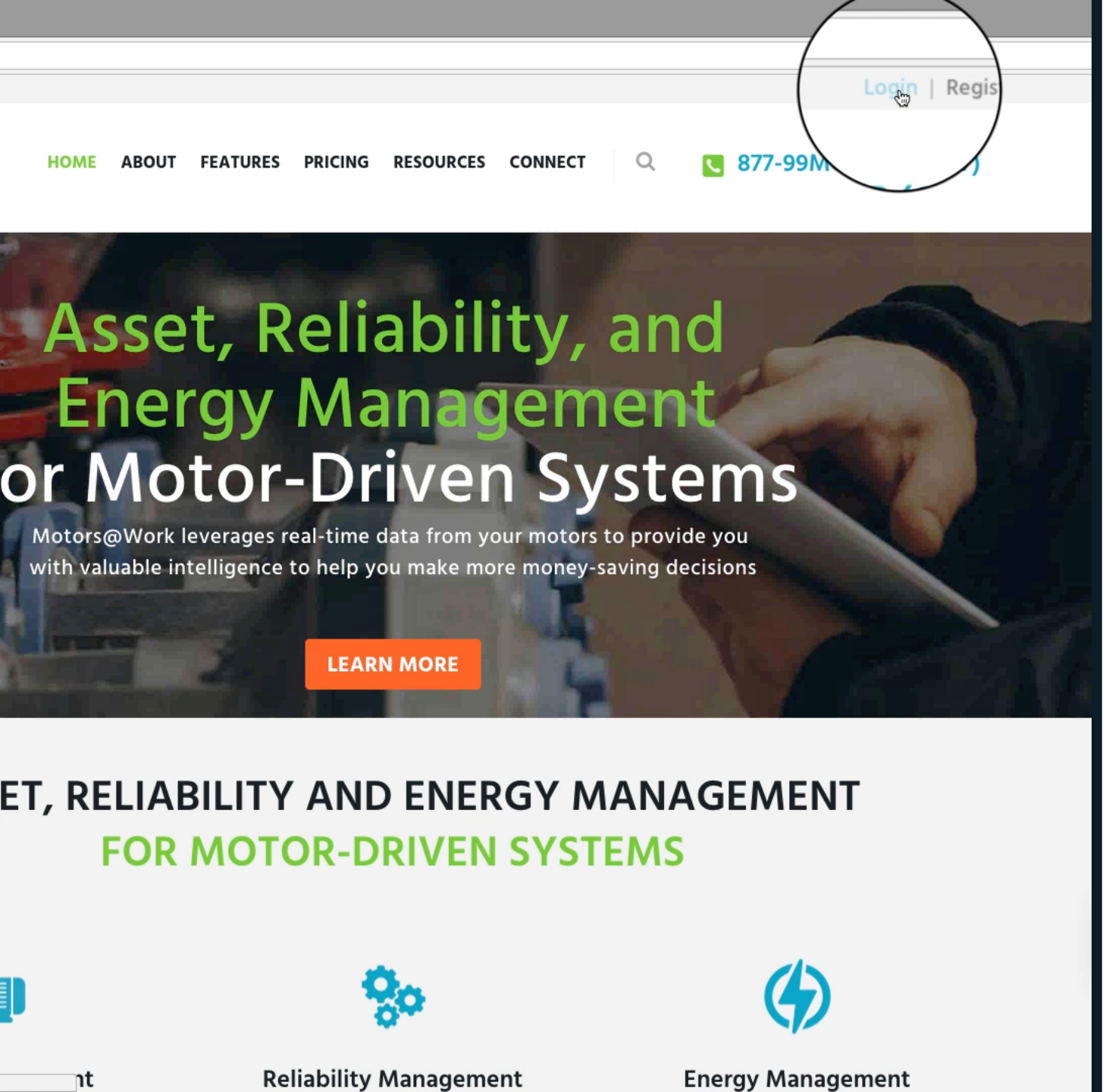
USING PUMP OPTIMIZATION

A QUICK-START GUIDE

MOTORS@WORK

LOG INTO MOTORS@WORK



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1. Open your browser & go to www.motorsatwork.com
2. Select Login in the upper right corner of the website

3. Enter your Email and Password in the appropriate fields

4. Click the Log In button

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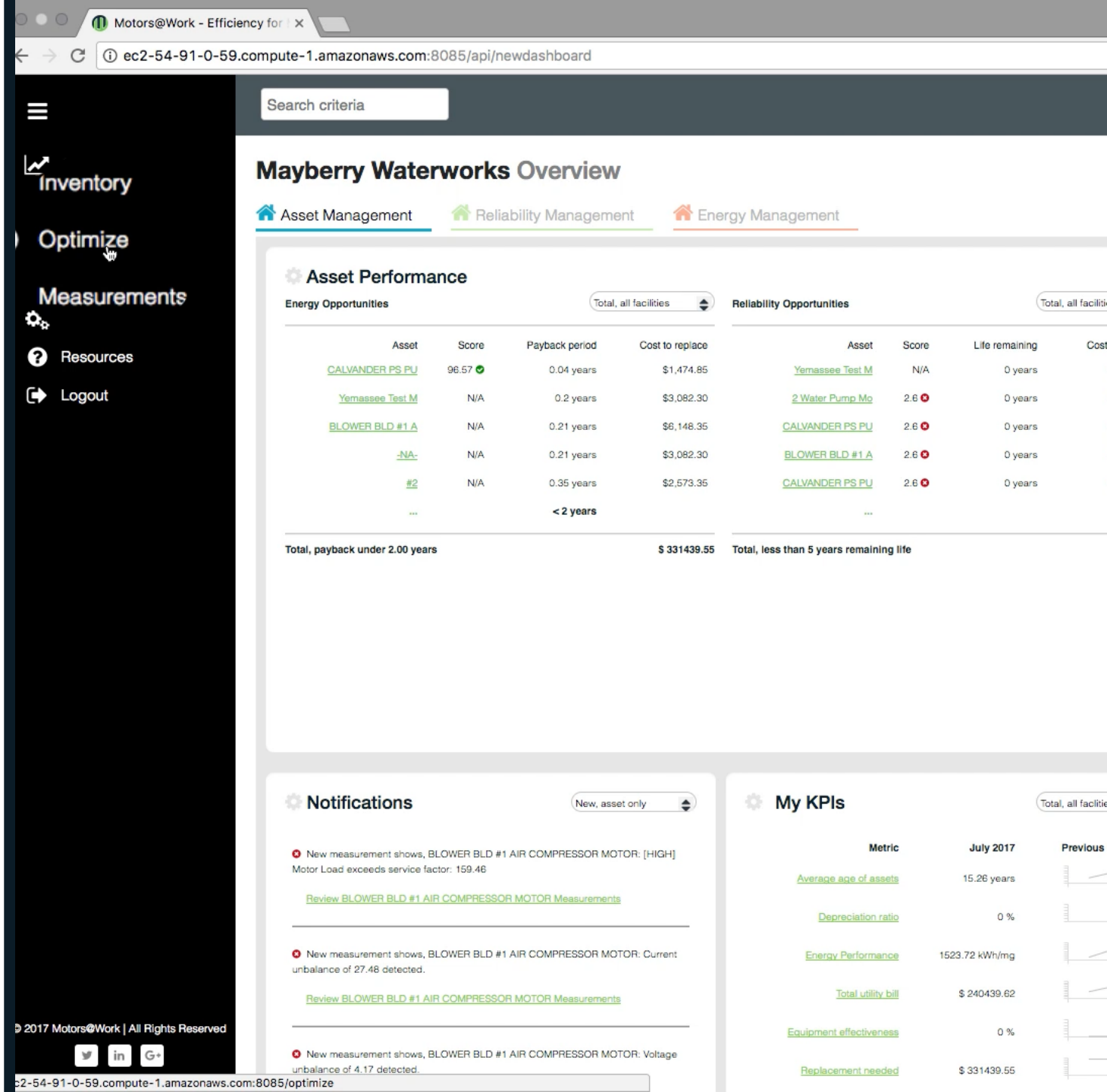
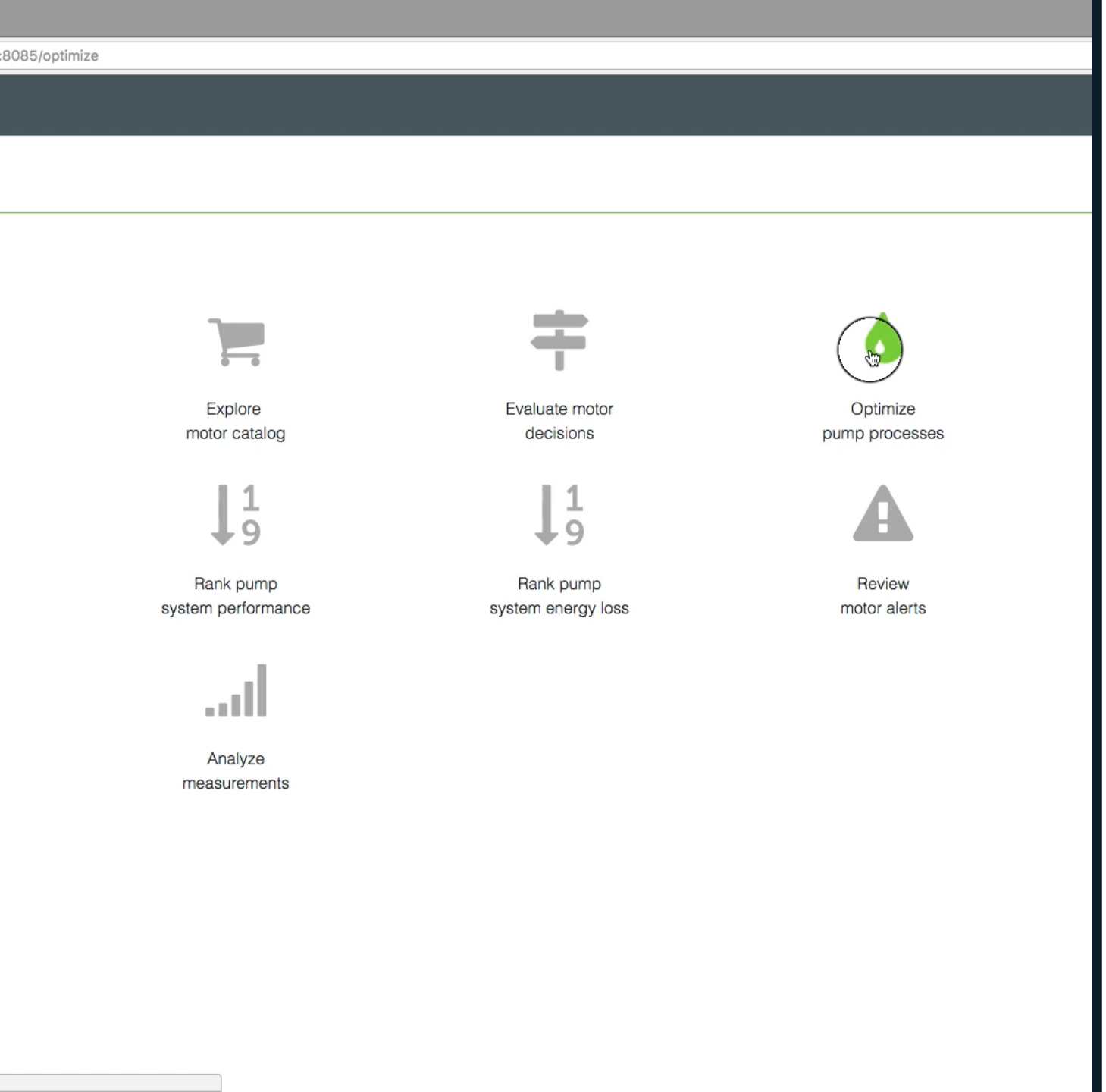
NAVIGATE TO PUMP OPTIMIZATION

