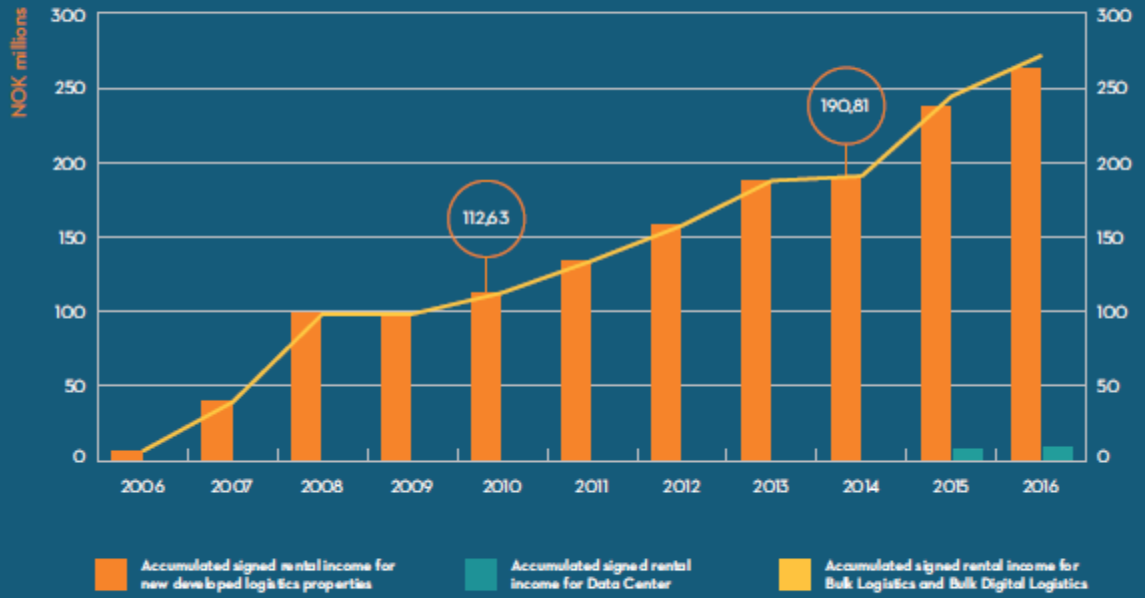
Carrier Roundtable
OSLO 2017
bulk
join the race

Agenda

1. Introducing Bulk Infrastructure
2. Oslo Internet Exchange (OS-IX)
3. N01 Campus
4. Bulk Networks
5. Electric City Agder

Logistics

Accumulated signed rental income for Bulk Logistics and Bulk Digital logistics 2006-2016



QUICK FACTS

45 PEOPLE

34% IRR

4,094,000,000 NOK
LOGISTICS BUILDINGS BUILT AND SOLD

10 YEARS

Racing to bring sustainable infrastructure to a global audience

DIGITAL LOGISTICS 2016

A year of transition

NO1 CAMPUS
CLEANING UP THE CLOUD

OS-IX
oslo internet exchange

- 310 hectares green data center campus
- 2 x 25 MW substations on renewable energy installed
- Low latency to Europe
- Oslo data center of 25,000 m²
- 14.4 MW new energy center on renewable energy
- International Carrier hotel and modern colocation facilities

