labour Income Impacts in **BILLIONS**

Project	Direct	Indirect	Induced	Total
Hibernia Gravity Based Structure	N/A	N/A	N/A	N/A
Terra Nova FPSO	\$0.08B	\$0.40B	N/A	\$0.48B
Sea Rose FPSO	N/A	N/A	N/A	\$0.37B
Long Harbour Hydromet Plant	\$1.50B	\$0.40B	\$0.20B	\$2.10B
Hebron Gravity Based Structure	\$2.80B	\$1.60B	\$0.50B	\$4.90B
Lower Churchill Hydro Generation	\$3.40B	\$0.70B	\$0.50B	\$4.60B
Voisey's Bay Underground Mine	\$1.20B	\$0.50B	\$0.20B	\$1.90B
West White Rose Structure	\$1.10B	\$0.60B	\$0.20B	\$1.90B
Total	\$10.08B	\$4.20B	\$1.60B	\$16.25B

*Note: Impacts for Long Harbour & Voisey's Bay calculated using average multiplier with total costs as annual costs were unavailable.
Source: Input Output Model Statistics Canada's NL construction multiplier (Table 36-10-0595-01); TradesNL*

NL Mega Projects – Job Impacts

Project	Direct	Indirect	Induced	Total
Hibernia Gravity Based Structure	N/A	N/A	N/A	N/A
Terra Nova FPSO	2,200	10,300	N/A	12,500
Sea Rose FPSO	N/A	N/A	N/A	8,100
Long Harbour Hydromet Plant	19,200	5,800	5,500	30,500
Hebron Gravity Based Structure	36,400	19,800	11,300	67,500
Lower Churchill Hydro Generation	38,900	9,700	10,500	59,100
Voisey's Bay Underground Mine	12,000	5,000	4,000	21,000
West White Rose Structure	15,600	7,200	3,900	26,700
Total	124,300	57,800	35,200	225,400

Note: Impacts for Long Harbour & Voisey's Bay calculated using average multiplier with total costs as annual costs were unavailable.

Source: Input Output Model Statistics Canada's NL construction multiplier (Table 36-10-0595-01); TradesNL

Mechanical Projects Vs. Civil Projects



Hydro Generation Project

Hydro Generation construction is a heavy civil project.

Requires more:

