



The World's Carbon Markets: A Case Study Guide to Emissions Trading

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Brief History and Key Dates:

Norway has been engaged in the fight against climate change since the 1980s. The country's current climate policy framework is rooted in the United Nations Framework Convention on Climate Change (UNFCCC) and Kyoto Protocol (KP) objectives. Norway's KP pledge was to reduce its greenhouse gas (GHG) emissions to no more than 1% above its 1990 levels for 2008-2012. ¹ According to Point Carbon (2013), in 2012 Norway emitted 52.9 million tons of carbon dioxide equivalent (MtCO₂e) not including sinks, up 5.1% from 1990 levels; so, the Norwegian government purchased 21.5 million United Nations (U.N.) offsets to outperform its KP target.² Norwegian 2005 gross GHG emissions were 54.15 MtCO₂e, an increase of 9% from 1990 levels. However, when the country's large GHG sinks from forestry are included, net 2005 GHG emissions were an estimated 26.8 MtCO₂e.³

At present, Norwegian GHG mitigation policies include a CO₂ tax, the Pollution Control Act, the Petroleum Act, and the Greenhouse Gas Emissions Trading Act (GGETA). The GGETA outlines the country's emissions trading system (ETS) which became active on January 1 2005. These measures combined cover more than 70% of Norwegian domestic GHGs.⁴

Momentum for emissions trading in Norway dates back to 2000-2001 when the Norwegian government's white paper No. 54 *Norwegian Climate Policy* stated that an ETS would be a central measure towards achieving Norway's Kyoto Protocol commitment.⁵ According to the GGETA, "the purpose of this Act is to limit emissions of greenhouse gases in a cost-effective manner."

The Norwegian ETS was designed to be compatible with the European Union (EU) ETS, and many of the features of the two programs are similar. Like the EU ETS, the Norwegian ETS is split into three phases: Phase I (2005-2007), Phase II (2008-2012), and Phase III (2013-2020). The Norwegian ETS was amended in June 2007 and February 2009 to bring its program features in line with Directive 2003/87/EC and thereby facilitate compatibility with the EU ETS during the Kyoto commitment period (Phase II, 2008-2012). The two programs officially linked at the beginning of Phase II, and were fully harmonized by the start of Phase III.⁷ For perspective, the EU ETS cap for 2008-2012 is 2,083 MtCO₂e/year⁹ and the Norwegian cap for these years is 15 MtCO₂e/year⁹; so, the EU ETS covers almost 140 times as many emissions as does the Norwegian ETS.

Summary of Key Policy Features:

CAP/TARGET: In *Phase I* (2005-2007) of the Norwegian ETS, the *cap* for covered entities was 6.57 MtCO₂e/year.¹⁰ More sectors were included in *Phase II* (2008-12) and the cap for covered entities became 15 MtCO₂e/year, representing a 17% decline relative to 2005 levels (18 Mt) and a 30% decrease relative to projected

2010 levels (21 Mt).¹¹ This annual emissions limit implies that the Norwegian ETS was designed to contribute approximately two-thirds of the emissions reductions required for Norway to achieve its Kyoto pledge.¹² As stated above, Norway's *Kyoto Protocol commitment* was to reduce emissions to 1% *above 1990 levels for 2008-2012*; an ambition that was later bolstered by a voluntary pledge to reduce emissions to 9% below 1990 levels for 2008-2012.¹³ According to Point Carbon (2013), Norway's 2012 non-sink emissions were 52.9 MtCO₂e, up 5.1% from 1990 levels; so, the Norwegian government purchased 21.5 million United Nations offsets to outperform its KP target, and the country's voluntary pledge has not yet been met.¹⁴ By **2020**, Norway aims, as its *Copenhagen Accord pledge*, to reduce its GHG emissions by 30% relative to 1990 levels, and by 40% if there is an international agreement.¹⁵ As a result, Norway plans to reduce its GHG emissions by 15-17 MtCO₂e relative to business-as-usual (BAU) by 2020, and two-thirds of these cuts are to take place domestically. By **2050**, Norway's emissions goal is 100% GHG reductions relative to 1990 levels with the possibility of moving this target forward to 2030 if an ambitious international agreement is passed.¹⁶