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Oslo Internet Exchange

Hønefoss
Lillestrøm
Sala
Uppsala
Leirvik
Drøbak
Askim
Arvika
Köping
Västerås
Enköping
Haugesund
Moss
Karlstad
Karlskoga
Arboga
Eskilstuna
Sollentuna
Kopervik
Horten
Tønsberg
Fredrikstad
Kristinehamn
Örebro
Stockholm
Sandefjord
Halden
Säffle
Ämål
Kumla
Södertälje
Stavanger
Larvik
Katrineholm
Sandnes
Kragerø
Bryne
Mariestad
Finspång
Nyköping
Norrköping
Motala
Egersund
Arendal
Lidköping
Linköping
Söderköping
Grimstad
Uddevalla
Vänersborg
Skara
Skövde
Trollhättan
Mjölby
Falköping
Stenungsund
Tranås
Alingsås
Kungälv
Skagen
Göteborg
Borås
Jönköping
Huskvarna
Västervik
Mölndal
Nässjö
Eksjö
Vimmerby
Hjørring
Frederikshavn
Kungsbacka
Sävsjö
Vetlanda
Oskarshamn
Brønderslev
Värnamo
Aalborg
Varberg
Thisted
Falkenberg
Växjö
Ljungby
Nybro
Aars
Kalmar
Skive
Halmstad
Randers
Grenå
Struer
Holstebro
Ängelholm
Ronneby
Herning
Aarhus
Ringkøbing
Helsingborg
Kristianstad
Karlshamn
Karlskrona
Hillerød
Grindsted
Landskrona
Kalundborg
København
Lund
Varde
Danmark
(Denmark)
Roskilde
Malmö
Esbjerg
Odense
Slagelse
Køge
Trelleborg
Ystad
Næstved
Svendborg
Rønne
Leck
Flensburg
Łeba
bulk
high performance future

Oslo Internet Exchange (OS-IX)

- Opening a Carrier Hotel in October 2017
- Dedicated Network Exchange with Metro – National – Regional – Interregional – International operators
- Public Internet Exchange (IXP) and Private Interconnect (PI) facility
- Portal based automated provisioning service
- Virtual Point of Presence (VPOP) in N01 Campus for extended cross connect (public and private)

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NO1 CAMPUS

CLEANING UP THE CLOUD

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N01 Campus

- 100 MW dual power availability
- Opening a 2.5 MW data center module 2017
- Dedicated Network Exchange with Metro – National – Regional – Interregional – International operators
- Public Internet Exchange (IXP) and Private Interconnect (PI) facility
- Portal based automated provisioning service
- Virtual Point of Presence (VPOP) for extended cross connect to major European IXPs
- Cable Landing Stations (CLS) for international Subsea cables

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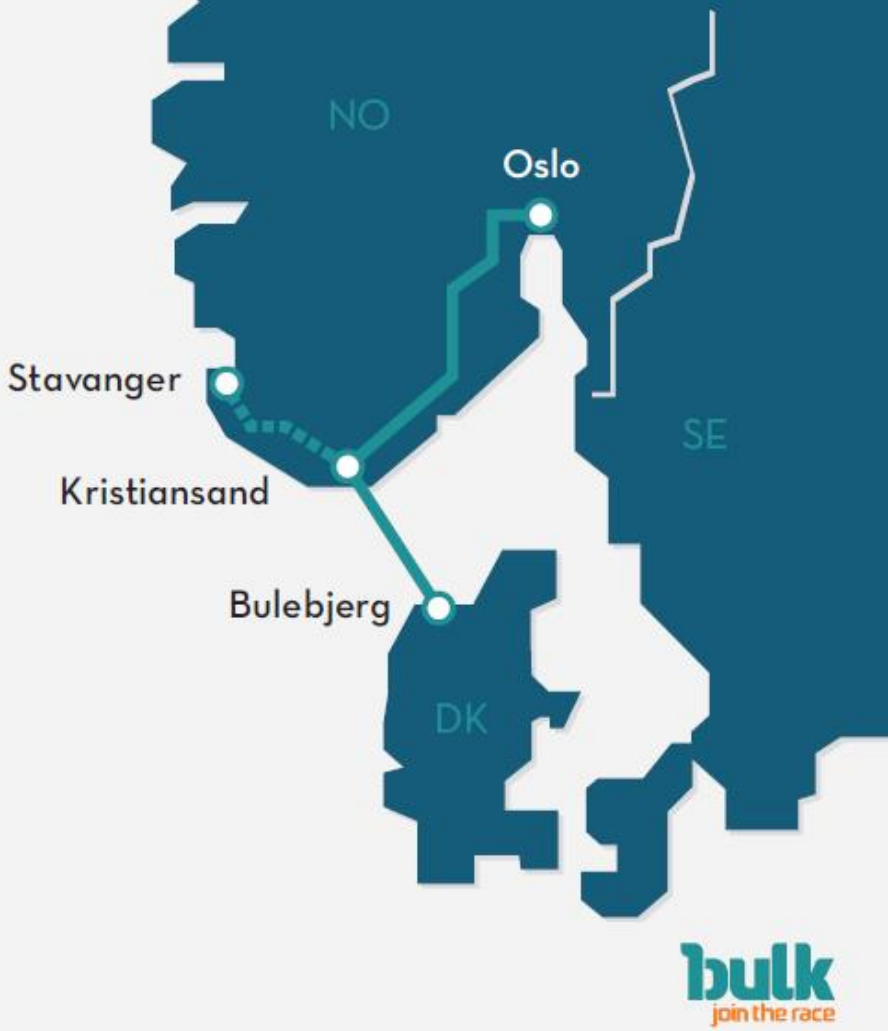
BULK NETWORKS



