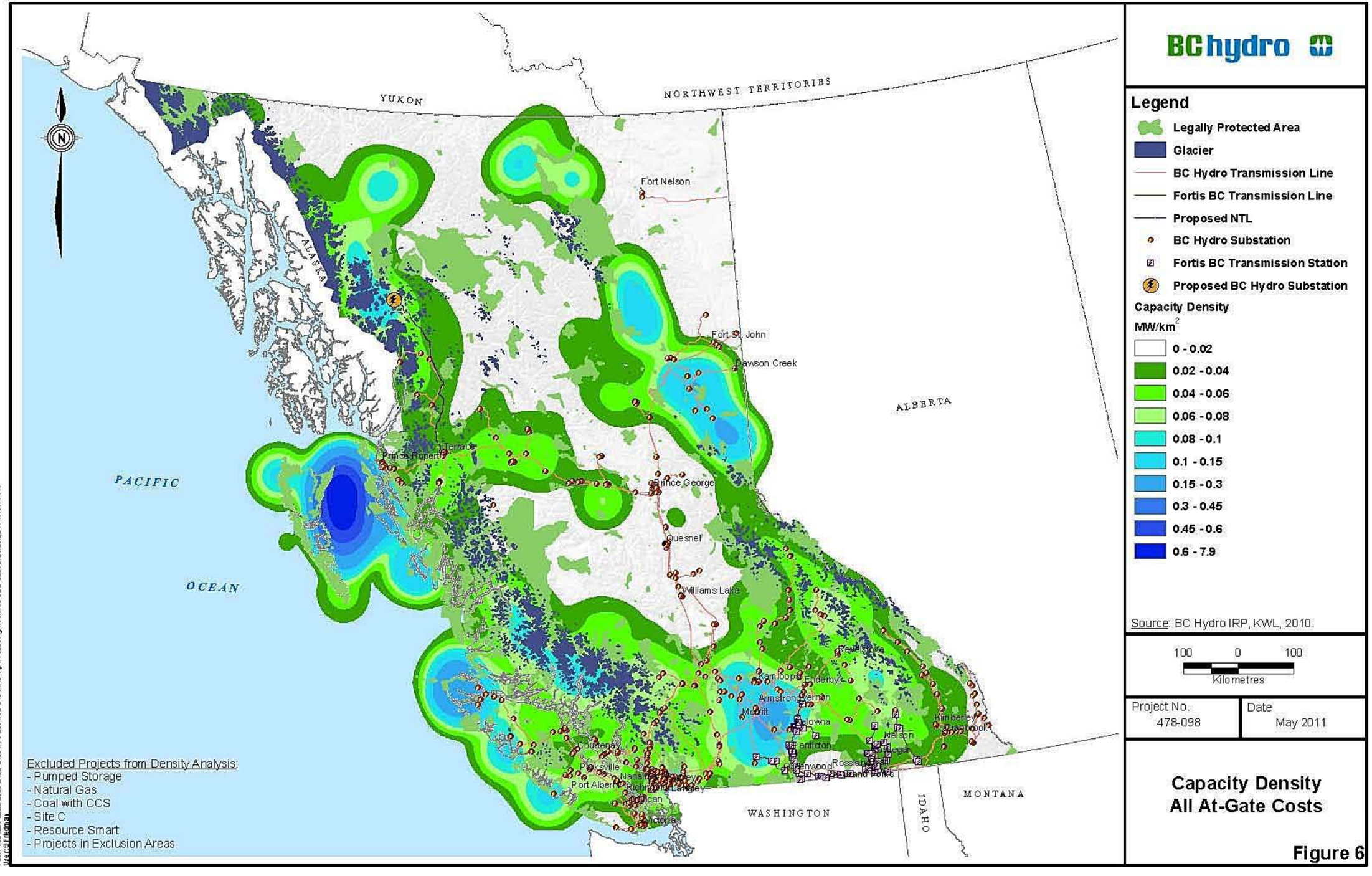
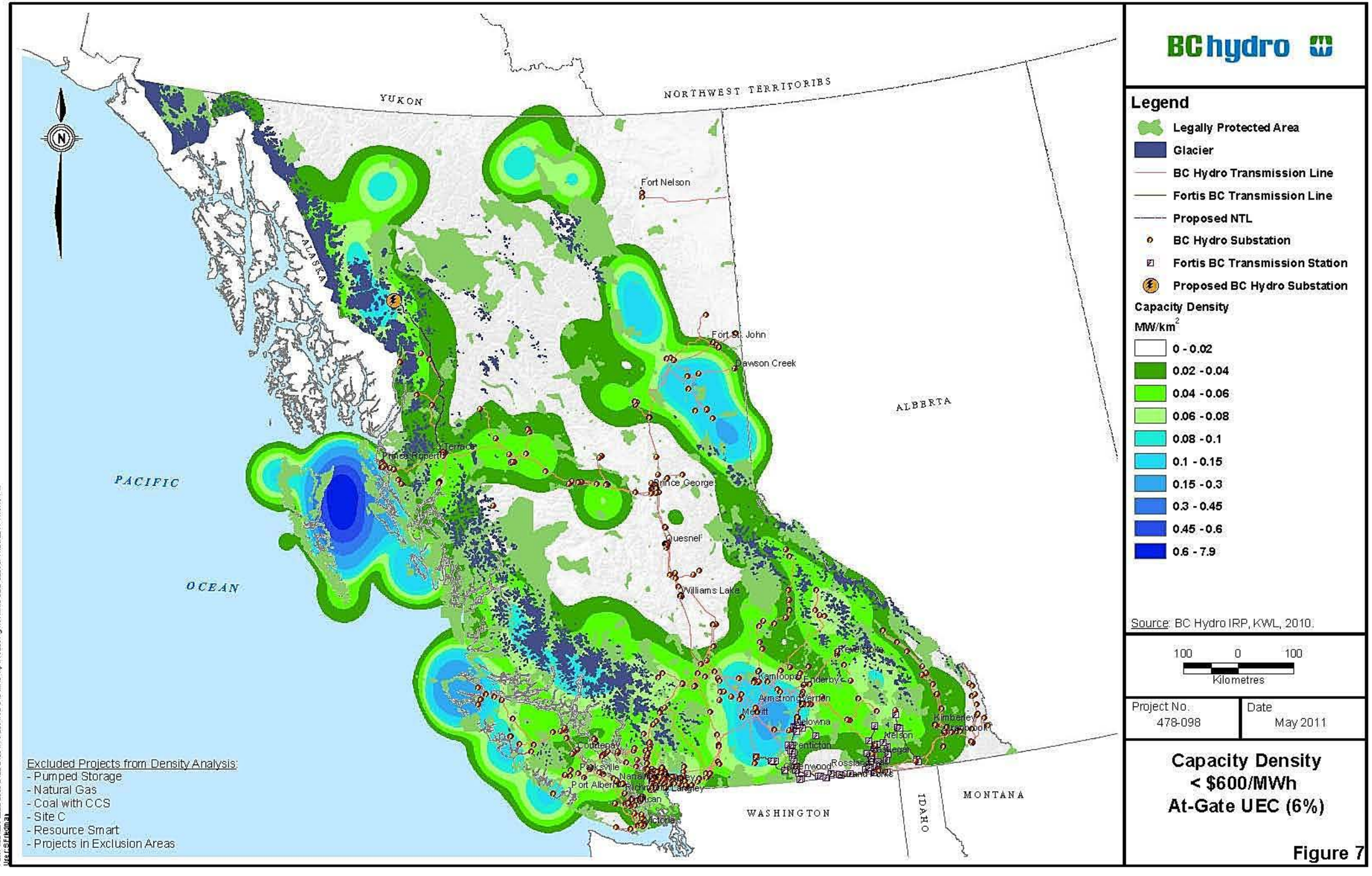
BC hydro

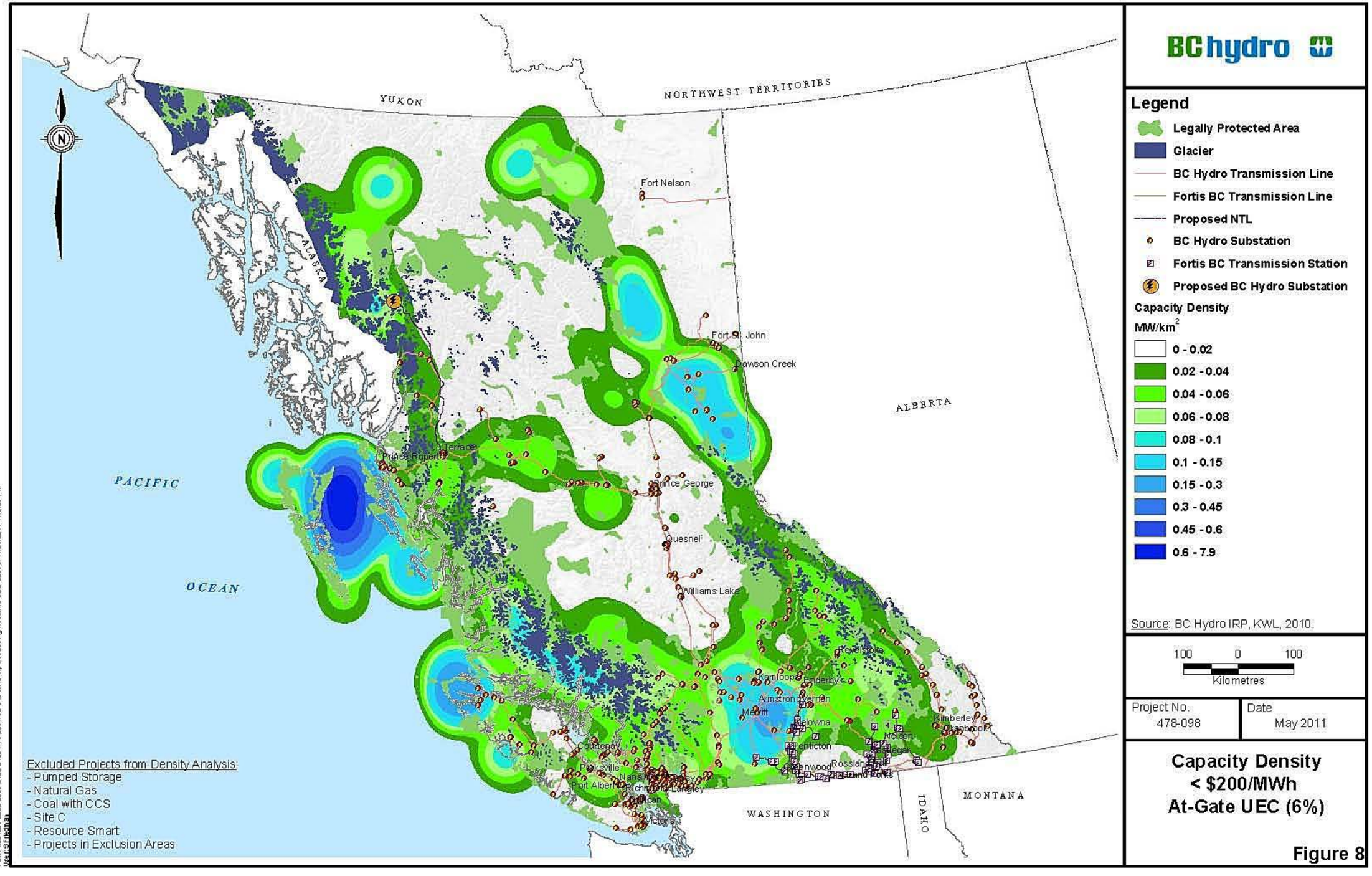