SCOPE/COVERAGE: In *Phase I* (2005-2007), the Norwegian ETS did not cover any sectors that were subject to the country's CO₂ tax (see the "Complementary and Supplementary Measures" section for information about Norway's CO₂ tax). Therefore, the ETS only covered *51 entities and 6.1 MtCO₂e*, which equates to *11% of total 2005 GHG emissions*.¹⁷ As part of June 2007 amendments, sectors that were subject to the CO₂ tax were added to the Norwegian ETS in order to improve its compatibility with the EU ETS. As a result, beginning in *Phase II* (2008-2012) the Norwegian ETS covered *more than 100 entities and 40% of the country's projected GHG emissions*.¹⁸

The Norwegian ETS applies to the following energy and industrial **sectors**: energy production; refining of mineral oil; coke production; production and processing of iron and steel, including roasting and sintering of iron ore; production of cement, lime, glass, glass fiber, and ceramic products; and production of paper, board, and pulp from timber or other fibrous materials. The transport sector is not included under the ETS, nor is combustion from biomass, hazardous waste, or municipal waste. ¹⁹ Close to 80% of all covered GHG emissions in Norway derive from combustion of fossil fuels. Petroleum combustion—oil and gas extraction, gas processing plants, and the petrochemical industry—was added to the Norwegian ETS in 2008 (as a result of the 2007 amendments mentioned above) and is now responsible for 60% of all emissions covered. Offshore installations and the wood processing industry were also added in Phase II (also due to the 2007 amendments). ²⁰

 CO_2 was the only $\it GHG$ covered by the Norwegian ETS in Phase I. In Phase II, Nitrous Oxide (N₂O) was added and Norway annually emits 2 MtCO₂e of N₂O, which amounts to 4% of the country's GHG emissions. Non-CO₂ emissions from aluminum and ferroalloys may be covered in Phase III.²¹

AUCTION OVERVIEW: In **Phase II**, allowances corresponding to 7.4 MtCO₂e/year (**almost 50**% of the 15 MtCO₂e/year total cap) have been sold at auctions or through other market mechanisms.²² Beginning in **Phase III**, entities will be required to obtain **100**% of emissions allowances via auctions or secondary markets.²³

ALLOWANCE DISTRIBUTION: In **Phase I** (2005-2007) 95% of allowances were **freely distributed** while in **Phase II**, free distribution was lowered to 39%.²⁴ However certain sectors, such as offshore oil and gas production, which comprise 64% of all Phase II capped emissions, received no free allocation. By contrast, land-based industries received free allowances corresponding to 92% of annual average emissions from the period 1998-2001; 100% of annual average 1998-2001 process emissions were covered by allowances that were freely allocated, and 87% of energy-related emissions were covered via free distribution. The volume of freely allocated allowances in Phase II is estimated at 5.8 MtCO₂e/year. Approximately 50% of allowances for N₂O emissions from industrial processes—estimated to be 0.75 MtCO₂e/year—were distributed freely based on 1998-2001 average annual emissions.²⁵ Entities eligible for free allocation received approximately 80-83% of expected emissions free of charge.²⁶ The Pollution Control Authorities, the governing body that is also in charge of issuing allowances, made these decisions about free

distribution. ²⁷ According to the original ETS Act, no land-based industries that were established after 2001 would receive any free allowances. A later amendment stipulated that industries established prior to the beginning of 2008 could receive free allowances. ²⁸ During Phase III, free allocation will be determined based on an industry benchmark of GHG performance, with sector specific provisions for manufacturing industries and those sectors facing international competition. ²⁹

In order to link with the EU ETS, Norway was required to submit a *National Allocation Plan* (NAP) for Phase II. The NAP set the framework for allowance allocation and had to be approved by the European Free Trade Association (EFTA) Surveillance Authority (ESA) before Norwegian entities were officially allowed to transfer allowances from their accounts to accounts in the EU ETS.³⁰

Because allowance distribution is determined by a 1998-2001 base period, entities that took emissions reduction action after this base period but before Phase I (2005-2007) benefitted in the system by being distributed more allowances, based on emissions levels in previous years, rather than on their current-year emissions.³¹

FLEXIBILITY PROVISIONS: The Norwegian ETS and EU ETS have similar designs, and these similarities manifest themselves for many of their flexibility guidelines. *Banking* of allowances was not allowed between Phase I and Phase II, but unlimited carry over of allowances was permitted within Phase I and between Phase II and Phase III. There is effectively year-ahead *borrowing* within trading periods, but no further borrowing is allowed.³²

