The Follo Line (Norwegian : Follobanen) is a planned 22 @.@ 5 @-@ kilometer (14 @.@ 0 mi) high @-@ speed railway between Oslo and Ski , Norway . Running parallel to the Østfold Line , it will be engineered for 250 km / h (155 mph) . Terminal stations will be Oslo Central Station and Ski Station . Most of the line , 19 kilometres (12 mi) , will be in a single tunnel , which will be the longest railway tunnel in the country . Construction is estimated to start in 2014 , and may be completed by 2020 / 21 . The Follo Line will increase capacity from twelve to forty trains per hour along the South Corridor , and will allow express and regional trains to decrease travel time from Ski to Oslo from 22 to 11 minutes . The line is prospected to cost over 20 billion Norwegian krone (NOK) .

The project is a continuation of the Norwegian National Rail Administration 's plan to build four tracks along the three main corridors out of Oslo; the Gardermoen Line was completed in 1998, and the Asker Line has been completed in 2011. Between 1989 and 1996, the Østfold Line south of Ski to Moss was upgraded to double track and higher speeds. To take full advantage of this and allow the rest of the Østfold Line to be upgraded for high speeds, it is necessary to increase capacity through the bottleneck from Oslo to Ski. The first plans for the Follo Line were launched in 1995, and also included an intermediate station at Vevelstad and Kolbotn. The new line is predicted to increase rush hour rail ridership 63 %, and increased freight on rail would remove 750 trucks daily from European Route E18.

= = Background = =

The first railway in the Follo district was the Østfold Line of the Norwegian State Railways (NSB) that opened on 2 January 1879 , between Oslo East Station and Halden . Later the same year , the line was extended to the Swedish border , where it connected to the Norway / Vänern Line . The importance of Ski Station increased on 24 November 1882 , when it became the station where the Eastern Østfold Line split , and went via Inner Østfold to Sarpsborg , where the two lines reconnected . Electrification of the section from Oslo to Kolbotn was completed on 18 January 1937 , and the section to Ski finished in 1939 ; the whole Østfold line was completed in 1940 . Between 1924 and 1939 , NSB built double track along the route between Ski and Oslo . From 1989 to 1996 , NSB upgraded the track to double track from Ski to Sandbuka , just north of Moss . This section is capable of speeds of 200 km / h (120 mph) , however the maximum is 160 km / h (99 mph) due to short distances between stops and limitations of the rolling stock .

In 1992, the Norwegian Parliament decided to build the first high @-@ speed railway in Norway, from Oslo via the new Oslo Airport, Gardermoen to Eidsvoll. This line would run parallel to the Hoved Line, increasing the speed and capacity along the route. Fast express and regional trains could run along the new section, while slower commuter trains used the old tracks and could make many stops without disturbing other traffic. Projects were launched during the 1990s to create similar high @-@ speed bypasses from Oslo to Ski, and from Skøyen (west of Oslo) to Asker. Construction of the latter? christened the Asker Line? started in 2001, and the first section from Asker to Sandvika opened in 2005, while the second section is expected to open in 2011.

The Østfold Line between Oslo and Ski remains the largest bottle @-@ neck on the Norwegian railway network . The line restrains the track to twelve trains per hour (six per direction) and hinders freight trains from using it during rush hour . The bottleneck occurs because there are up to four trains each hour making stops at all stations , and these stops delay all express and regional trains that follow . Travel time is 22 minutes for direct trains to Ski , and 31 minutes for commuter trains with a speed limit of 80 km / h (50 mph) along most of the line . Capacity on the upgraded double track from Ski to Moss cannot be fully utilized due to the limitations along the section from Ski to Oslo , and further growth in the number of freight trains along the South Corridor to Sweden and Continental Europe is impossible without reducing the number of passenger trains .

Despite the existing double track all the way from Oslo to Moss, a further upgrade southwards will not be able to increase capacity past the current single train per hour to Fredrikstad, Sarpsborg and

Halden . The most optimistic plans involve finishing the first upgrades of track south of Moss simultaneously with the Follo Line . The Rail Administration and Ministry of Transport is working on proposals for a high @-@ speed railway between Oslo and Gothenburg in Sweden . This line would most likely use the Follo Line for the initial distance from Oslo .

= = Route = =

The initial plan from 1995 involved two intermediate stations , at Vevelstad and Kolbotn . The plans also suggested building the line in two phases , first between Ski and Kolbotn , and then from Kolbotn to Oslo . In 2008 , the National Rail Administration announced two possible plans for the right @-@ of @-@ way ? both predominantly in tunnel . The one proposal included Kolbotn , the other did not . Both excluded Vevelstad as a station on the new line , since the station could not develop as a hub , and would still keep services along the existing commuter line . A report from Det Norske Veritas published in 2008 , and ordered by the Rail Administration , concluded that neither a station at Vevelstad or at Kolbotn could support the extra cost of construction . A direct line with no intermediate stops is estimated to cost NOK 11 billion , while a line via Kolbotn would cost 13 @.@ 5 billion . The report also argued that the intermediate stops would decrease capacity and increase travel time for all passengers departing south of Ski and traveling north . The exclusion of Kolbotn would also increase the importance of Ski as a regional public transport hub . In 2009 , the Rail Administration abandoned the plans to build the line via Kolbotn , stating that it was more important to secure a fast connection to Ski . At the same time , they promised to upgrade the existing station at Kolbotn .

The rail line is planned for at least 250 km / h (160 mph) , although faster speeds are being considered . The earliest possible construction start is 2014 , which could allow completion by 2020 / 21 . Ski Station will also be upgraded as part of the project , and will be expanded to six tracks . Plans to connect the Eastern Østfold Line to the slower line were considered where the Eastern Østfold Line diverges from the Østfold Line at Ski . However this has changed so the local trains from Eastern Østfold can travel to Oslo faster along the new tracks .

Just south of Oslo Central Station , each of the two tracks will diverge , and follow different routes . The inbound track will hook up with the Østfold Line at Sjursøya , while the outbound track will diverge at Loenga . An additional connection to the Østfold Line will be made at Nordstrand . The Østfold Line connects to the Hoved Line and Loenga ? Alnabru Line before reaching Oslo Central Station (Oslo S) . If the Kolbotn @-@ alternative for the Follo Line is chosen , the Østfold Line will be rebuilt to follow a similar path to the Kolbotn station , which will require a new station building to accommodate the two lines . For this alternate route the two lines will enter the Kolbotn station at two levels , with the Follo Line running in a tunnel below , and the Østfold Line running at @-@ grade above .

= = Impact = =

The Follo Line will allow the capacity in the South Corridor from Oslo to increase from about twelve to forty trains per hour . Local and freight trains will use the Østfold Line , while regional and express trains will use the Follo Line . Travel time will be reduced from 22 to 11 minutes . With a new line , there will be 11 @,@ 000 more public transport trips through the corridor ; this includes a 67 % increase during rush @-@ hour and 43 % the rest of the day . This allows a reduction of 5 @,@ 800 car trips per day and reduces carbon dioxide emissions of 5 @,@ 474 tonnes . Rush hour capacity would be eight trains per hour to Kolbotn , with four continuing to Ski along the old line . The new line would be served by four trains to Moss , two to Mysen and two to Halden . There would be half the frequency during off @-@ peak hours .

The Østfold Line is the railway that connects Norway to Continental Europe, and 80 % of all land @-@ based, international freight transport goes through Østfold. Until the Follo Line opens, there cannot be a capacity increase on international freight trains to Norway. The Rail Administration has set a goal of tripling the amount of rail freight by 2040, which for the South Corridor is equal to the