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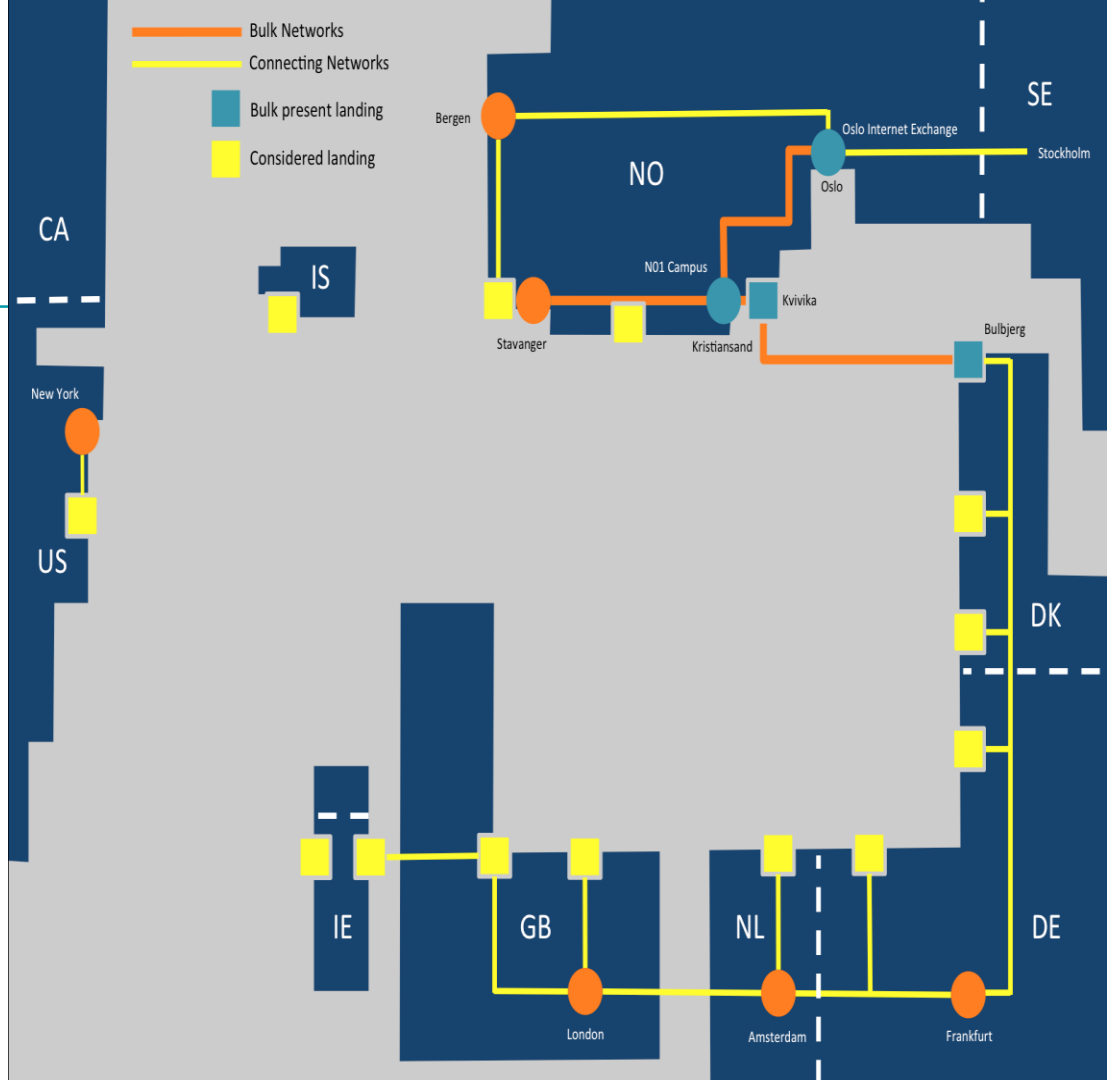
Bulk Network connectivity

