

ILDS Requirements



The Norwegian Oil and Gas Association is an employer and industry association for oil companies and supplier firms engaged in the activities on the Norwegian Continental Shelf. The Norwegian Oil and Gas Association is affiliated with the Confederation of Norwegian Business and Industry, NHO.

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1 OVERVIEW

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2 ACCESS CONTROL

Id	Pri	Requirement
1.1	Must have	Epic As a partner I would like to have access control
1.1.1	Must have	User Story As a partner I would like to authenticate myself So that I can identify as a valid user Acceptance Criteria Mechanism for authentication implemented
1.1.2	Must have	User Story As a partner I would like access to my data So that I can access data that belongs to me Acceptance Criteria Mechanism for authorization implemented
1.1.3	Must have	User Story As a partner I need my data to be restricted So that only license partners can access my data Acceptance Criteria Mechanism for authorization restrictions implemented
1.1.4	Could have	User Story As a partner I would like to have seamless authentication So that I do not need to provide a username and password Acceptance Criteria Authentication with Single Sign On (SSO) implemented

3 LICENSE DATA

Id	Pri	Requirement
2.1	Must have	Epic As a partner I would like to read my license data
2.1.1	Must have	User Story As a partner I would like to read my license data programmatically So that I can get an overview of my licenses in order to drill down further Acceptance Criteria

		<p>Overview of my licenses received through an api:</p> <ul style="list-style-type: none"> – License Id (according to NPD) – License Name (according to NPD)
2.1.2	Could have	<p>User Story As a partner I would like to visualize my license data So that I can select a license for further details</p> <p>Acceptance Criteria Overview of my licenses is displayed</p> <ul style="list-style-type: none"> – License Id (according to NPD) – License Name (according to NPD)

4 EMISSION DATA

Id	Pri	Requirement
3.1	Must have	<p>Epic As an operator I would like to register actual emission data</p>
3.1.1	Must have	<p>User Story As an operator I would like to register actual CO2 data per license So that updated CO2 emission data actuals are available to partners</p> <p>Acceptance Criteria Implementation of a mechanism to register actual CO2 data as follows:</p> <ul style="list-style-type: none"> – CO2 emission total (tonnes) <ul style="list-style-type: none"> ○ CO2 emission from production <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas) ▪ Diesel ○ CO2 emission from mobile units <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas, oil) ▪ Diesel
3.1.2	Must have	<p>User Story As an operator I would like to register actual NOX data per license So that updated NOX emission data actuals are available to partners</p> <p>Acceptance Criteria Implementation of a mechanism to register actual NOX data as follows:</p> <ul style="list-style-type: none"> – NOX emission total (tonnes) <ul style="list-style-type: none"> ○ NOX emission from production <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas) ▪ Diesel ○ NOX emission from mobile units

		<ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas, oil) ▪ Diesel
3.1.3	Must have	<p>User Story As an operator I would like to register actual CH4 data per license So that updated CH4 emission data actuals are available to partners</p> <p>Acceptance Criteria Implementation of a mechanism to register actual CH4 data as follows:</p> <ul style="list-style-type: none"> – CH4 emission total (tonnes) <ul style="list-style-type: none"> ○ CH4 emission from production ○ CH4 emission from mobile units
3.1.4	Should have	<p>User Story As an operator I would like to correct registered actual data So that corrected emission data actuals are available to partners</p> <p>Acceptance Criteria Implementation of a mechanism to correct actual emission data</p>
3.2	Must have	<p>Epic As a partner I would like to read actual emission data programmatically</p>
3.2.1	Must have	<p>User Story As a partner I would like to read actual CO2 data programmatically So that I can utilize data automatically in internal and external reporting</p> <p>Acceptance Criteria Implementation of an API to read actual CO2 data as follows:</p> <ul style="list-style-type: none"> – CO2 emission total (tonnes) <ul style="list-style-type: none"> ○ CO2 emission from production <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas) ▪ Diesel ○ CO2 emission from mobile units <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas, oil) ▪ Diesel
3.2.2	Must have	<p>User Story As a partner I would like to read actual NOX data programmatically So that I can utilize data automatically in internal and external reporting</p> <p>Acceptance Criteria Implementation of an API to read actual NOX data as follows:</p> <ul style="list-style-type: none"> – NOX emission total (tonnes) <ul style="list-style-type: none"> ○ NOX emission from production <ul style="list-style-type: none"> ▪ Fuel gas