Regarding *offsets*, up to 3 MtCO₂e/year, or **20% of the annual total quantity of allowances**, may derive from Certified Emission Reductions *(CERs)* and Emission Reduction Units *(ERUs)* in Phase II. The maximum quantity of CERs and ERUs that an individual entity is allowed to submit corresponds to **13% of emissions from the previous year**, with the resulting cumulative quantity of CERs and ERUs from all covered entities being less than 3 MtCO₂e. This ceiling may be increased/decreased if usage of CERs and ERUs in early years is less/greater than expected in absolute terms. As is the case with the EU ETS, offsets from nuclear activity, carbon sinks, and large-scale hydro power plants are not permitted within the Norwegian ETS.³³ In addition, in May 2013, Norway committed to stop buying offsets generated by wind and hydro projects, opting instead to purchase offsets from schemes at risk of folding due to low carbon prices.³⁴ In September 2013, the Norwegian government agreed to extend purchase of offset credits into the second commitment period of the Kyoto Protocol (2013-2020). The government and the Nordic Environment Finance Corporation (NEFCO) signed a contract to procure up to 30 million credits from UN-approved projects that are in danger of cancellation due to low carbon prices.³⁵

When the *EU ETS expanded to include Norway*, Iceland, and Liechtenstein on 26 October 2007, it "highlighted that for nations or regions to join the EU's program, their emissions trading systems must be mandatory, set absolute limits on emissions, have robust registry systems, and have strict monitoring and compliance measures in place." Of the countries that joined the EU ETS in October 2007, Norway linked with the EU ETS because it already had an ETS of its own. The Norwegian ETS was designed to be compatible with the EU ETS, so many of the features of the two programs are similar. As mentioned earlier, the Norwegian ETS was amended in June 2007 and February 2009 to bring its features in line with Directive 2003/87/EC and thereby facilitate compatibility with the EU ETS during the Kyoto commitment period (Phase II, 2008-2012). The two programs officially linked in Phase III, and they are fully harmonized in Phase III.38

In Phase I, the Norwegian ETS included a one-way *linkage* with the EU ETS; Norwegian entities could purchase EU allowances for compliance, but EU entities could not purchase Norwegian allowances.³⁹ A bilateral linkage with the EU ETS was established in early 2009 when Norway's revised national allocation plan, a document it was forced to craft as a member of the EU ETS,⁴⁰ was accepted by the European Commission. Since then, necessary amendments have been made to the Greenhouse Gas Emissions Trading Act (GGETA), and the Norwegian ETS has been linked with a few mutually accepted adaptations. For Phase II of the EU ETS, auctions are capped at 10% of overall

allowances; however, in the Norwegian ETS during the same phase almost 50% of allowance distribution is auctioned.⁴¹ In addition, Norway has kept the right to withdraw from the Kyoto Protocol and/or buy allowances to comply with its Kyoto commitment.⁴² If Norway is at risk of falling short of its strengthened Kyoto commitment of 9% below 1990 levels for 2008-2012 through domestic reductions, the government also has the option to purchase Kyoto-eligible units.⁴³

The 2005 GGETA establishes an *allowance set-aside* that is reserved for new gas fired power plants that use carbon capture and storage (CCS) technology, as well as for licensed high-efficiency combined heat and power plants. The total size of the allowance set-aside for Phase II is 9 MtCO₂e, or 1.8 MtCO₂e/year.⁴⁴ In a later amendment, the allowance set-aside for new gas fired power plants that use CCS was removed from the system. Further, new entrants—those entering the system after January 1, 2008—cannot receive free allowances from the allowance set-aside, unless they are "highly efficient combined heat [or] power plants."⁴⁵

MARKET REGULATION AND OVERSIGHT: As enumerated in the GGETA, the Norwegian Emissions Trading **Registry** "shall contain information on the allocation, issue, holding, transfer, surrender and cancellation of allowances." Any entity or individual is allowed to open an account within the Registry and account holders may transfer allowances to other account holders.⁴⁶