- ✓ Phase 1 – Multiple dark fiber in Norway
- ✓ Phase 2 – Subsea cable Denmark
- Phase 3 – Capacity to major European IXPs
- Phase 4 – Co-building multiple subsea cable networks
- Phase 5 – expanding dark fiber in Norway

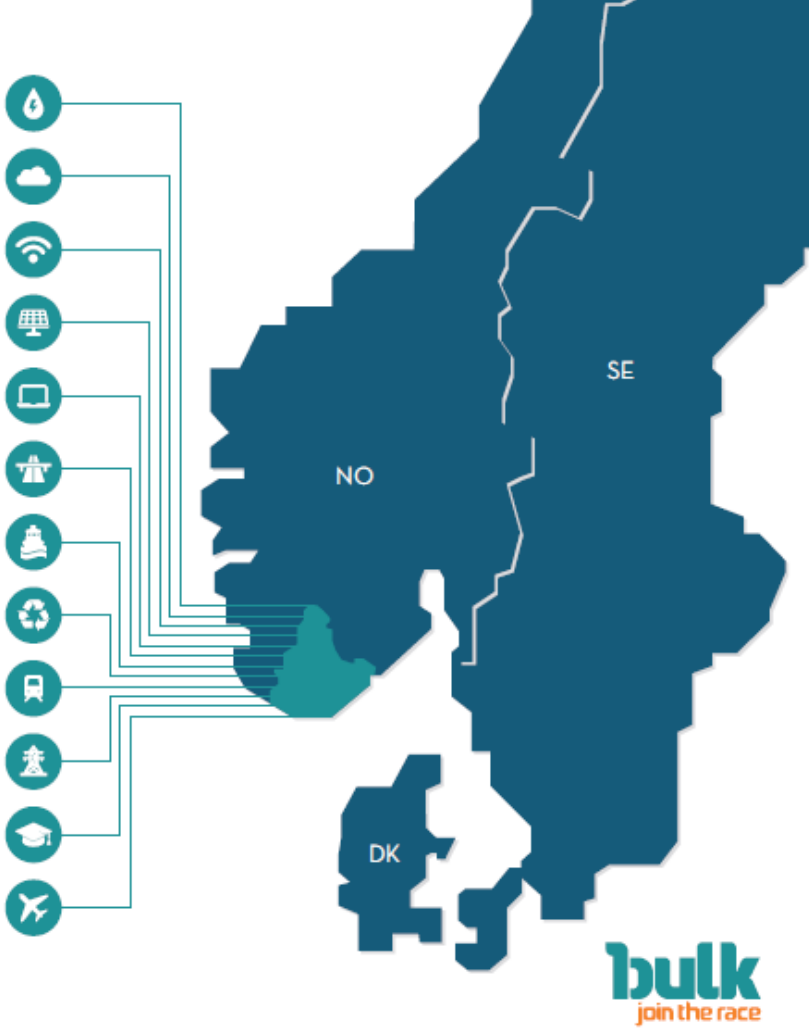


ELECTRIC CITY AGDER

Why Electric City Agder?

Agder satisfies all requirements for establishing a data center:

- Renewable energy
- Surplus of hydroelectric energy
- Cool and stable climate
- Easy access to important infrastructure like ports, railways, international airports, roads
- University
- Predictable political framework
- Low electricity spot price



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