1. Click on the [Optimize icon] in the navigation bar





2. Select the Optimize Pump Processes application from the list of available tools

TIP

Before using Pump Optimization, verify that

1. all pumps have been associated with this process;
2. all pumps have been associated with their respective motor; and
3. all motors and pumps associated with this process have at least one measurement

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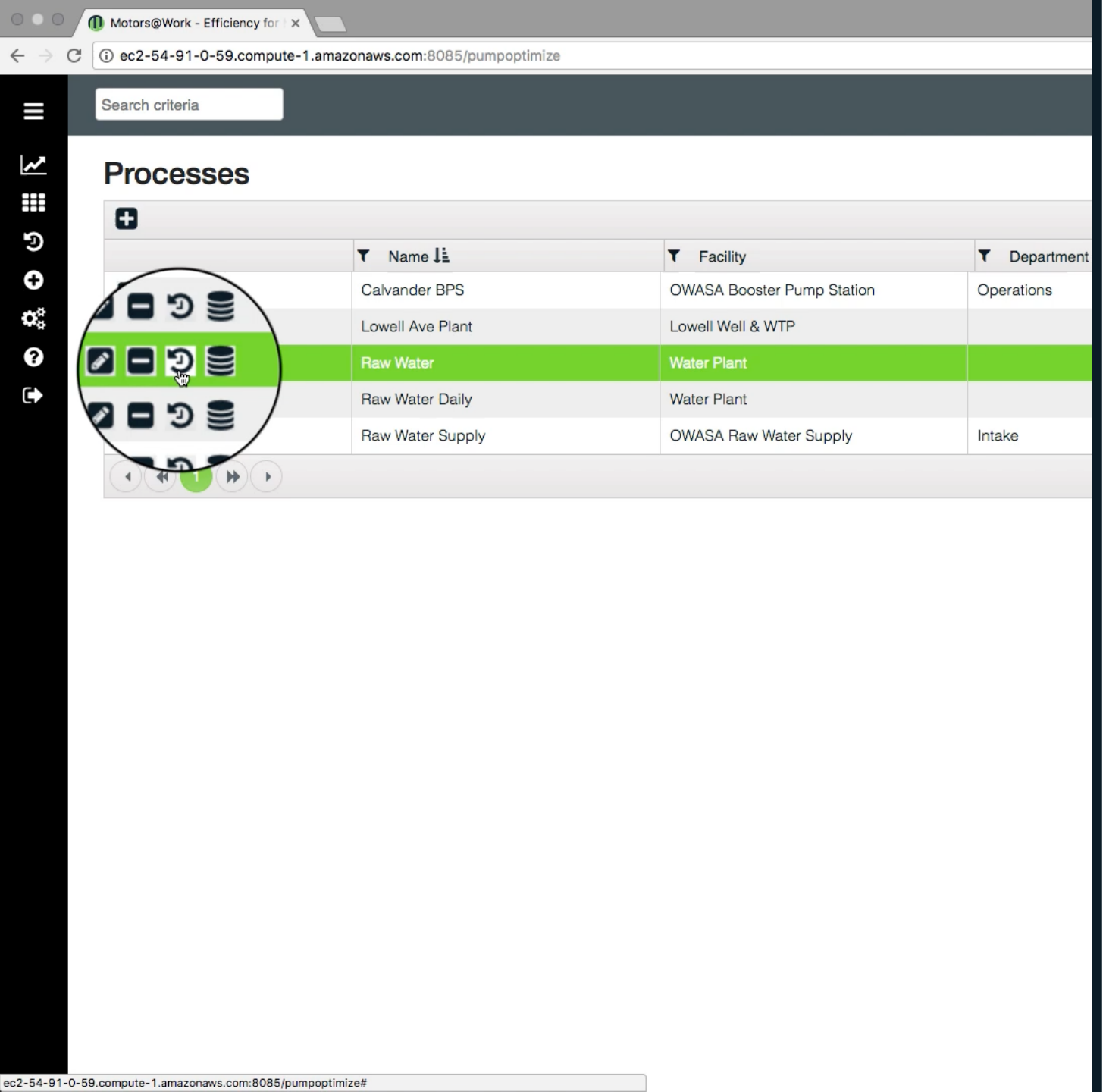

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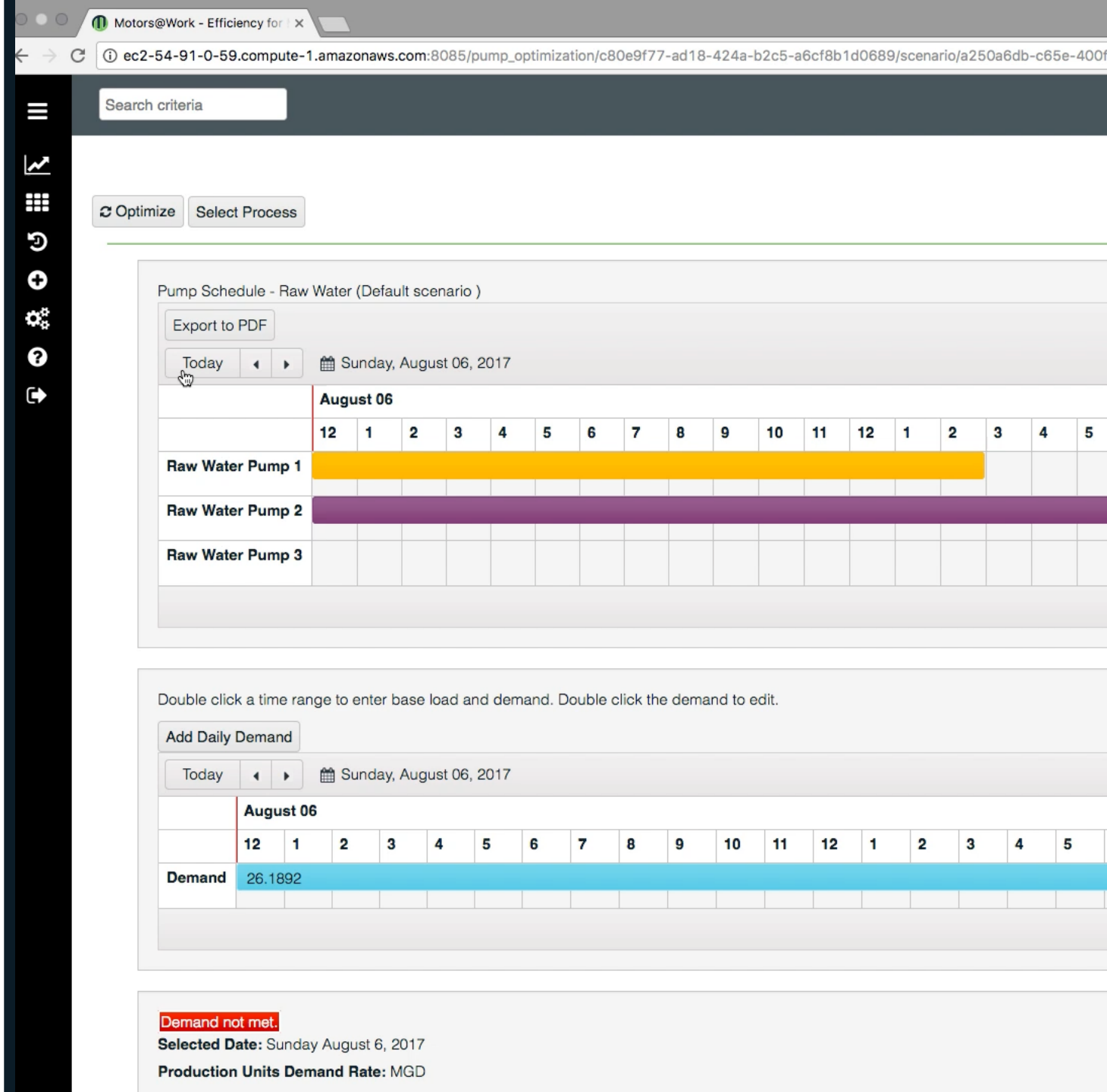
3. Select the name of the process you'd like to optimize, then click the ↻ [Optimize icon] in the grid to the left of that process's name

4. If you've previously loaded historical pump and weather data for this process, Motors@Work will forecast daily demand and optimize your pump schedule.