		<ul style="list-style-type: none"> ▪ Flaring (gas) ▪ Diesel ○ NOX emission from mobile units <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas, oil) ▪ Diesel
3.2.3	Must have	<p>User Story As a partner I would like to read actual CH4 data programmatically So that I can utilize data automatically in internal and external reporting</p> <p>Acceptance Criteria Implementation of an API to read actual CH4 data as follows:</p> <ul style="list-style-type: none"> – CH4 emission total (tonnes) <ul style="list-style-type: none"> ○ CH4 emission from production ○ CH4 emission from mobile units
3.2.4	Won't have	<p>User Story As a partner I would like to read actual GHG intensity programmatically So that I can utilize data automatically in internal and external reporting</p> <p>Acceptance Criteria Implementation of an API to read actual GHG intensity data as follows:</p> <ul style="list-style-type: none"> – GHG intensity (kg CO2e per boe / sm3)
3.2.5	Won't have	<p>User Story As a partner I would like to read actual total grid electricity consumption data programmatically So that I can utilize data automatically in internal and external reporting</p> <p>Acceptance Criteria Implementation of an API to read actual total grid electricity consumption data as follows:</p> <ul style="list-style-type: none"> – Total grid electricity consumption (MWh)
3.2.6	Won't have	<p>User Story As a partner I would like to read actual discharge to sea data programmatically So that I can utilize data automatically in internal and external reporting</p> <p>Acceptance Criteria Implementation of an API to read actual discharge to sea data as follows:</p> <ul style="list-style-type: none"> – Oil in water (mg/l) – Unintentional discharge to sea (number)
3.3	Should have	<p>Epic As a partner I would like to visualize actual emission data</p>
3.3.1	Should have	<p>User Story As a partner I would like a visual overview of actual emission data</p>

		<p>So that I can easily understand the underlying data</p> <p>Acceptance Criteria Visual overview of actual emission data is displayed:</p> <ul style="list-style-type: none"> – CO2 emission total (tonnes) <ul style="list-style-type: none"> ○ CO2 emission from production <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas) ▪ Diesel ○ CO2 emission from mobile units <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas, oil) ▪ Diesel – NOX emission total (tonnes) <ul style="list-style-type: none"> ○ NOX emission from production <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas) ▪ Diesel ○ NOX emission from mobile units <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas, oil) ▪ Diesel – CH4 emission total (tonnes) <ul style="list-style-type: none"> ○ CH4 emission from production ○ CH4 emission from mobile units
3.3.2	Should have	<p>User Story As a partner I would like to filter the visual overview of actual emission data So that I can work more efficiently</p> <p>Acceptance Criteria Visual overview of actual emission data can be filtered by:</p> <ul style="list-style-type: none"> – License Name (according to NPD) [One, Selection, All] – Date Period <ul style="list-style-type: none"> ○ From Month/Year ○ To Month/Year – Emission type <ul style="list-style-type: none"> ○ CO2 ○ NOX ○ CH4
3.3.3	Should have	<p>User Story As a partner I would like to group the visual overview of actual emission data So that I can work more efficiently</p> <p>Acceptance Criteria Visual overview of actual emission data can be grouped by:</p> <ul style="list-style-type: none"> – License Name (according to NPD) – Date Period <ul style="list-style-type: none"> ○ From Month/Year ○ To Month/Year – Emission type <ul style="list-style-type: none"> ○ CO2

		<ul style="list-style-type: none"> ○ NOX ○ CH4
3.3.4	Should have	<p>User Story As a partner I would like to sort the visual overview of actual emission data So that I can work more efficiently</p> <p>Acceptance Criteria Visual overview of actual emission data can be sorted by:</p> <ul style="list-style-type: none"> – License Name (according to NPD) – Date Period <ul style="list-style-type: none"> ○ From Month/Year ○ To Month/Year – Emission type <ul style="list-style-type: none"> ○ CO2 ○ NOX ○ CH4 – Emission values
3.3.5	Could have	<p>User Story As a partner I would like to generate a report of actual emission data So that I can share it easily with internal and external stakeholders</p> <p>Acceptance Criteria Report of actual emission data is generated to a suitable format (i.e PDF) based on the overview and according to the filter, grouping and sorting settings</p>
3.4	Could have	<p>Epic As an operator I would like to register forecasted emission data</p>
3.4.1	Could have	<p>User Story As an operator I would like to register forecasted CO2 data per license So that forecasted CO2 emission data are available to partners</p> <p>Acceptance Criteria Implementation of a mechanism to register forecasted CO2 data as follows:</p> <ul style="list-style-type: none"> – CO2 emission total (tonnes) <ul style="list-style-type: none"> ○ CO2 emission from production <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas) ▪ Diesel ○ CO2 emission from mobile units <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas, oil) ▪ Diesel
3.4.2	Could have	<p>User Story As an operator I would like to register forecasted NOX data per license So that forecasted NOX emission data are available to partners</p>

