

ABB MOTION SERVICES

ABB Ability™ Digital Powertrain condition monitoring for rotating equipment

What's new? PI33

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New features

New Energy Appraisal - Fleet overview report

The new “Energy Appraisal - Fleet overview report” provides energy efficiency insights by using the real-time data collected via the ABB Ability Digital Powertrain.

Note: This feature is only available for *Organization Admin*.

Portal:

1. In the Smart Sensor portal, go to Organization Management → Reports → Get your Energy Appraisal.

Asset groups	User groups	Users	Plant management	Settings	Trusted organization	Reports																																																																													
<table border="1"> <thead> <tr> <th>Upload timestamp</th> <th>Report type</th> <th>Reporting period</th> <th>Unit type</th> <th>Status</th> <th>Comment</th> <th>Actions</th> </tr> </thead> <tbody> <tr> <td>4/27/2022, 2:49:34 PM</td> <td>Energy Appraisal - Energy Fleet Overview</td> <td>3/28/2022 - 4/27/2022</td> <td>Metric</td> <td>Error</td> <td>Insufficient eligible assets to generate the report</td> <td>🔗</td> </tr> <tr> <td>4/27/2022, 6:35:57 AM</td> <td>Energy Appraisal - Energy Fleet Overview</td> <td>3/28/2022 - 4/27/2022</td> <td>Metric</td> <td>Completed</td> <td>Report was generated successfully</td> <td>🔗</td> </tr> <tr> <td>4/20/2022, 3:53:00 PM</td> <td>Energy Appraisal - Energy Fleet Overview</td> <td>3/21/2022 - 4/20/2022</td> <td>Metric</td> <td>Completed</td> <td>Report was generated successfully</td> <td>🔗</td> </tr> <tr> <td>4/19/2022, 2:15:31 PM</td> <td>Energy Appraisal - Energy Fleet Overview</td> <td>3/20/2022 - 4/19/2022</td> <td>Metric</td> <td>Completed</td> <td>Report was generated successfully</td> <td>🔗</td> </tr> <tr> <td>4/19/2022, 11:00:25 AM</td> <td>Energy Appraisal - Energy Fleet Overview</td> <td>3/20/2022 - 4/19/2022</td> <td>Metric</td> <td>Completed</td> <td>Report was generated successfully</td> <td>🔗</td> </tr> <tr> <td>4/19/2022, 10:31:24 AM</td> <td>Energy Appraisal - Energy Fleet Overview</td> <td>3/20/2022 - 4/19/2022</td> <td>Metric</td> <td>Completed</td> <td>Report was generated successfully</td> <td>🔗</td> </tr> <tr> <td>4/19/2022, 9:50:54 AM</td> <td>Energy Appraisal - Energy Fleet Overview</td> <td>3/20/2022 - 4/19/2022</td> <td>Metric</td> <td>Completed</td> <td>Report was generated successfully</td> <td>🔗</td> </tr> <tr> <td>4/19/2022, 8:09:44 AM</td> <td>Energy Appraisal - Energy Fleet Overview</td> <td>3/20/2022 - 4/19/2022</td> <td>Metric</td> <td>Completed</td> <td>Report was generated successfully</td> <td>🔗</td> </tr> <tr> <td>4/18/2022, 7:56:06 PM</td> <td>Energy Appraisal - Energy Fleet Overview</td> <td>3/19/2022 - 4/18/2022</td> <td>Metric</td> <td>Completed</td> <td>Report was generated successfully</td> <td>🔗</td> </tr> <tr> <td>4/18/2022, 6:52:38 PM</td> <td>Energy Appraisal - Energy Fleet Overview</td> <td>3/19/2022 - 4/18/2022</td> <td>Metric</td> <td>Completed</td> <td>Report was generated successfully</td> <td>🔗</td> </tr> </tbody> </table>							Upload timestamp	Report type	Reporting period	Unit type	Status	Comment	Actions	4/27/2022, 2:49:34 PM	Energy Appraisal - Energy Fleet Overview	3/28/2022 - 4/27/2022	Metric	Error	Insufficient eligible assets to generate the report	🔗	4/27/2022, 6:35:57 AM	Energy Appraisal - Energy Fleet Overview	3/28/2022 - 4/27/2022	Metric	Completed	Report was generated successfully	🔗	4/20/2022, 3:53:00 PM	Energy Appraisal - Energy Fleet Overview	3/21/2022 - 4/20/2022	Metric	Completed	Report was generated successfully	🔗	4/19/2022, 2:15:31 PM	Energy Appraisal - Energy Fleet Overview	3/20/2022 - 4/19/2022	Metric	Completed	Report was generated successfully	🔗	4/19/2022, 11:00:25 AM	Energy Appraisal - Energy Fleet Overview	3/20/2022 - 4/19/2022	Metric	Completed	Report was generated successfully	🔗	4/19/2022, 10:31:24 AM	Energy Appraisal - Energy Fleet Overview	3/20/2022 - 4/19/2022	Metric	Completed	Report was generated successfully	🔗	4/19/2022, 9:50:54 AM	Energy Appraisal - Energy Fleet Overview	3/20/2022 - 4/19/2022	Metric	Completed	Report was generated successfully	🔗	4/19/2022, 8:09:44 AM	Energy Appraisal - Energy Fleet Overview	3/20/2022 - 4/19/2022	Metric	Completed	Report was generated successfully	🔗	4/18/2022, 7:56:06 PM	Energy Appraisal - Energy Fleet Overview	3/19/2022 - 4/18/2022	Metric	Completed	Report was generated successfully	🔗	4/18/2022, 6:52:38 PM	Energy Appraisal - Energy Fleet Overview	3/19/2022 - 4/18/2022	Metric	Completed	Report was generated successfully	🔗
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2. In the Get your Energy Appraisal window, read the information on different ABB report types. Click Energy Fleet Overview, to generate the report. If you need a different type of report, click Get Advisory and contact ABB support for additional information.