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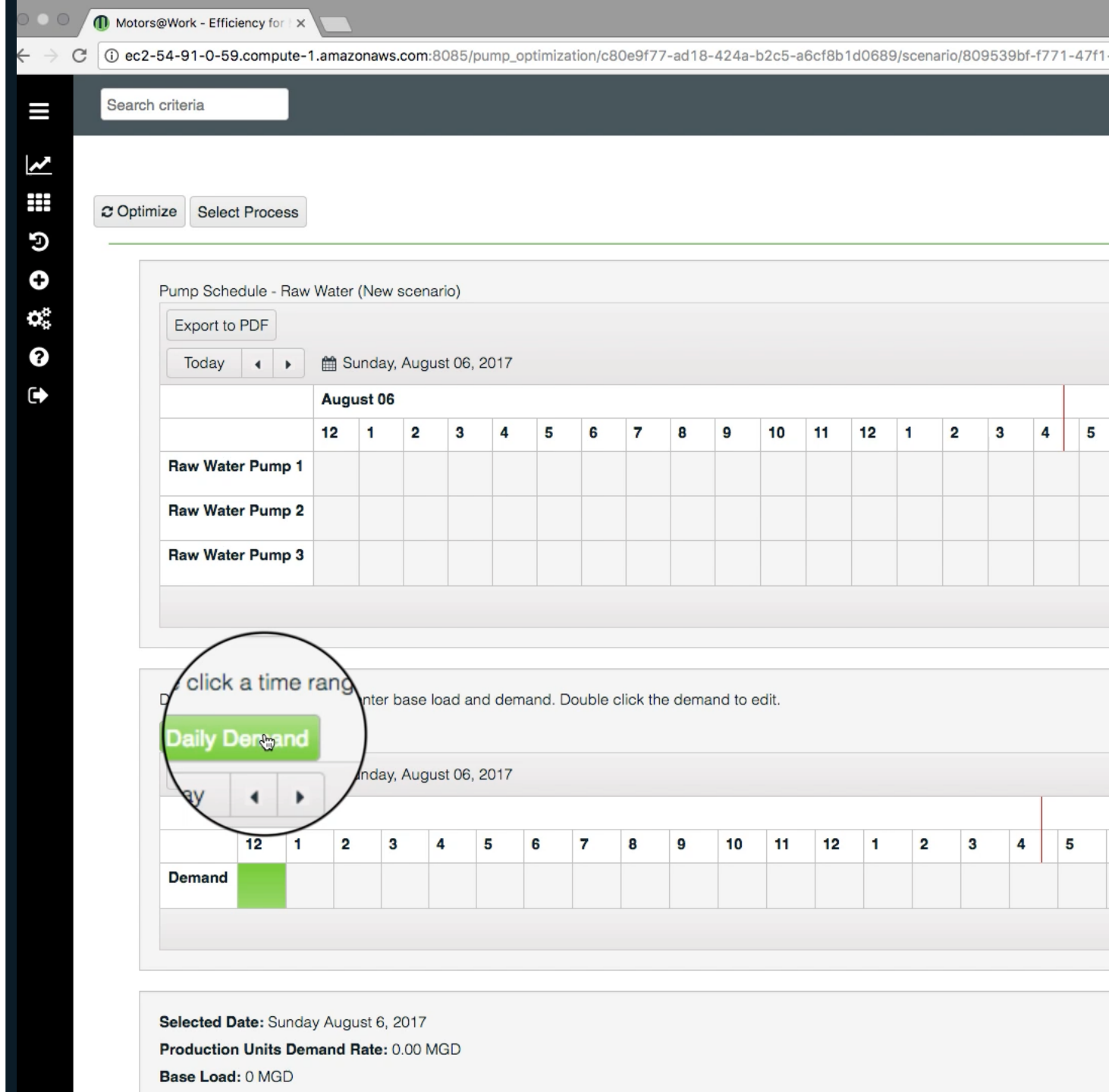
ADD DAILY DEMAND

TIP

Only follow the steps in the **ADD DAILY DEMAND** section if no forecast demand exists; if a forecast demand exists, follow the steps from the **EDIT DAILY DEMAND** section

1. Click the Add Daily Demand button



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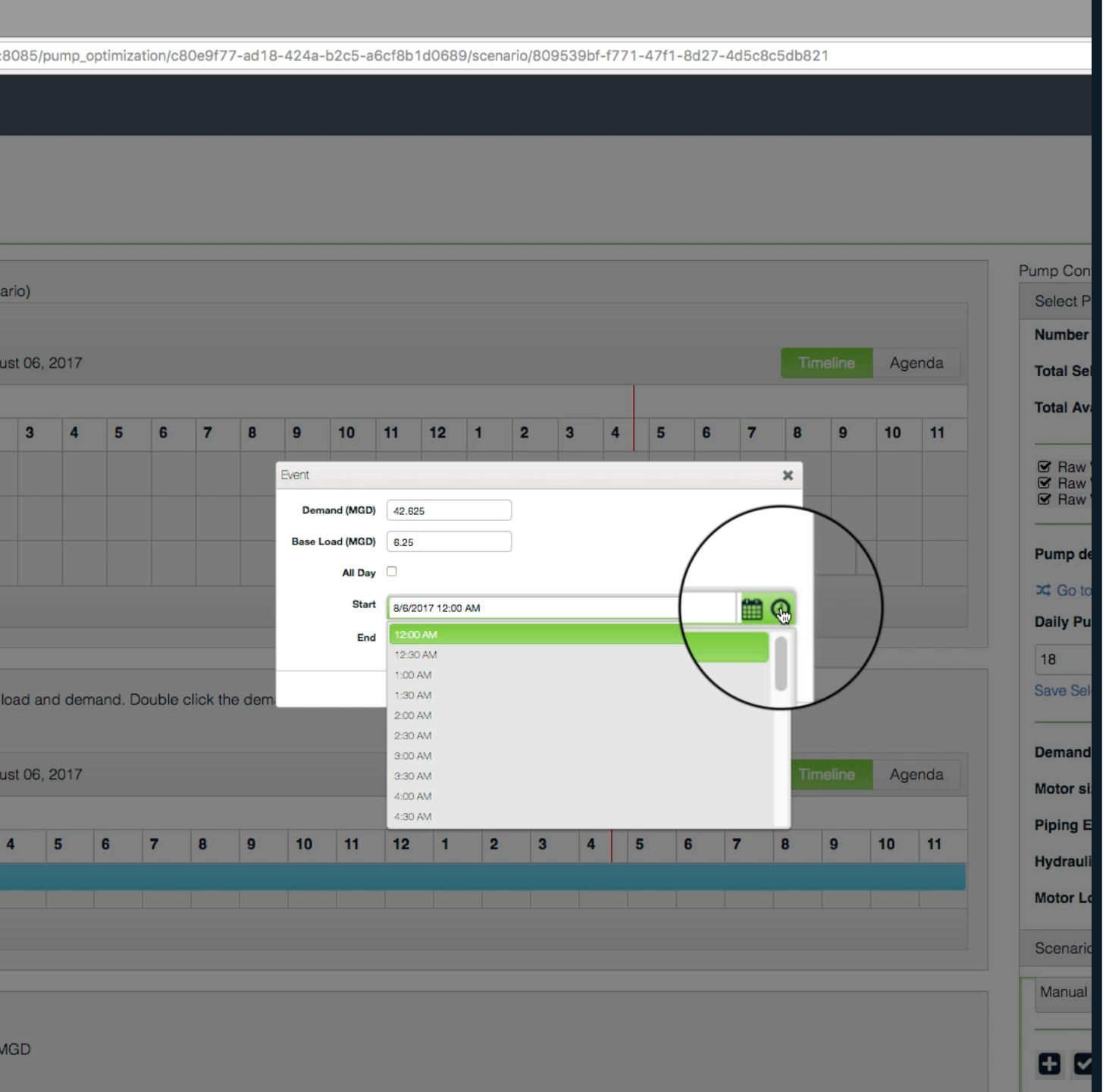
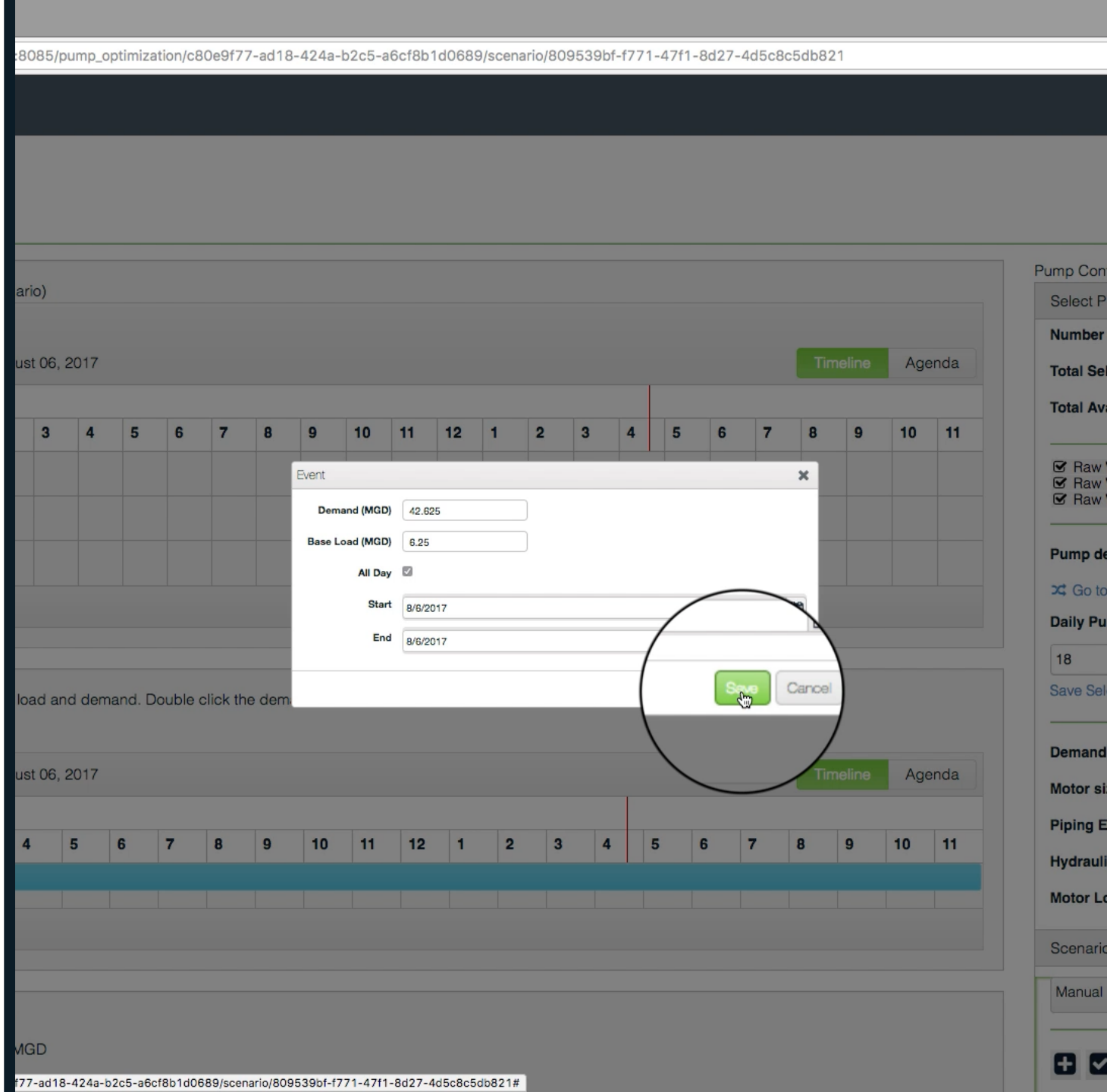