Integrated Resource Plan

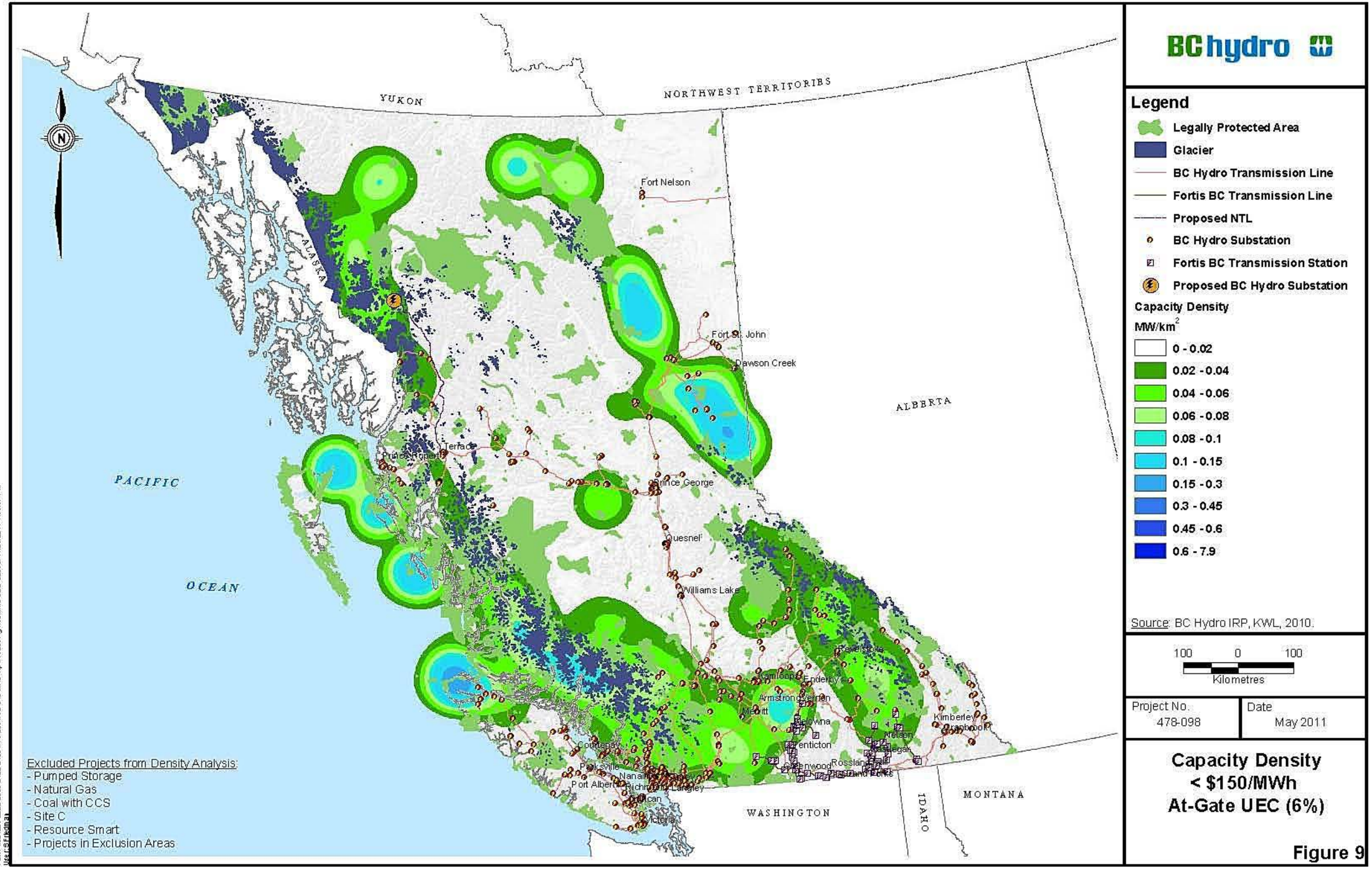
Appendix 6D-3

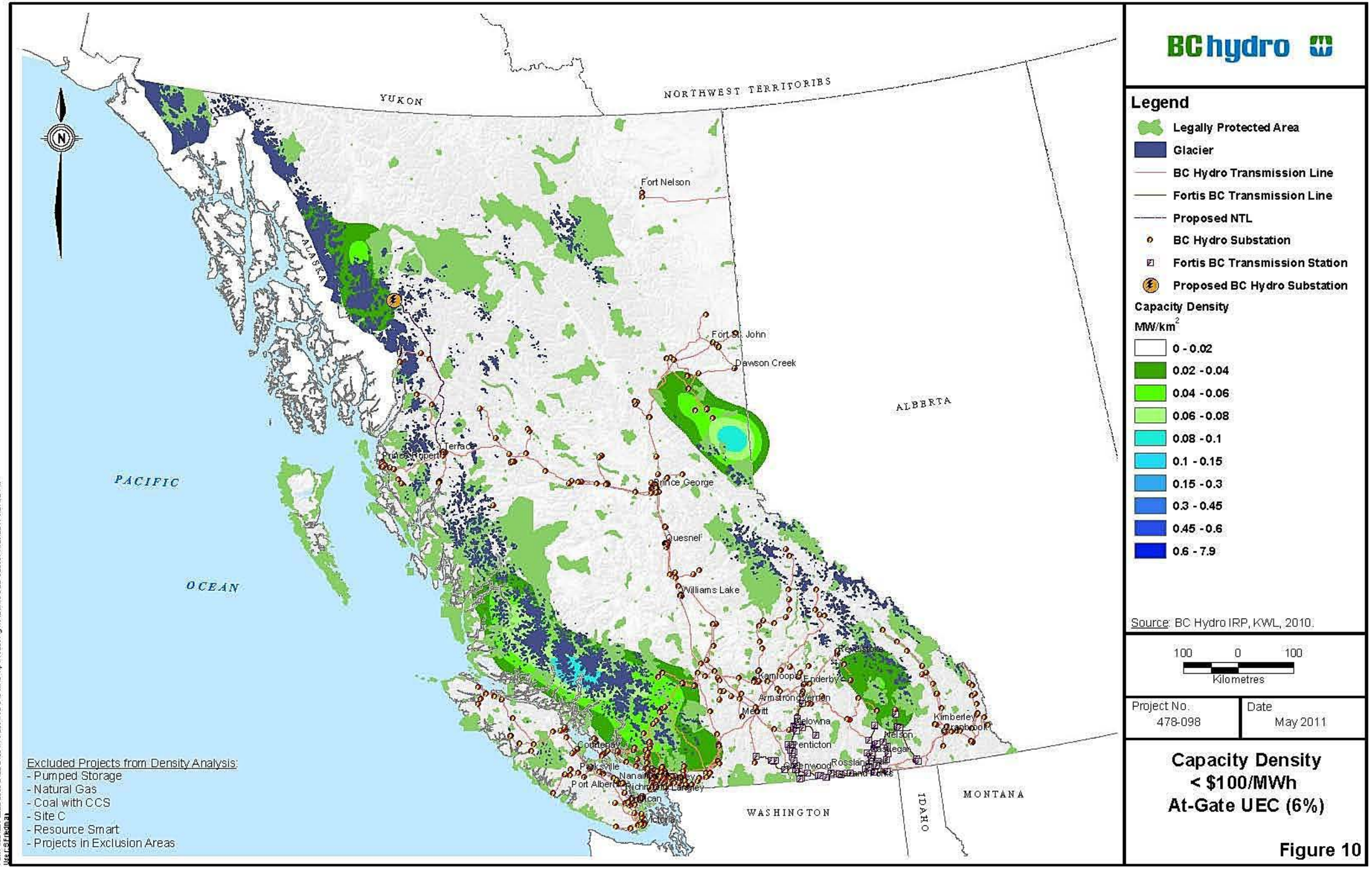
Cluster Analysis Summary
Capacity Density


BC hydro
Legend
Legally Protected Area
Glacier
BC Hydro Transmission Line
Fortis BC Transmission Line
Proposed NTL
BC Hydro Substation
Fortis BC Transmission Station
Proposed BC Hydro Substation
Capacity Density
MW/km2
0 - 0.02
0.02 - 0.04
0.04 - 0.06
0.06 - 0.08
0.08 - 0.1
0.1 - 0.15
0.15 - 0.3
0.3 - 0.45
0.45 - 0.6
0.6 - 7.9
Source: BC Hydro IRP, KWL, 2010.