Get your Energy Appraisal

The Digital Powertrain Energy Appraisal is an expertise service that delivers energy efficiency insights by leveraging real data collected via ABB Ability™ Digital Powertrain. Three types of views are available:

- Energy Fleet Overview provides a high-level overview of your installed base fleet. It can be generated once per month. It aims to support you in answering the following question “Is there energy improvement potential in my fleet?”
- Energy Assets Comparison: it is an ABB managed expert advisory report that provides multiple assets comparison identified among the installed base. It aims to answer the following question: “Which assets should I focus on?”
- Energy Asset View provides a detailed view of a specific asset identified among the installed base. It aims to support you in answering the following question “Why is a specific asset not efficient and what can I do to become more efficient?”

Energy Fleet Overview
Get Advisory

Energy savings and efficiency are derived combining measurements and efficiency models in an indirect way. Measurement's accuracy might vary due to hardware constraints, sensor's position, type of motor and other variables. Efficiency models heavily rely on correctness of nameplate information inserted by the customer during installation. Please verify such data before requesting the Energy Appraisal.

Close

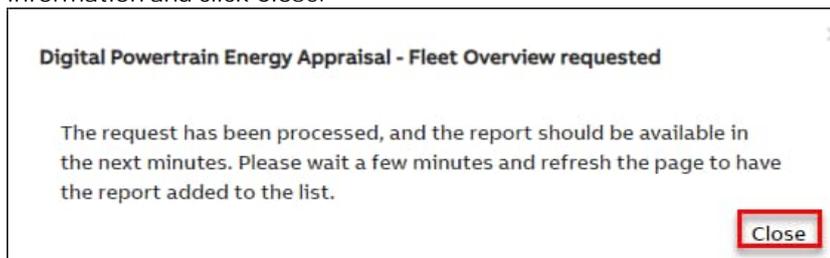
Note:

- You can generate the report only once a month, if the report was already generated in the previous 30 days, you must wait until the time elapses or contact ABB support for a different type of report.

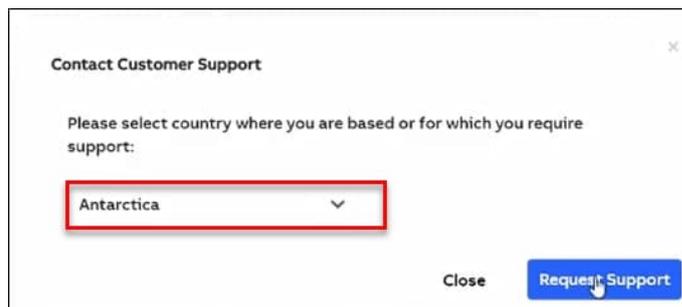
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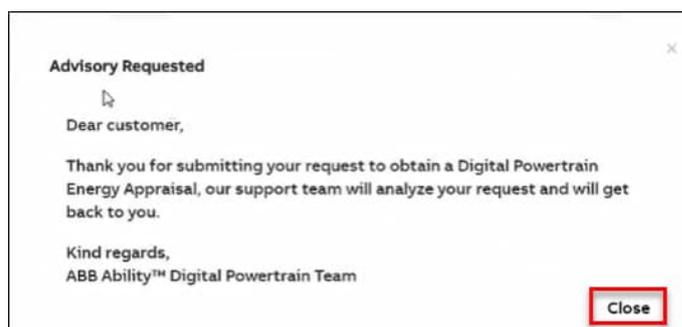
- Make sure that the organization contains at least two eligible assets and fulfills the following conditions:
 - Subscription: Active
 - Asset type: DOL motor asset type (VFD motors are excluded)
 - Rated slip value: > 15 rpm
 - Motor type: Low voltage motor (lower than 1000 V)
 - Monitored by: Smart Sensor Generation 2 only.
3. The request processed message appears if the above conditions are fulfilled. Read the information and click Close.