2. Enter total daily demand (pumpage) in the Demand field; enter any continuous flow requirements under Baseload

3. If this demand must be fulfilled in a set window, uncheck the All Day box & set the window's Start and End dates and times

4. Click Save



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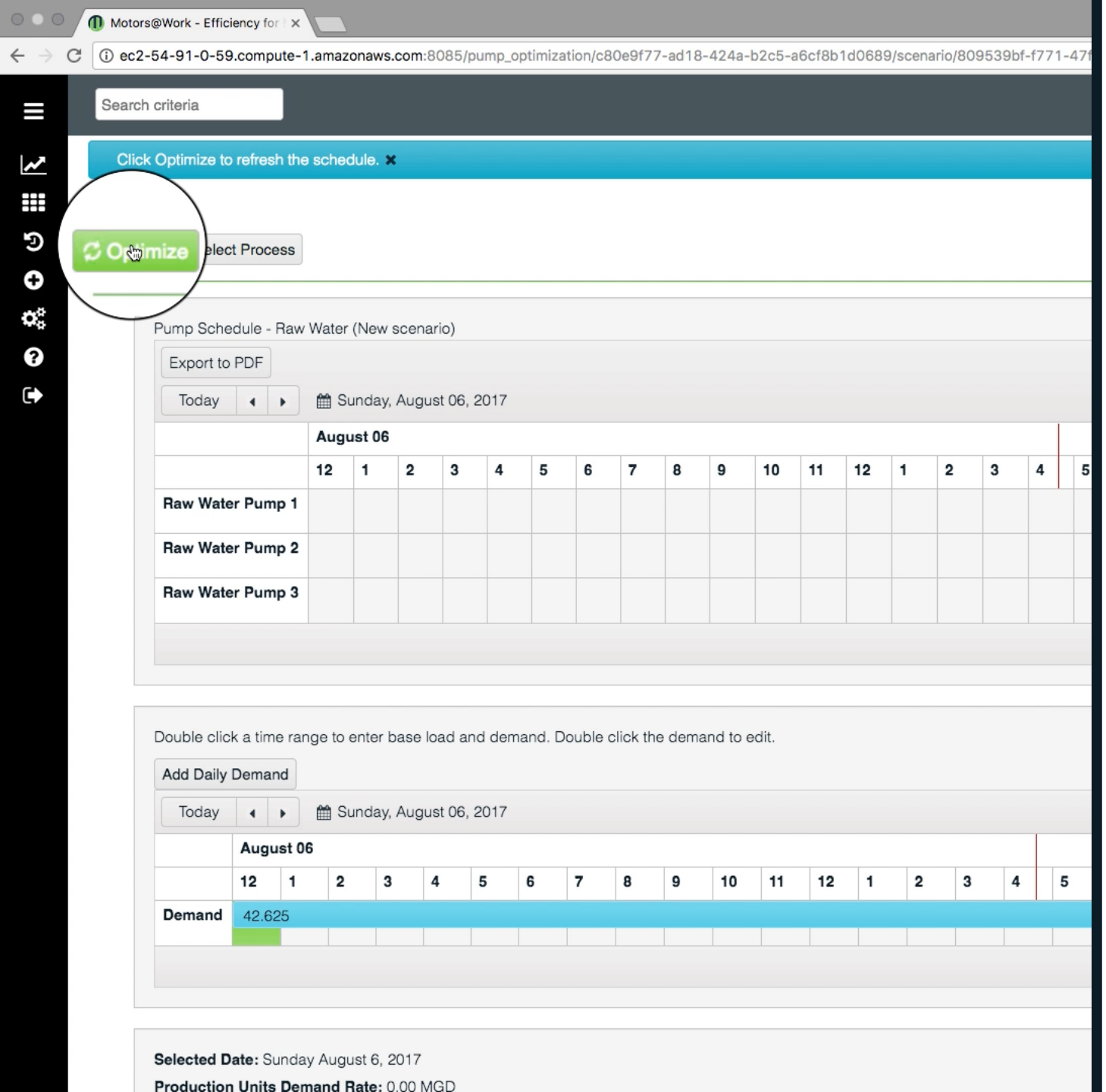

5. Click the Optimize button in the upper left corner to create your recommended pump schedule

TIP

To view your pump schedule as a series of pump start and stop events, click Agenda; to share your pump optimization recommendation, click Export to PDF

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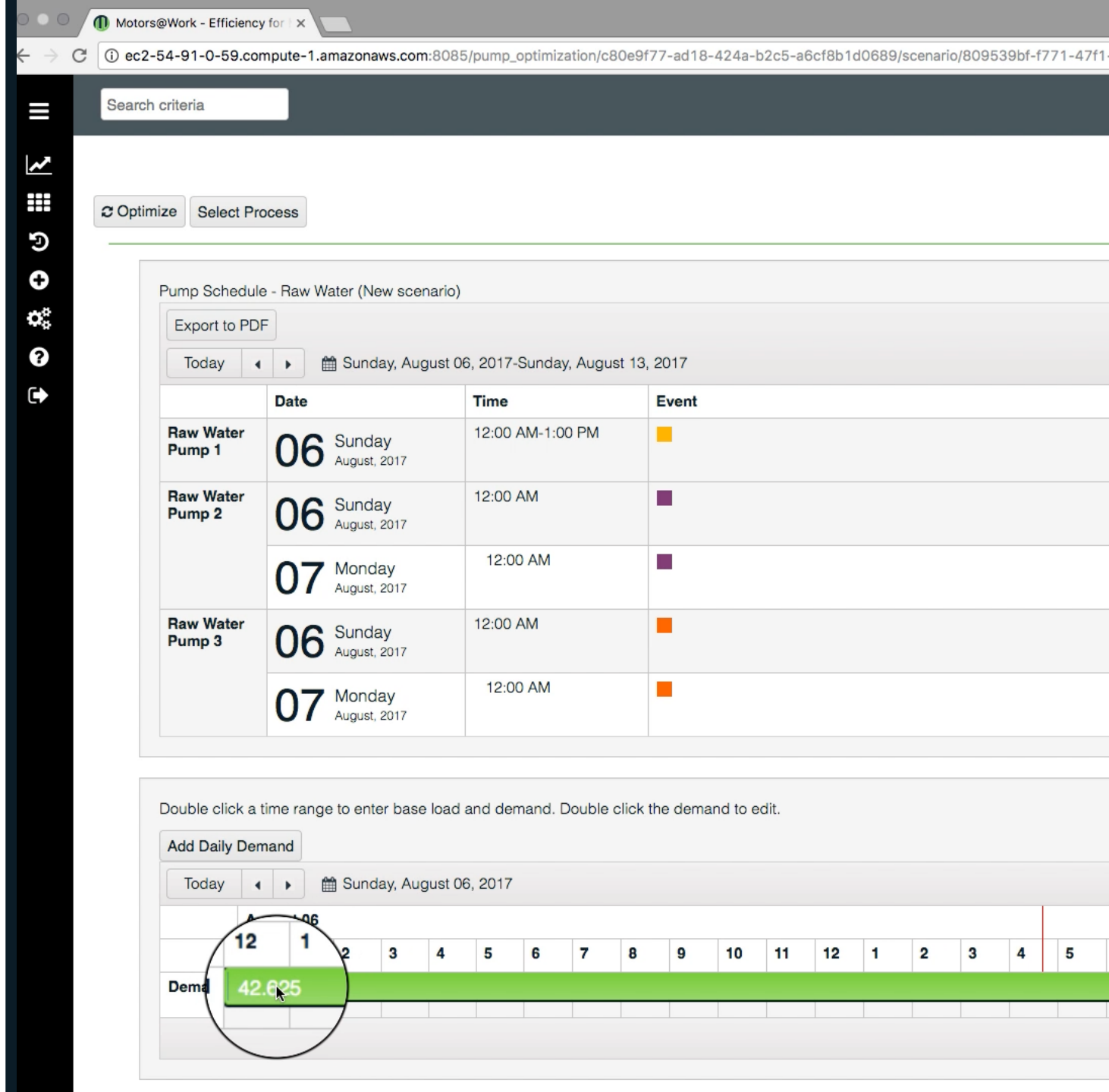
EDIT DAILY DEMAND