- Heavy equipment operators 
- Industrial electricians 
- Labourers 

FPSO Project

FPSO construction is a heavy mechanical project. **Requires more:**

- Insulators 
- Pipefitters 
- Welders 
- Iron Workers 



Wage Rates: Select Countries

Hourly labour costs in US\$ converted to 2021

Norway (2024): \$63.03

Italy (2024) \$44.28

Ireland (2024) \$43.86

USA (2023) \$43.11

Canada (2023) \$37.24

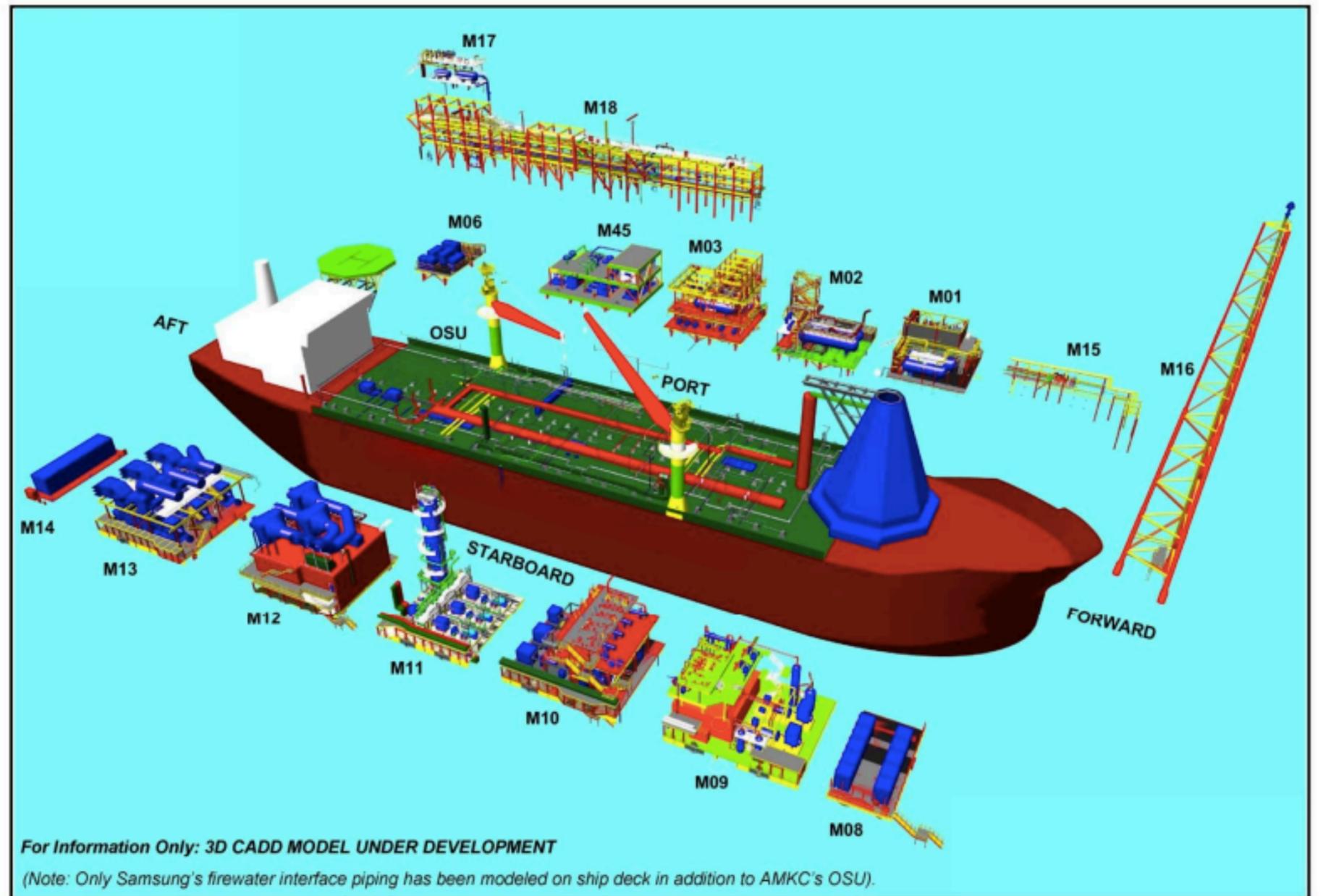
Singapore (2022) \$34.94

UK (2016) \$29.04

Brazil (2020) \$6.31

Source: International Labour Organization, UN Statistics on wages - ILOSTAT

Topside Design FPSO



PDS Model current as of Wednesday, 2002-Oct-30



**Construction
Employment in
Newfoundland &
Labrador**



**Benchmarks:
Local employment
measured &
maximized**

NL EMPLOYMENT:

Oil & Gas

Terra Nova
FPSO



Sea Rose
FPSO



Hydro Development

Lower
Churchill
Hydro
Generation

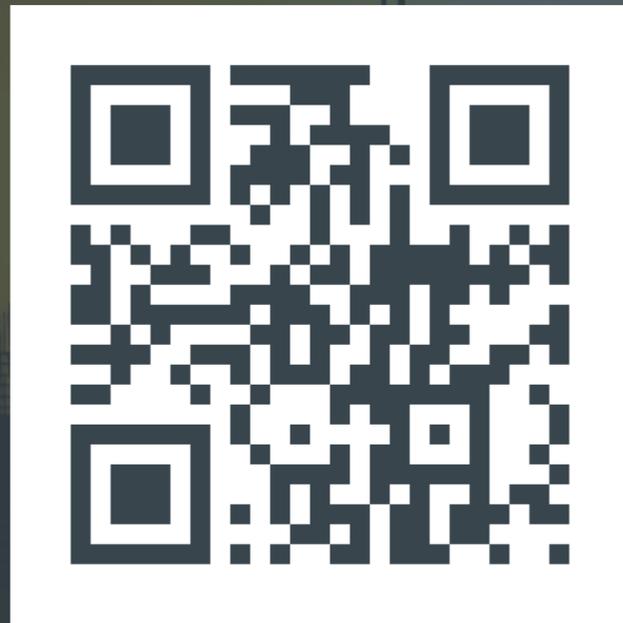


Position of Trades NL



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Thank You



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