- If the report is not generated, you are prompted to request for more information from ABB support.
- If you requested a fleet overview report that is already generated, you are prompted to contact ABB support. In the Contact Customer Support window, select the country you are based or the country for which you require support and click Request Support.

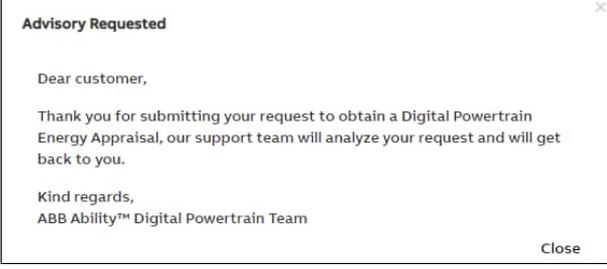


The Advisory requested confirmation message appears. Click Close.

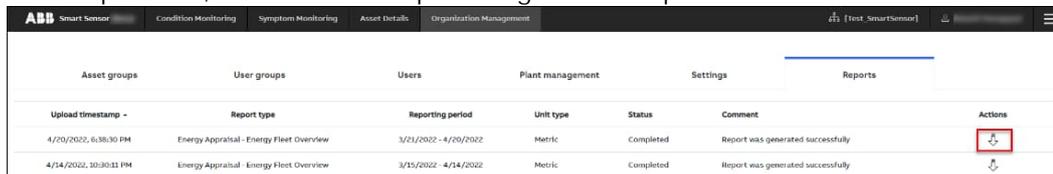


- If you clicked Get Advisory (see step 2), the following message windows appear. Read the information and perform the appropriate action.

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- i. 
- ii. 
- iii. 

4. In the reports list, download and inspect the generated report.



Upload timestamp	Report type	Reporting period	Unit type	Status	Comment	Actions
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4/14/2022, 10:30:11 PM	Energy Appraisal - Energy Fleet Overview	3/15/2022 - 4/14/2022	Metric	Completed	Report was generated successfully	

The downloaded report appears in a MS word file. The below screen is only a sample cover page of the report.