1. Double click on the number in the Demand Forecast bar



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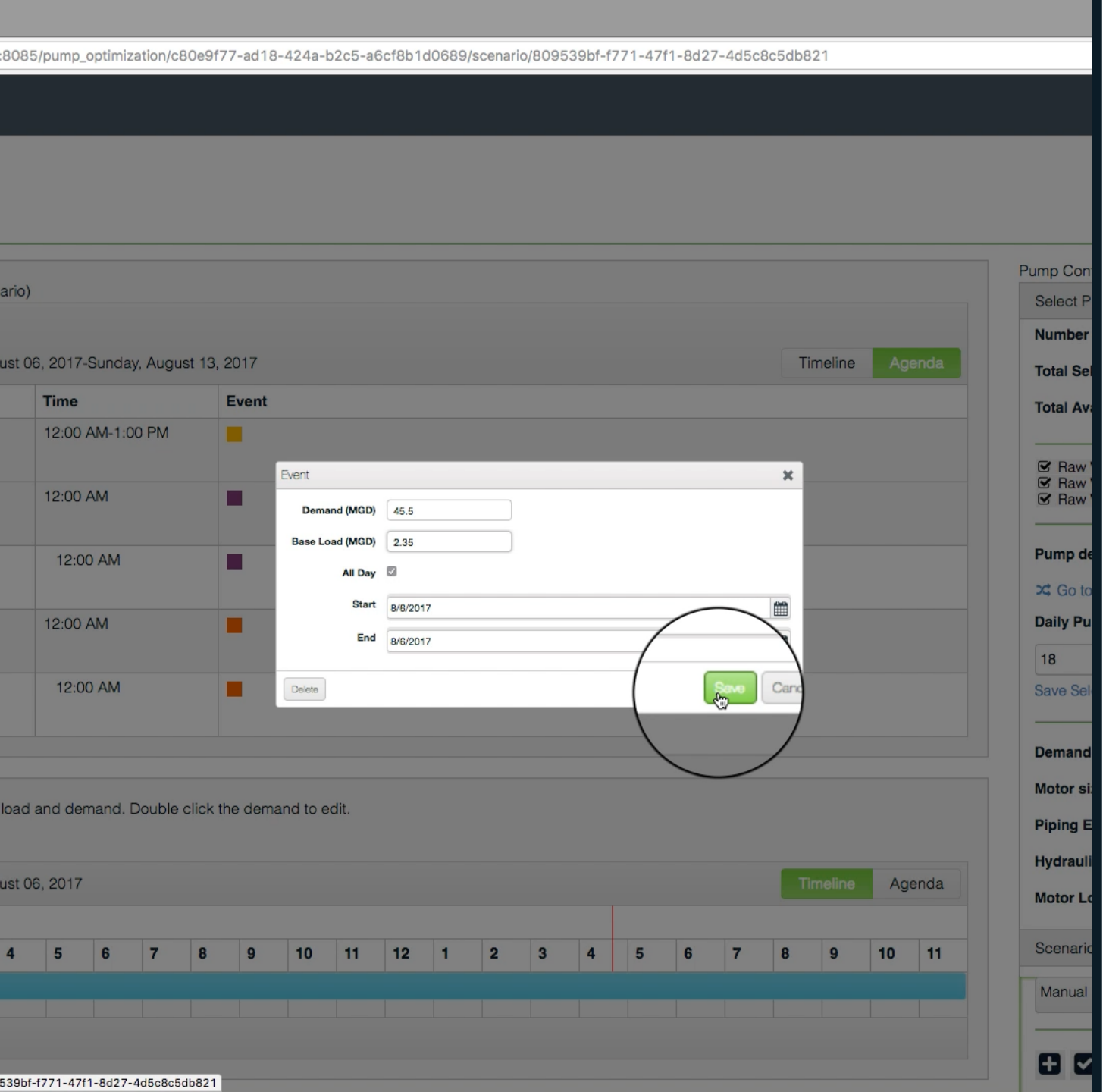
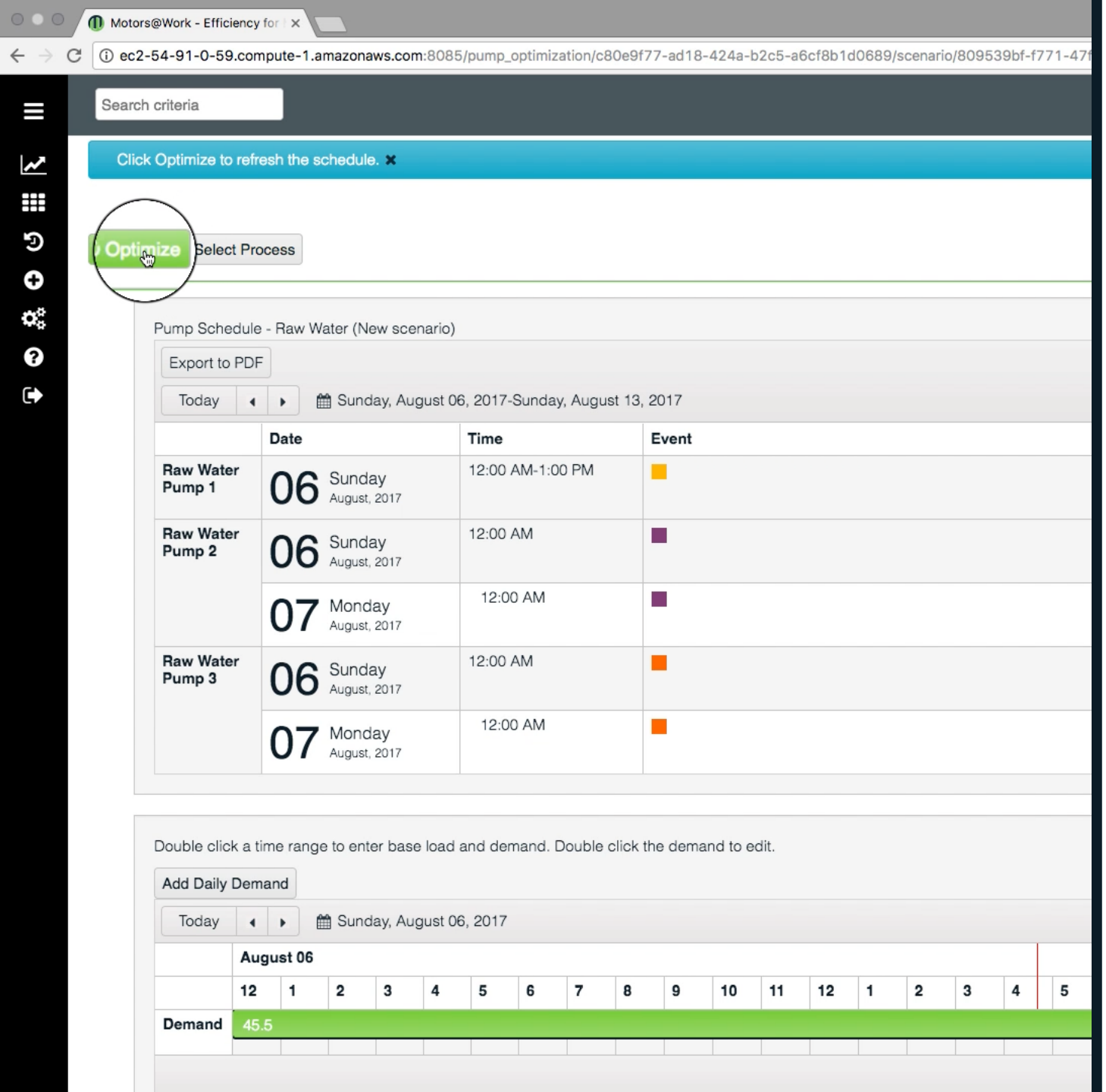


2. Modify the total daily demand (pumpage) in the Demand field; and/or any continuous flow requirements under Baseload

3. If this demand must be fulfilled in a set window, uncheck the All Day box & set the window's Start and End dates and times

4. Click Save



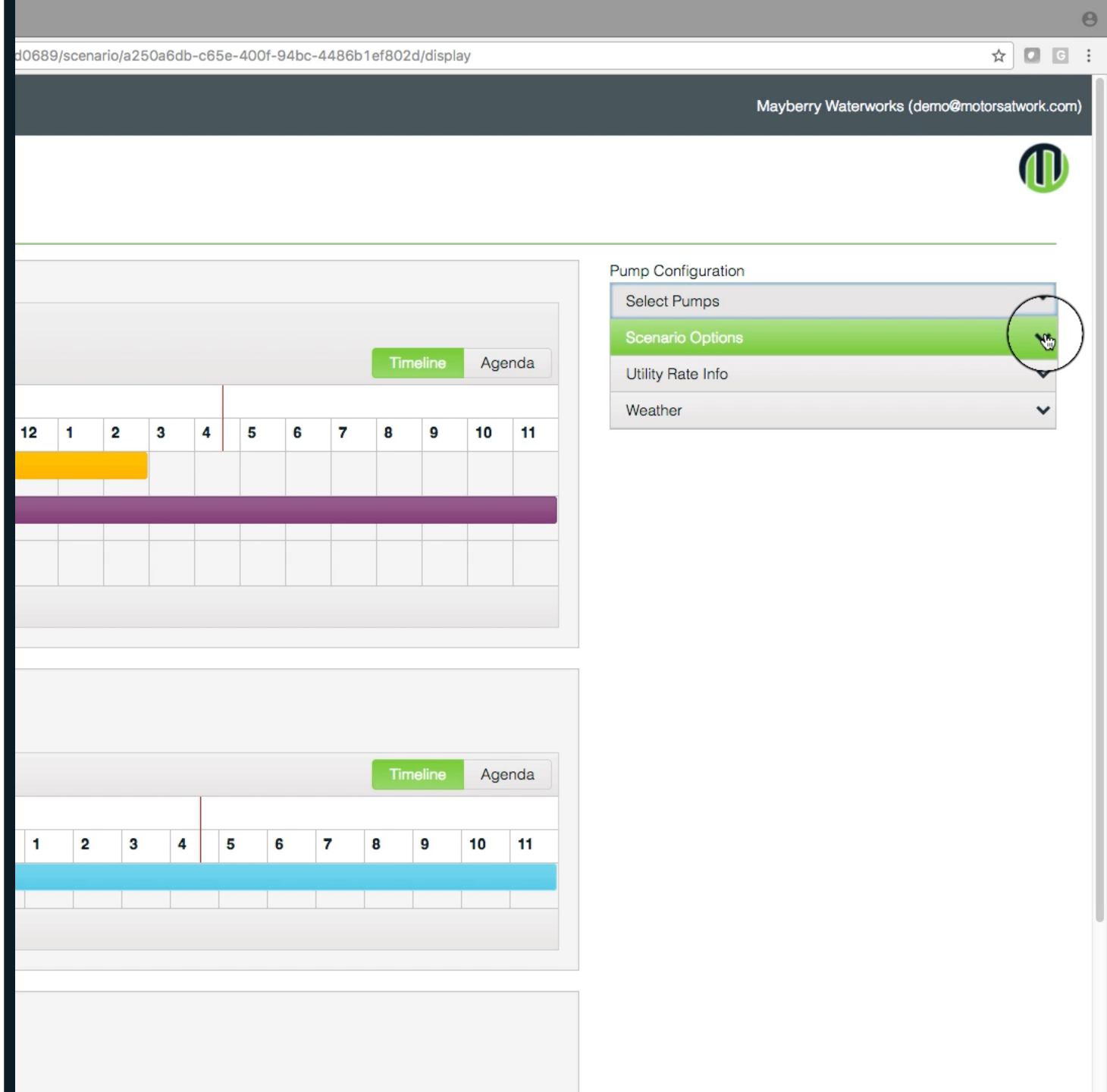
5. Click the Optimize button in the upper left corner to create your recommended pump schedule