100 0 100
Kilometres
Project No. 478-098
Date May 2011
Capacity Density
All At-Gate Costs
Figure 6
YUKON
NORTHWEST TERRITORIES
ALBERTA
ALASKA
PACIFIC
OCEAN
WASHINGTON
IDAHO
MONTANA
Fort Nelson
Fort St. John
Dawson Creek
Prince Rupert
Terrace
Prince George
Quesnel
Williams Lake
Kamloops
Enderby
Revelstoke
Armstrong
Vernon
Merritt
Kelowna
Penticton
Nelson
Kimberley
Cranbrook
Courtenay
Parksville
Port Alberni
Nanaimo
Richmond
Langley
Victoria
Rossland
Excluded Projects from Density Analysis:
- Pumped Storage
- Natural Gas
- Coal with CCS
- Site C
- Resource Smart
- Projects in Exclusion Areas


BC hydro
Legend
Legally Protected Area
Glacier
BC Hydro Transmission Line
Fortis BC Transmission Line
Proposed NTL
BC Hydro Substation
Fortis BC Transmission Station
Proposed BC Hydro Substation
Capacity Density
MW/km2
0 - 0.02
0.02 - 0.04
0.04 - 0.06
0.06 - 0.08
0.08 - 0.1
0.1 - 0.15
0.15 - 0.3
0.3 - 0.45
0.45 - 0.6
0.6 - 7.9
Source: BC Hydro IRP, KWL, 2010.
100 0 100
Kilometres
Project No. 478-098
Date May 2011
Capacity Density
< $600/MWh
At-Gate UEC (6%)
Figure 7
YUKON
NORTHWEST TERRITORIES
ALBERTA
ALASKA
PACIFIC
OCEAN
WASHINGTON
IDAHO
MONTANA
Fort Nelson
Fort St. John
Dawson Creek
Prince Rupert
Terrace
Prince George
Quesnel
Williams Lake
Kamloops
Enderby
Revelstoke
Armstrong
Vernon
Merritt
Kelowna
Penticton
Nelson
Kimberley
Cranbrook
Castlegar
Rossland
Greenwood
Courtenay
Parksville
Nanaimo
Port Alberni
Richmond
Langley
Duncan
Victoria
Excluded Projects from Density Analysis:
- Pumped Storage
- Natural Gas
- Coal with CCS
- Site C
- Resource Smart
- Projects in Exclusion Areas


BC hydro
Legend
Legally Protected Area
Glacier
BC Hydro Transmission Line
Fortis BC Transmission Line
Proposed NTL
BC Hydro Substation
Fortis BC Transmission Station
Proposed BC Hydro Substation
Capacity Density
MW/km2
0 - 0.02
0.02 - 0.04
0.04 - 0.06
0.06 - 0.08
0.08 - 0.1
0.1 - 0.15
0.15 - 0.3
0.3 - 0.45
0.45 - 0.6
0.6 - 7.9
Source: BC Hydro IRP, KWL, 2010.