By March 1 each year, covered entities must *report* their emissions for the previous year to the Pollution Control Authorities who *verify* these submitted reports. By May 1 each year, entities covered by the ETS must submit allowances corresponding to their emissions from the previous calendar year. Registry information is available to public authorities.⁴⁷

If an installation's reporting is not complete by April 1 of a given year, its privileges to trade within the Registry are temporarily suspended. Further reporting failure may result in a **state fine** that must be paid for as long as unlawful behavior continues to persist. Failure to perform other mandatory duties may also result in the installation being fined. For example, in Phase II the **fine for excess emissions** is EU\$ 100/tCO₂e. In addition, the names of entities that fail to comply with their obligations are publicly published as a **shaming** mechanism⁴⁸ and the following year they must submit additional allowances equivalent to the deficit from the previous year. In Phase I this fine was EU\$ $40/tCO_2e.^{49}$

COMPLEMENTARY AND SUPPLEMENTARY MEASURES: Since 1991, Norway has enforced a *CO₂ tax* on the following *sectors*: gasoline, light and heavy fuel oil, oil and gas in the North Sea, pulp and paper, fishmeal, domestic aviation, and domestic shipping.⁵⁰ In 2005, the tax covered 68% of CO₂ emissions and 50% of GHG emissions. For at least the Kyoto compliance period, the CO₂ tax does not apply to land-based industries covered by the Norwegian ETS are also taxed, but the rate was lowered between 2007 and 2008 in order to compensate for the increased costs due to the emissions trading system. In 2007, the CO₂ tax for offshore petroleum installations was NOK \$0.8/Sm³ (NOK \$340/tCO₂e), which dropped to NOK \$0.45/Sm³ (NOK \$160/tCO₂e)⁵¹ in 2008. In the petroleum and transportation sectors, CO₂ taxes specific to the various activities encompassed by these sectors have been the primary means for CO₂ mitigation.⁵² In 2013, the Norwegian government raised the CO₂ tax on offshore petroleum production by NOK \$200 per tonne. The intention is to reduce the CO₂ tax in the future if allowance prices in the EU ETS rise from the levels when the tax increase was implemented.⁵³

The tax rate varies across sectors. For example, higher rates apply to petroleum-related activities, whereas mineral oils receive lower rates. Some high-energy, trade intensive industries that are exposed to international competition are exempt from the tax.⁵⁴

Enova SF, the Norwegian national energy agency that is owned by the Ministry of Petroleum and Energy, is in charge of promoting Norway's integrated strategy to increase **renewable energy** production and **energy efficiency**. By the end of 2011, Enova's new renewable energy production goal was 18 terawatts per hour (TWh). For 2020, this goal increased to 40 TWh.⁵⁵ For its energy efficiency measures, Enova targets the building, household and industrial sectors.⁵⁶

Other Norwegian climate change measures, as outlined in a 2012-13 White Paper to the Storting, are⁵⁷:

- At least NOK \$3 billion pledged for deforestation reduction in developing countries (see below).
- Facilitating growth in transport demand through cycling, walking and public transportation, as well as tax incentives for more fuel efficient vehicles.
- An action plan for the domestic building sector to reduce emissions by 2020 and phase out oil-fired boilers.
- Encouraging sustainable and increased domestic forestry through conservation efforts, and a ban on felling voung trees
- Contributing to the Green Climate Fund (GCF) for international emissions reductions
- Scaling up research and development on climate change

Specific to Norway's efforts to assist deforestation reduction in developing countries, the Norwegian government launched Norway's International Climate and Forest Initiative (NICFI), which "supports the *development of the REDD*+ international agenda and architecture," in 2008. NICFI has received annual pledges up to NOK \$3 billion (USD \$517 million), and it "contributes to several multilateral and bilateral initiatives including the Brazilian Amazon Fund, Congo Basin Forest Fund, Forest Carbon Partnership Facility, and Forest Investment Program." NICFI has contributed up to USD \$1 billion to the Brazilian Amazon Fund alone.⁵⁸

RESULTS: As with the EU ETS, Phase I of the Norwegian ETS was designed as a pilot phase. The purpose of this phase was to gain experience with functioning procedures and applications, such as the development of a competent registry, allowance allocation, monitoring, reporting, and verification. In this phase, supply exceeded demand and the *market price* fell sharply when this was revealed. The price eventually declined to zero as banking of permits between phases was not permitted.⁵⁹

What Distinguishes This Policy?