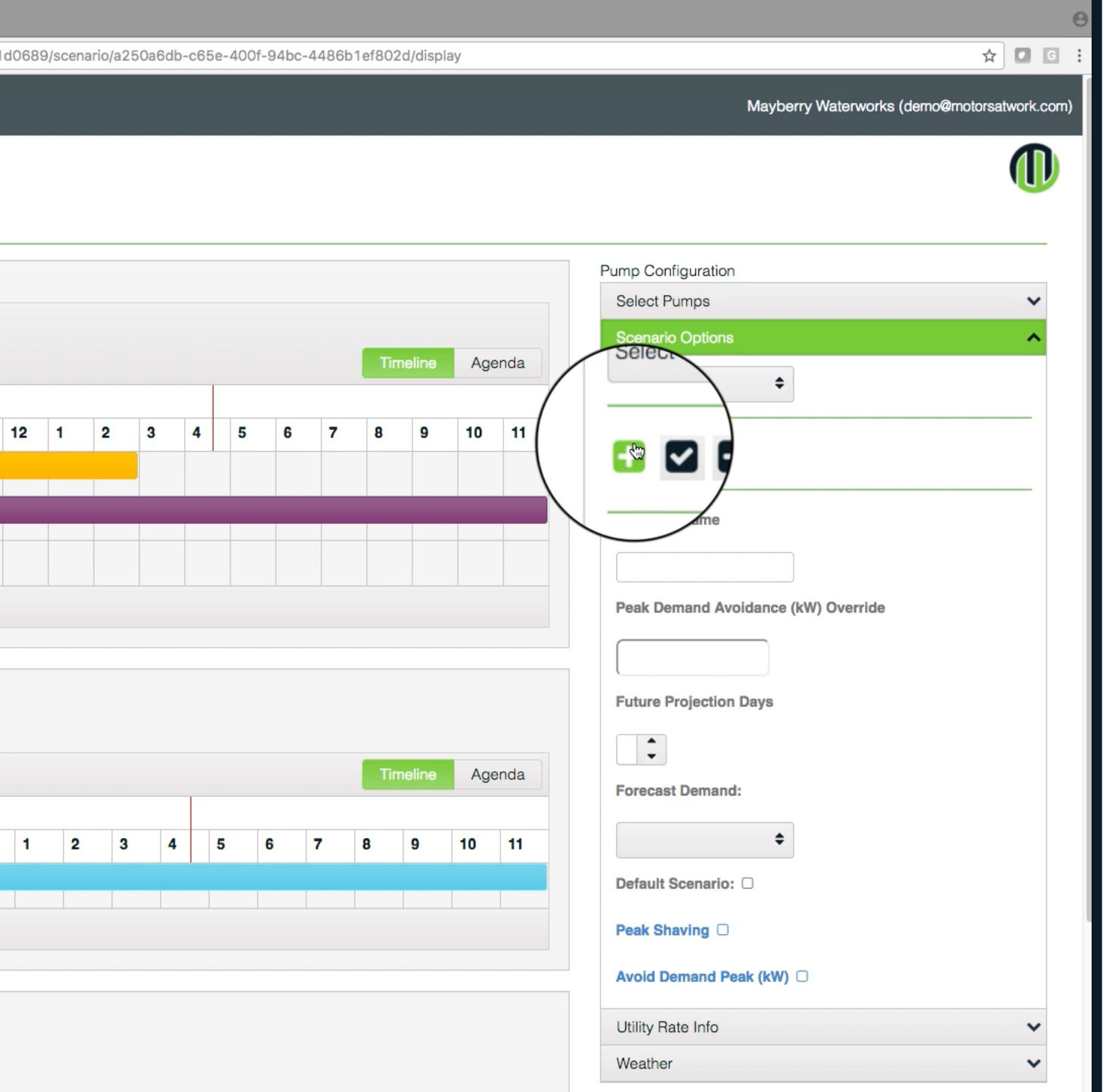
TIP

While Motors@Work will allow you to edit demand forecasted based on your weather & pump history, clicking Optimize will reset the scenario; to override the forecast and manually adjust demand, create a new scenario following the steps in the **ADD NEW SCENARIO** section

ADD A NEW SCENARIO

1. Click the ⌄ [caret] to the right of Scenario Options on the right side of the screen to expand the menu





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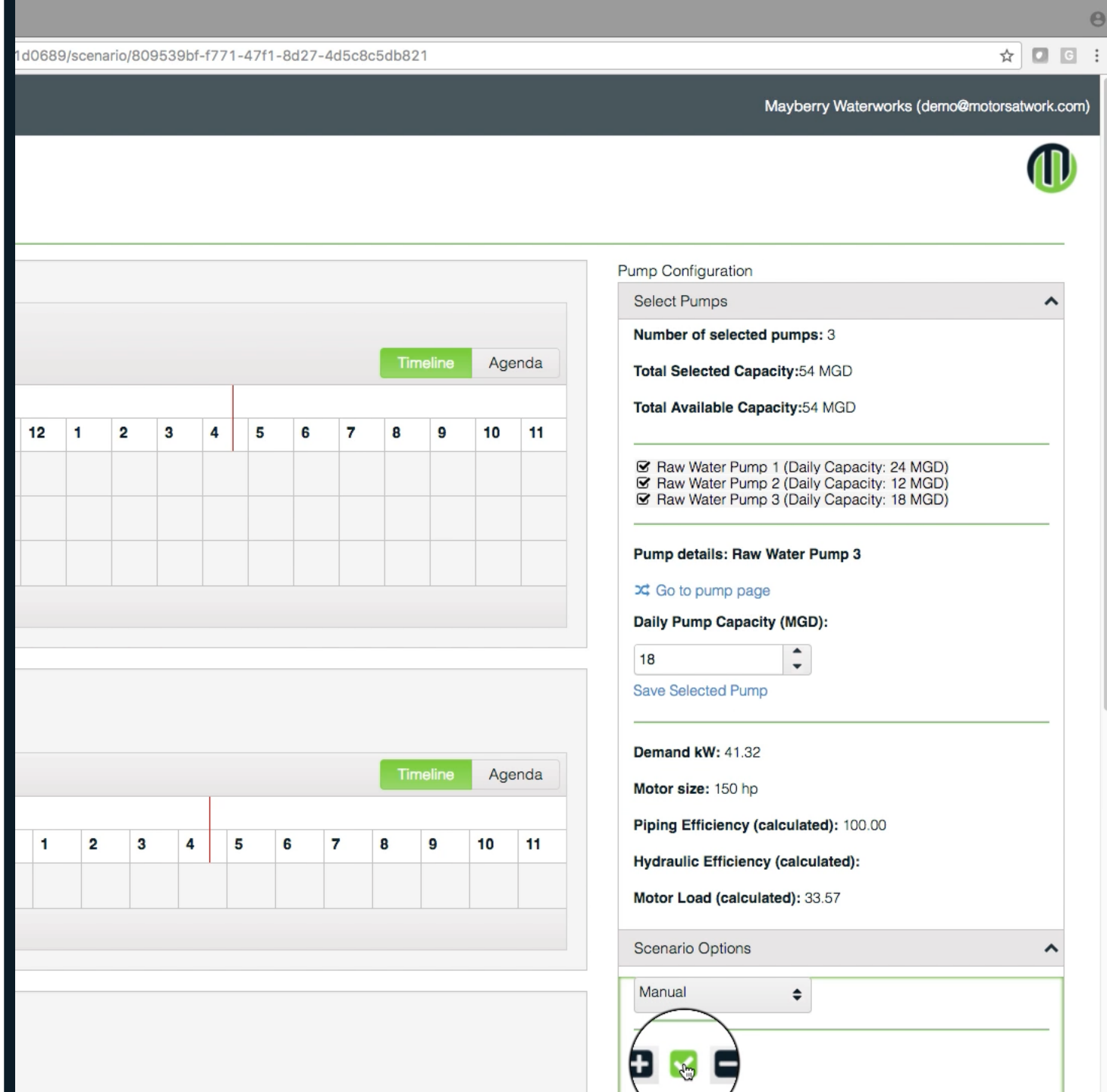
2. Click the ✚ [Add icon] below the Select Scenario (may also say Default Scenario) dropdown

3. Adjust the Peak Demand Avoidance, Forecast Projection Days, Forecast Demand, Peak Shaving, and Avoid Demand Peak settings

4. Follow the steps in the **ADJUST PUMP AVAILABILITY** and **ADD DAILY DEMAND** sections to choose which pumps to include in this analysis and add demand (pumpage)