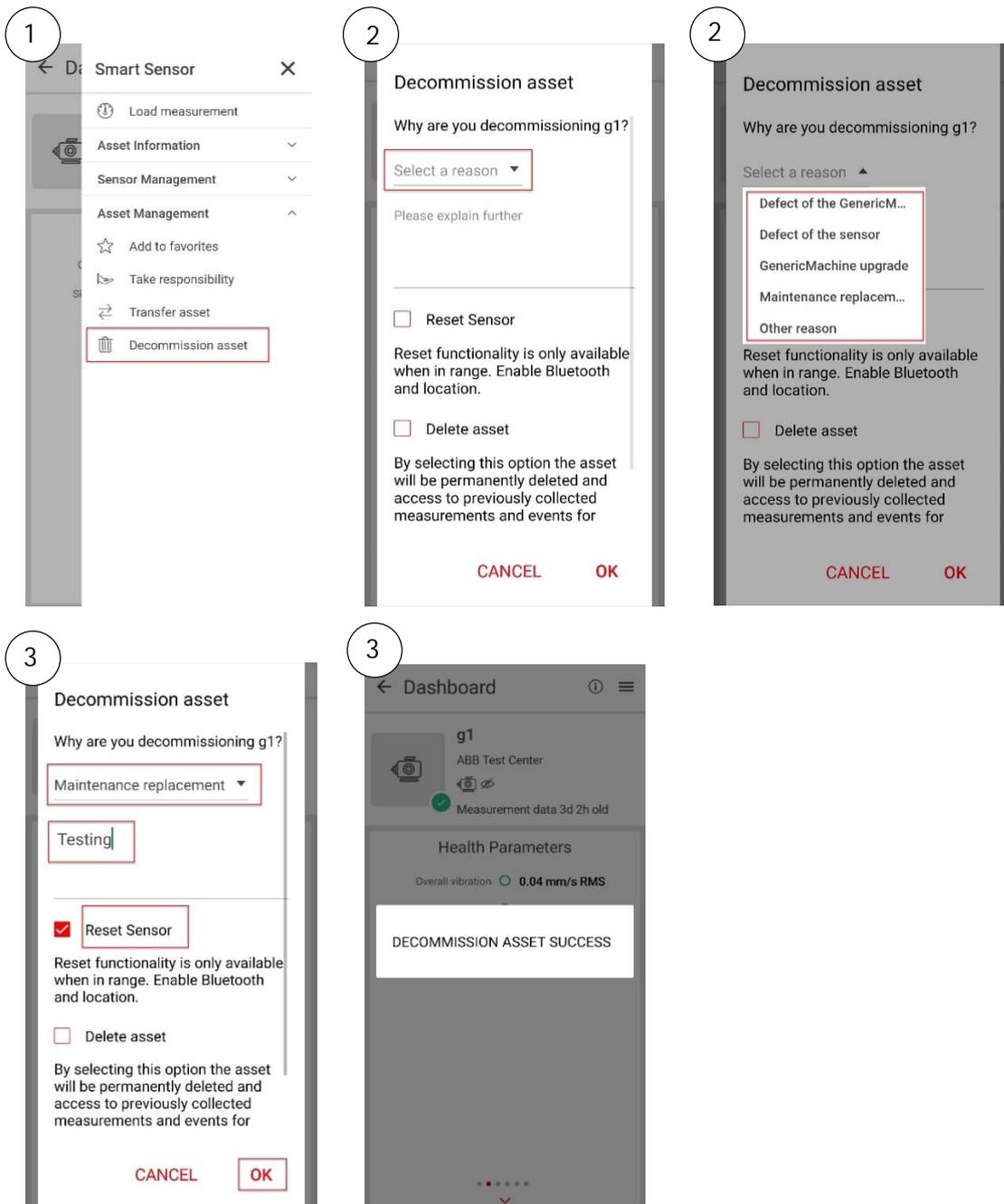


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Decommissioning an asset

The wording "Decommission asset" replaces "Delete asset" for better clarity of the decommissioning operation.

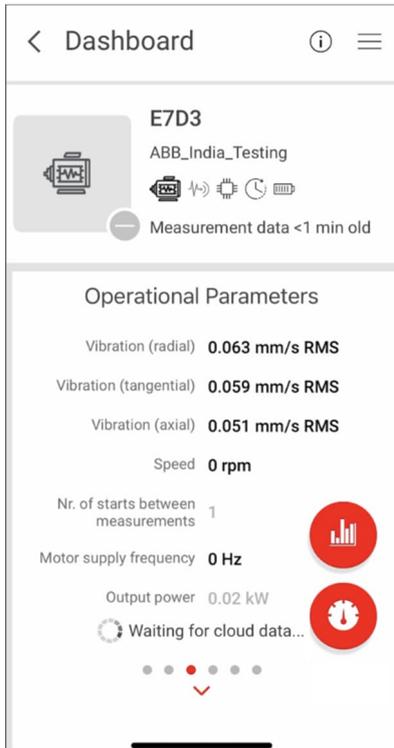
1. In the Smart Sensor mobile app, go to Asset Management → Decommission asset.
2. In the Decommission asset screen, select an appropriate reason for decommissioning and explain the reason if needed.
3. Select the required option, either Reset Sensor or Delete asset. Tap OK.
The *Decommission asset success*, message appears.
 - Select Reset Sensor option to remove the link between the sensor and asset i.e., to keep the asset as un-monitored without losing the measurement and event history and make the sensor available for the next commissioning.
 - Select Delete asset option to decommission the asset permanently.



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Load measurement indicator

After loading measurement data with the mobile device, loaded measurements from the sensor appear in the Health and Operational Parameters list. A loading indicator with the message “Waiting for cloud data” appears at the bottom of the Health and Operational Parameters screen. Some parameters that are to be calculated at the backend are greyed out until the data is uploaded to the cloud.



Note: Data synchronization takes at least three minutes to view the latest data.

Note: The user can manually synchronize the data by swapping down the asset list in the main menu of the mobile app.

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