

Luxembourg, 6 February 2018

## Environmental and Social Data Sheet

### Overview

Project Name:	NORTHVOLT COMMERCIAL DEMONSTRATION LINE (FDP)
Project Number:	2017-0637
Country:	SWEDEN
Project Description:	The project concerns the promoter's investments for the construction and operation in Vasteras, Sweden, of an innovative first-of-a-kind demonstration plant for the manufacturing of advanced Li-ion cells for battery applications in transport, stationary storage and industrial and consumer applications.
EIA required:	yes
Project included in Carbon Footprint Exercise <sup>1</sup> :	no
(details for projects included are provided in section: "EIB Carbon Footprint Exercise")	

### Environmental and Social Assessment

#### Environmental Assessment

The investment concerns the construction and operation of a small scale demonstration manufacturing plant for the production of advanced Li-ion cells and batteries. As such, the project includes the deployment of industrial processes concerning chemical conversion and metal processing. The investment therefore falls under the scope of EU Directive 2014/52/EU (Annex 2) amending the EIA Directive 2011/92/EU and requires an Environmental Impact Assessment and environmental operating authorisations from the competent authorities.

The promoter is currently undertaking a full EIA process for this project. It is currently foreseen to submit the EIA study to the competent authority (Mark- och miljödomstolen in Nacka) by December 2017. While the promoter expects to receive a building permit by the Municipality of Västerås to start building the plant by March 2018, the full environmental permit to operate the plant, together with the relevant Industrial Emission authorisation, is foreseen to be granted only by June 2018.

The manufacturing of Li-ion cell batteries involves rather energy-intensive processes and therefore has a relevant impact in terms of CO<sub>2</sub> emissions. However, in the case of this project, the limited scale of the demonstration plant and the possibility to source low-carbon renewable electricity in Sweden, leads to a carbon footprint of the demonstration plant well below the EIB applicable thresholds for absolute and relative CO<sub>2</sub> emissions. Indicatively, the absolute emissions of the plant's operations are estimated at about 1.5kT CO<sub>2</sub>eq/y and the relative ones are estimated in the range of 6-8.5kT CO<sub>2</sub>eq/y.

<sup>1</sup> Only projects that meet the scope of the Pilot Exercise, as defined in the EIB draft Carbon Footprint Methodologies, are included, provided estimated emissions exceed the methodology thresholds: above 100,000 tons CO<sub>2</sub>e/year absolute (gross) or 20,000 tons CO<sub>2</sub>e/year relative (net) – both increases and savings.

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## Public Consultation and Stakeholder Engagement

The promoter has undertaken a public consultation in the context of the project for the demonstration plant.

- An initial consultation meeting open to any possible stakeholder interested was held on 25/09/2017 in Västerås (a publication was made on the municipality website on 19/09/2017)
- On 10/10/2017 a consultation form was sent via email to the Västerås City Council and to the County Council in Västmanland. On 12/10/2017 the promoter sent by mail the consultation form to the neighbouring enterprises and property owners at the Finnslätterns Industrial Park, as well as to Mälarenergi, the Swedish Fire and Rescue Services, to the Västerås City Council and to the County Council in Västmanland.
- A consultation meeting with the Västerås City Council and the County Council in Västmanland was held on 26/10/2017. During the consultation process a decision was made to revise the consultation form and expand its scope.
- On 27.10.2017 a revised consultation form was sent out by e-mail, as well as a letter to the Västerås City Council, the County Council in Västmanland, the Swedish Civil Contingencies Agency, the Swedish Environmental Protection Agency, the Swedish National Heritage Board and the Swedish Radiation Safety Authority. On the same day, an information sheet was sent to neighbouring enterprises and property owners at the Finnslätterns Industrial Park, informing them that the consultation material had been revised and the updated documentation was available on Northvolt's website.
- A publication about the public consultation process was made on the newspaper Västmanlands Länstidning (VLT) on 28/10/2017 where all interested parties were invited to submit questions and concerns until 10/11/2017
- At the end of the public consultation process the most relevant comments concerned the recommendation to expand and improve the scope of analysis and possible impact quantification as well as to include a proper risk management investigation and plan in the upcoming EIA study. The promoter has confirmed to have taken into account all comments received for the preparation of the environmental permit application.

## Conclusions and Recommendations

Obtaining the necessary environmental approvals from the competent authorities and the provision of the full EIA study for publication will be made a condition for the disbursement of the full loan amount. Only the portion of the loan linked to the building facility and infrastructure investments will be disbursed after the promoter is granted the relevant construction authorisation by the Municipality of Västerås.

The promoter is expected to implement all the mitigation initiatives that will be necessary as a result of the EIA process. Subject to this condition, the project is not expected to have any significant negative impact neither in the natural environment nor on the human environment and in public health. Pending the conclusion of the environmental authorisation process, the project is considered as acceptable for EIB financing.