5. Click the ☑ [Update icon] below the Scenario Name to save your changes



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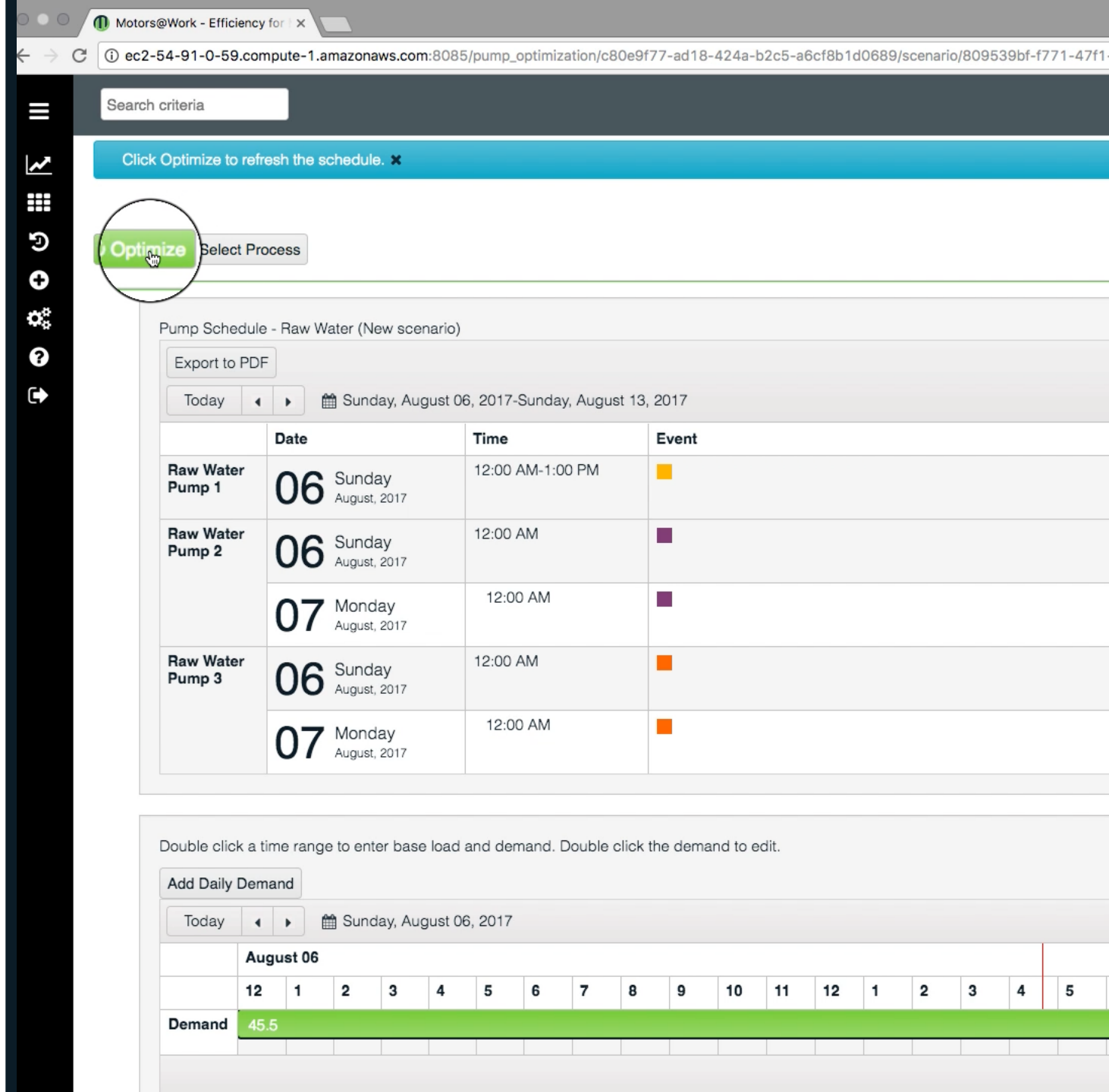
6. Click the Optimize button in the upper left corner to create your recommended pump schedule



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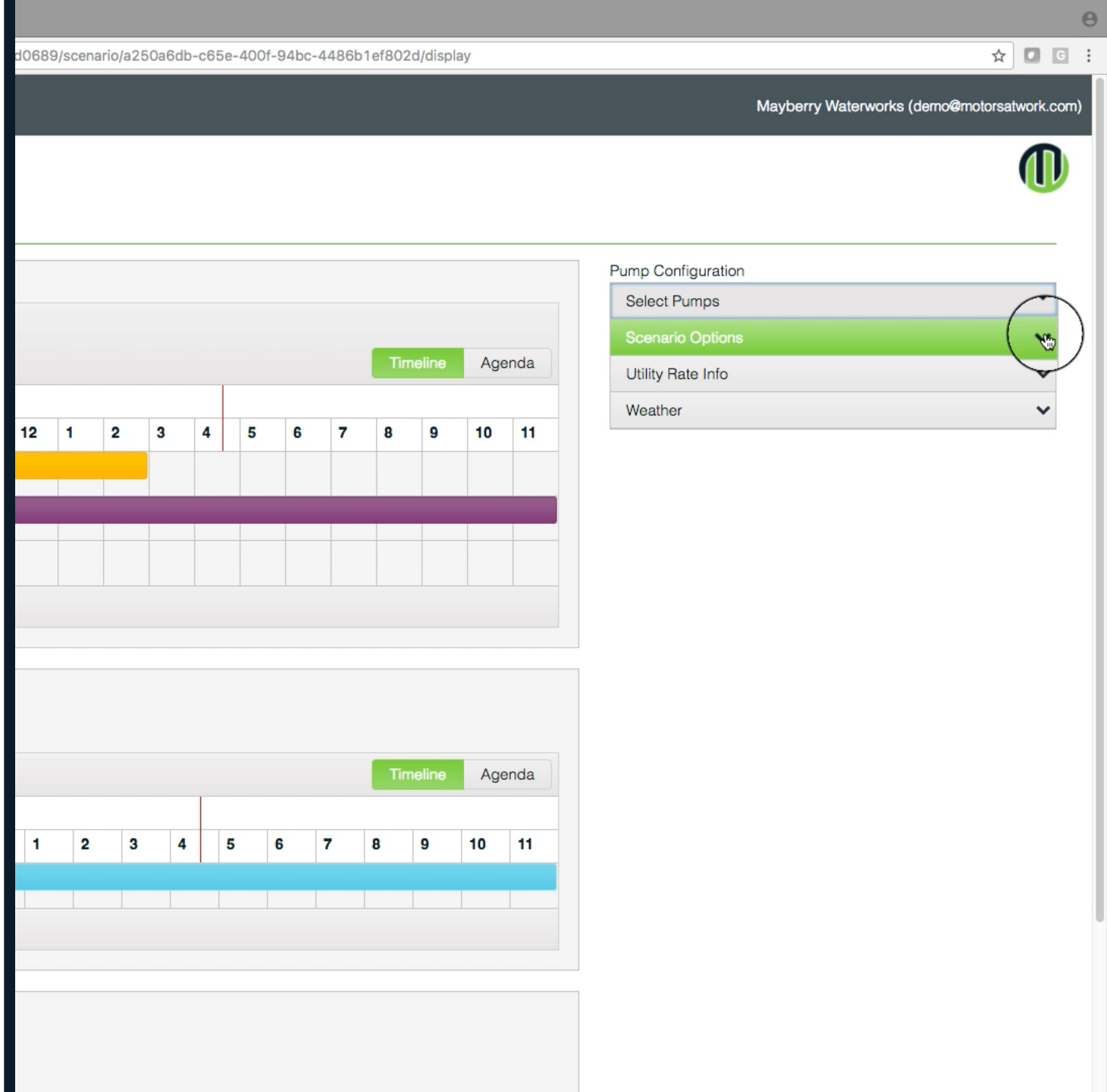
TIP

Create too many new scenarios? To delete an existing scenario, click the ⛔ [Remove icon] in the expanded Scenario menu

MODIFY AN EXISTING SCENARIO

1. Click the ⌄ [caret] to the right of Scenario Options on the right side of the screen to expand the menu



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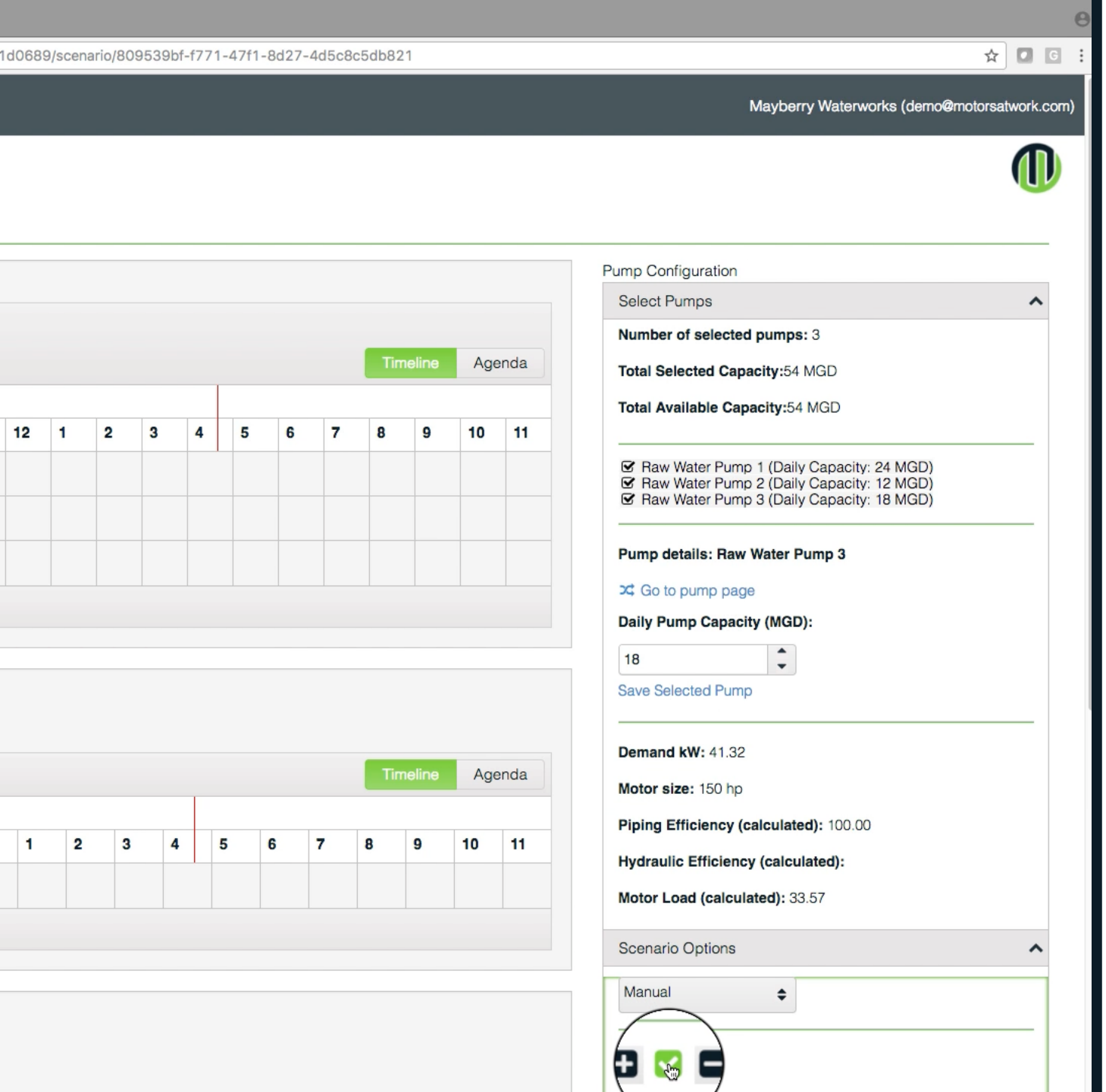