100 0 100
Kilometres
Project No. 478-098
Date May 2011
Capacity Density
< $200/MWh
At-Gate UEC (6%)
Figure 8
YUKON
NORTHWEST TERRITORIES
ALBERTA
ALASKA
PACIFIC
OCEAN
WASHINGTON
IDAHO
MONTANA
Fort Nelson
Fort St. John
Dawson Creek
Prince Rupert
Terrace
Prince George
Quesnel
Williams Lake
Kamloops
Enderby
Revelstoke
Armstrong
Vernon
Merritt
Kelowna
Penticton
Nelson
Castlegar
Kimberley
Cranbrook
Rossland
Trail
Grand Forks
Keremeos
Cranbrook
Cowichan
Victoria
Langley
Port Alberni
Nanaimo
Parksville
Courtenay
Excluded Projects from Density Analysis:
- Pumped Storage
- Natural Gas
- Coal with CCS
- Site C
- Resource Smart
- Projects in Exclusion Areas


BC hydro
Legend
Legally Protected Area
Glacier
BC Hydro Transmission Line
Fortis BC Transmission Line
Proposed NTL
BC Hydro Substation
Fortis BC Transmission Station
Proposed BC Hydro Substation
Capacity Density
MW/km2
0 - 0.02
0.02 - 0.04
0.04 - 0.06
0.06 - 0.08
0.08 - 0.1
0.1 - 0.15
0.15 - 0.3
0.3 - 0.45
0.45 - 0.6
0.6 - 7.9
Source: BC Hydro IRP, KWL, 2010.
100 0 100
Kilometres
Project No.
478-098
Date
May 2011
Capacity Density
< $150/MWh
At-Gate UEC (6%)
Figure 9
YUKON
NORTHWEST TERRITORIES
ALASKA
ALBERTA
PACIFIC
OCEAN
WASHINGTON
IDAHO
MONTANA
Fort Nelson
Fort St. John
Dawson Creek
Prince Rupert
Terrace
Prince George
Quesnel
Williams Lake
Kamloops
Enderby
Revelstoke
Armstrong
Vernon
Merritt
Kelowna
Penticton
Nelson
Castlegar
Kimberley
Cranbrook
Rossland
Trail
Greenwood
Courtenay
Parksville
Nanaimo
Port Alberni
Richmond
Langley
Duncan
Victoria
Excluded Projects from Density Analysis:
- Pumped Storage
- Natural Gas
- Coal with CCS
- Site C
- Resource Smart
- Projects in Exclusion Areas


BC hydro
Legend
Legally Protected Area
Glacier
BC Hydro Transmission Line
Fortis BC Transmission Line
Proposed NTL
BC Hydro Substation
Fortis BC Transmission Station
Proposed BC Hydro Substation
Capacity Density
MW/km2
0 - 0.02
0.02 - 0.04
0.04 - 0.06
0.06 - 0.08
0.08 - 0.1
0.1 - 0.15
0.15 - 0.3
0.3 - 0.45
0.45 - 0.6
0.6 - 7.9
Source: BC Hydro IRP, KWL, 2010.
100 0 100
Kilometres
Project No.
478-098
Date
May 2011
Capacity Density
< $100/MWh
At-Gate UEC (6%)
Figure 10
YUKON
NORTHWEST TERRITORIES
ALASKA
ALBERTA
PACIFIC
OCEAN
WASHINGTON
IDAHO
MONTANA
Fort Nelson
Fort St. John
Dawson Creek
Prince Rupert
Terrace
Prince George
Quesnel
Williams Lake
Kamloops
Enderby
Armstrong
Vernon
Merritt
Kelowna
Penticton
Nelson
Castlegar
Kimberley
Cranbrook
Courtenay
Parksville
Nanaimo
Port Alberni
Richmond
Langley
Duncan
Victoria
Rossland
Greenwood
Excluded Projects from Density Analysis:
- Pumped Storage
- Natural Gas
- Coal with CCS
- Site C
- Resource Smart
- Projects in Exclusion Areas