UNIQUE ASPECTS:

- 1. Norway is one of the few countries in which a carbon tax and an ETS significantly overlap.
- In the Norwegian ETS, allowance allocation is weighted more heavily towards auctions than in the majority of other emissions trading systems.

CHALLENGES:

Combining a CO₂ tax on the petroleum sector with the European Union Emissions Trading Scheme (EU ETS), without providing multiple price signals for carbon emissions.

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If you have any comments or suggestions for this case study, please do not hesitate to contact lead authors:

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Disclaimer: The authors encourage readers to please contact the EDF and IETA contacts with any corrections, additions, revisions, or any other comments, including any relevant citations. This will be invaluable in strengthening and updating the case studies and ensuring they are as correct and informative as possible.

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- http://icapcarbonaction.com/phocadownload/tokyo conf/icap tokyo conf plenarythree alstadheim.pdf
- 23 Supra, Note 3.
- ²⁴ Of the 15 MtCO₂e cap, approximately 7.4 MtCO₂e of allowances are auctioned, 5.8 MtCO₂e are distributed freely, and 1.8 MtCO₂e are held in a reserve.
 ²⁵ Installations that qualify for free allocation receive allowances corresponding to 354 tCO₂e per GWh of electricity and 180 tCO₂e per GWh of heat. This allocation
- formula is subject to a reduction factor of 0.85.
- 6 Supra, Note 3. ²⁷ Supra, Note 6.
- 28 EFTA Surveillance Authority (February 2009). "EFTA Surveillance Authority Decision." Case No: 62345, Event No: 505862, Dec. No: 100/09/COL. Available at
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- 31 Supra, Note 3.
- 32 Supra, Note 1.
- 33 Supra, Note 3. 34 Supra, Note 2.
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- 7 The Norwegian ETS is designed in a similar way to the EU ETS, and many of the flexibility guidelines for the two programmes are the same. Banking was not allowed between Phase I and Phase II, but unlimited allowances were permitted to carry over between Phase II and Phase III, and between years in Phase I.

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- 38 Supra, Note 5.
- 39 Ranson, Matthew and Robert Stavins (May 2012). "Post-Durban Climate Policy Architecture Based on Linkage of Cap-and-Trade Systems." The Chicago Journal
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 4º Due to its linkage with the EU ETS, Norway was required to submit a National Allocation Plan (NAP) for Phase II. This plan set the framework for allowance allocation. The NAP had to be approved by the EFTA Surveillance Authority (ESA) before Norwegian installations were officially allowed to transfer allowances from their accounts to accounts in the EU ETS.
- 41 Supra, Note 5.

- ⁴² Supra, Note 3. ⁴³ Supra, Note 1. ⁴⁴ Supra, Note 3.
- 45 Supra, Note 28.
- 46 Supra, Note 6.

- ⁴⁷ *Supra*, Note 6. ⁴⁸ *Supra*, Note 6. ⁴⁹ *Supra*, Note 10.
- 50 Summer, Jenny, Lori Bird, and Hillary Smith (December 2009). "Carbon Taxes: A Review of Experience and Policy Design Considerations." National Renewable
- Energy Laboratory (NREL). Available at http://www.nrel.gov/docs/fy100sti/47312.pdf
 ⁵¹ NOK340 in 2007 was equivalent to ~US\$62, and NOK160 was ~US\$29. Source: Oanda (2012). "Historical Exchange Rates." Available at http://www.oanda.com/currency/historical-rates/
- 52 Supra, Note 3.
- 53 http://www.regjeringen.no/pages/38117723/PDFS/STM201120120021000EN_PDFS.pdf
- 54 Supra, Note 1.
- 55 For perspective, 128.1 TWh of electricity was generated in Norway in 2011. Source: Norwegian Water Resources and Energy Directorate. "Electricity disclosure 2011." Available at http://www.nve.no/en/Electricity-market/Electricity-disclosure-2011/
- 56 Supra, Note 1.
- se Climate Funds Update. "Norway's International Climate and Forest Initiative." Heinrich Boll Stiftung, The Green Political Foundation. Available at $\frac{\text{http://www.climatefundsupdate.org/listing/norway-s-international-climate-and-forest-initiative}{59 \ Supra}, \text{Note 3}.$