		Acceptance Criteria Implementation of a mechanism to register forecasted NOX data as follows: <ul style="list-style-type: none"> – NOX emission total (tonnes) <ul style="list-style-type: none"> ○ NOX emission from production <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas) ▪ Diesel ○ NOX emission from mobile units <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas, oil) ▪ Diesel
3.4.3	Could have	User Story As an operator I would like to register forecasted CH4 data per license So that forecasted CH4 emission data are available to partners Acceptance Criteria Implementation of a mechanism to register forecasted CH4 data as follows: <ul style="list-style-type: none"> – CH4 emission total (tonnes) <ul style="list-style-type: none"> ○ CH4 emission from production ○ CH4 emission from mobile units
3.4.4	Won't have	User Story As an operator I would like to correct registered forecasted data So that corrected forecasted emission data are available to partners Acceptance Criteria Implementation of a mechanism to correct forecasted emission data
3.5	Could have	Epic As a partner I would like to read forecasted emission data programmatically
3.5.1	Could have	User Story As a partner I would like to read forecasted CO2 data programmatically So that I can utilize data automatically in internal and external reporting Acceptance Criteria Implementation of an API to read forecasted CO2 data as follows: <ul style="list-style-type: none"> – CO2 emission total (tonnes) <ul style="list-style-type: none"> ○ CO2 emission from production <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas) ▪ Diesel ○ CO2 emission from mobile units <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas, oil) ▪ Diesel

3.5.2	Could have	<p>User Story As a partner I would like to read forecasted NOX data programmatically So that I can utilize data automatically in internal and external reporting</p> <p>Acceptance Criteria Implementation of an API to read forecasted NOX data as follows:</p> <ul style="list-style-type: none"> – NOX emission total (tonnes) <ul style="list-style-type: none"> ○ NOX emission from production <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas) ▪ Diesel ○ NOX emission from mobile units <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas, oil) ▪ Diesel
3.5.3	Could have	<p>User Story As a partner I would like to read forecasted CH4 data programmatically So that I can utilize data automatically in internal and external reporting</p> <p>Acceptance Criteria Implementation of an API to read forecasted CH4 data as follows:</p> <ul style="list-style-type: none"> – CH4 emission total (tonnes) <ul style="list-style-type: none"> ○ CH4 emission from production ○ CH4 emission from mobile units
3.6	Could have	<p>Epic As a partner I would like to visualize forecasted emission data</p>
3.6.1	Could have	<p>User Story As a partner I would like a visual overview of forecasted emission data So that I can easily understand the underlying data</p> <p>Acceptance Criteria Visual overview of forecasted emission data is displayed:</p> <ul style="list-style-type: none"> – CO2 emission total (tonnes) <ul style="list-style-type: none"> ○ CO2 emission from production <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas) ▪ Diesel ○ CO2 emission from mobile units <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas, oil) ▪ Diesel – NOX emission total (tonnes) <ul style="list-style-type: none"> ○ NOX emission from production <ul style="list-style-type: none"> ▪ Fuel gas ▪ Flaring (gas) ▪ Diesel ○ NOX emission from mobile units <ul style="list-style-type: none"> ▪ Fuel gas

		<ul style="list-style-type: none"> ▪ Flaring (gas, oil) ▪ Diesel – CH4 emission total (tonnes) <ul style="list-style-type: none"> ○ CH4 emission from production ○ CH4 emission from mobile units
3.6.2	Could have	<p>User Story As a partner I would like to filter the visual overview of forecasted emission data So that I can work more efficiently</p> <p>Acceptance Criteria Visual overview of forecasted emission data can be filtered by:</p> <ul style="list-style-type: none"> – License Name (according to NPD) [One, Selection, All] – Date Period <ul style="list-style-type: none"> ○ From Month/Year ○ To Month/Year – Emission type <ul style="list-style-type: none"> ○ CO2 ○ NOX ○ CH4
3.6.3	Could have	<p>User Story As a partner I would like to group the visual overview of forecasted emission data So that I can work more efficiently</p> <p>Acceptance Criteria Forecasted emission data can be grouped by:</p> <ul style="list-style-type: none"> – License Name (according to NPD) – Date Period <ul style="list-style-type: none"> ○ From Month/Year ○ To Month/Year – Emission type <ul style="list-style-type: none"> ○ CO2 ○ NOX ○ CH4
3.6.4	Could have	<p>User Story As a partner I would like to sort the visual overview of forecasted emission data So that I can work more efficiently</p> <p>Acceptance Criteria Visual overview of forecasted emission data can be sorted by:</p> <ul style="list-style-type: none"> – License Name (according to NPD) – Date Period <ul style="list-style-type: none"> ○ From Month/Year ○ To Month/Year – Emission type <ul style="list-style-type: none"> ○ CO2 ○ NOX ○ CH4

		– Emission values
3.6.5	Could have	<p>User Story As a partner I would like to generate a report of forecasted emission data So that I can share it easily with internal and external stakeholders</p> <p>Acceptance Criteria Report of forecasted emission data is generated to a suitable format (e.g PDF) based on the overview and according to the filter, grouping and sorting settings</p>

5 NON FUNCTIONAL REQUIREMENTS

Id	Pri	Requirement
4.1	Should have	<p>Epic As a partner I want the system to be highly responsive</p>
4.1.1	Should have	<p>User Story As a partner I want the APIs to be highly responsive So that I can work efficiently</p> <p>Acceptance Criteria Less than 200 millisecond response time</p>
4.1.2	Should have	<p>User Story As a partner I want the visualizations to be highly responsive So that I can work efficiently</p> <p>Acceptance Criteria Less than 500 millisecond response time</p>