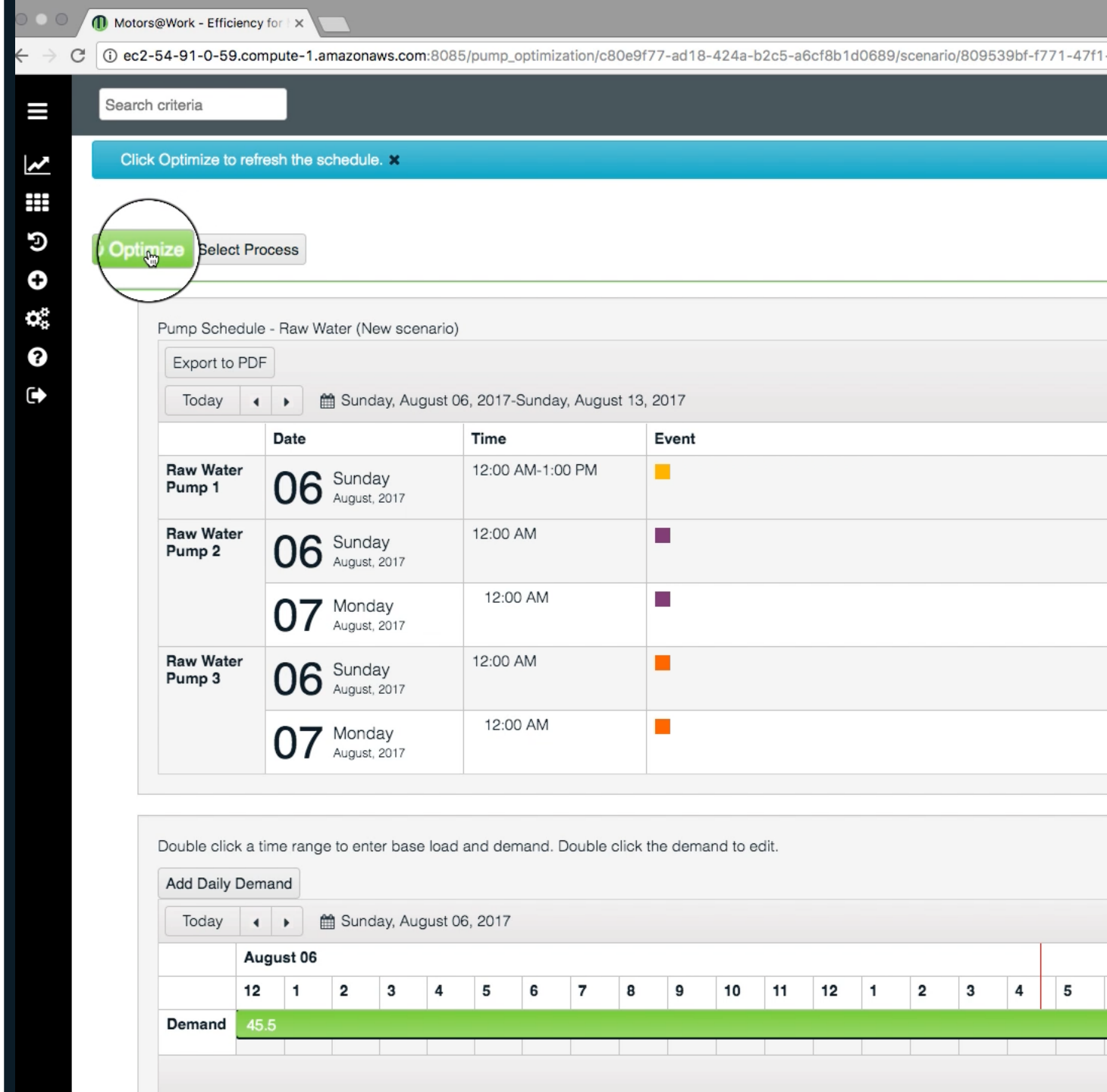
2. Click the Select Scenario dropdown and choose a scenario from the list

3. Modify this scenario's settings; follow steps under **ADJUST PUMP AVAILABILITY** & **EDIT DAILY DEMAND** if needed

4. Click the ☑ [Update icon] below the Scenario Name to save your changes

5. Follow the steps in the **ADJUST PUMP AVAILABILITY** and **ADD DAILY DEMAND** sections to choose which pumps to include in this analysis and add demand (pumpage)

6. Click the Optimize button in the upper left corner to create your recommended pump schedule



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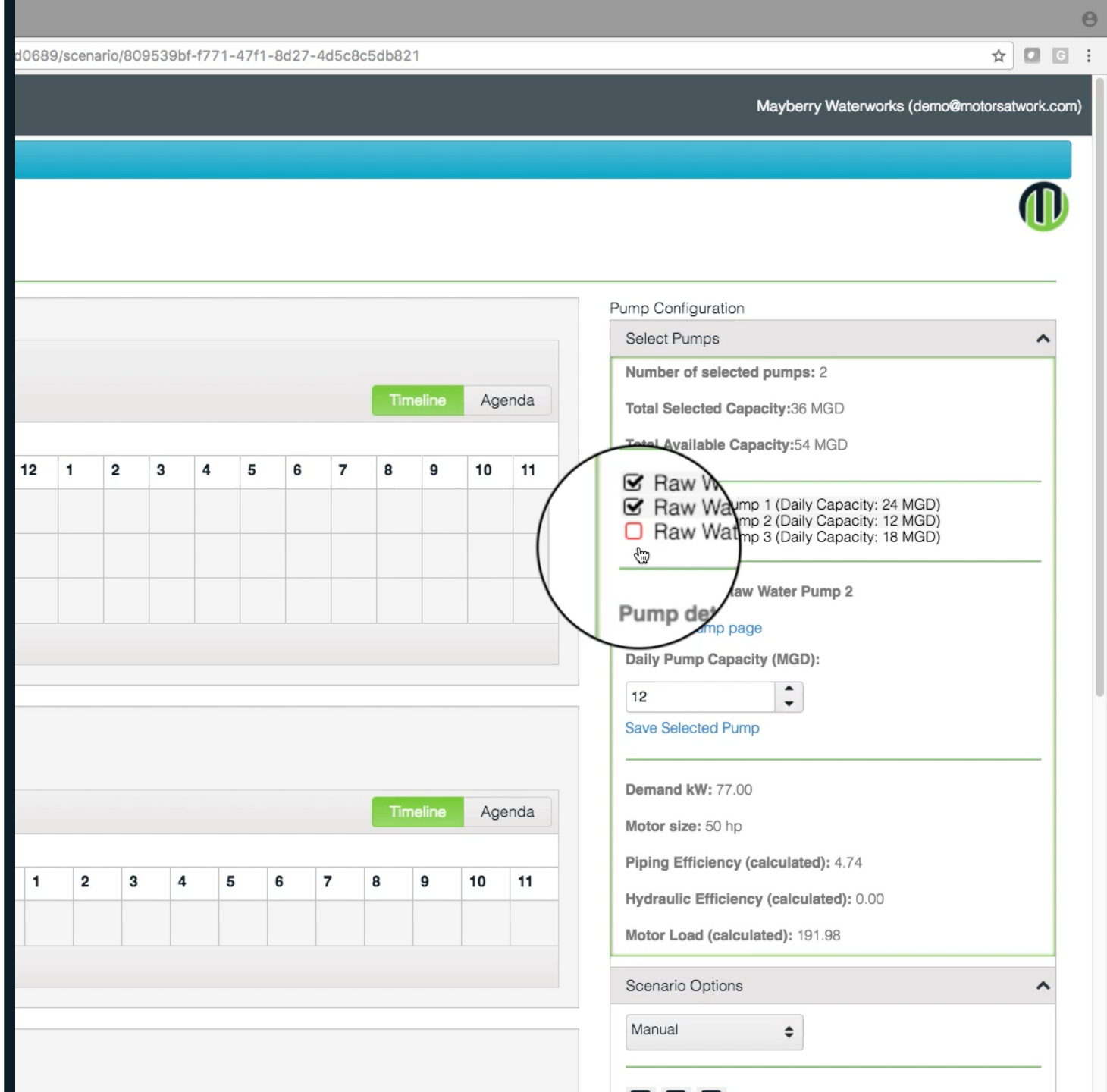
ADJUST PUMP AVAILABILITY

1. Click the ⌄ [caret] to the right of Select Pumps on the right side of the screen to expand the menu

2. Choose which pumps to include (check) or exclude (uncheck) from this scenario



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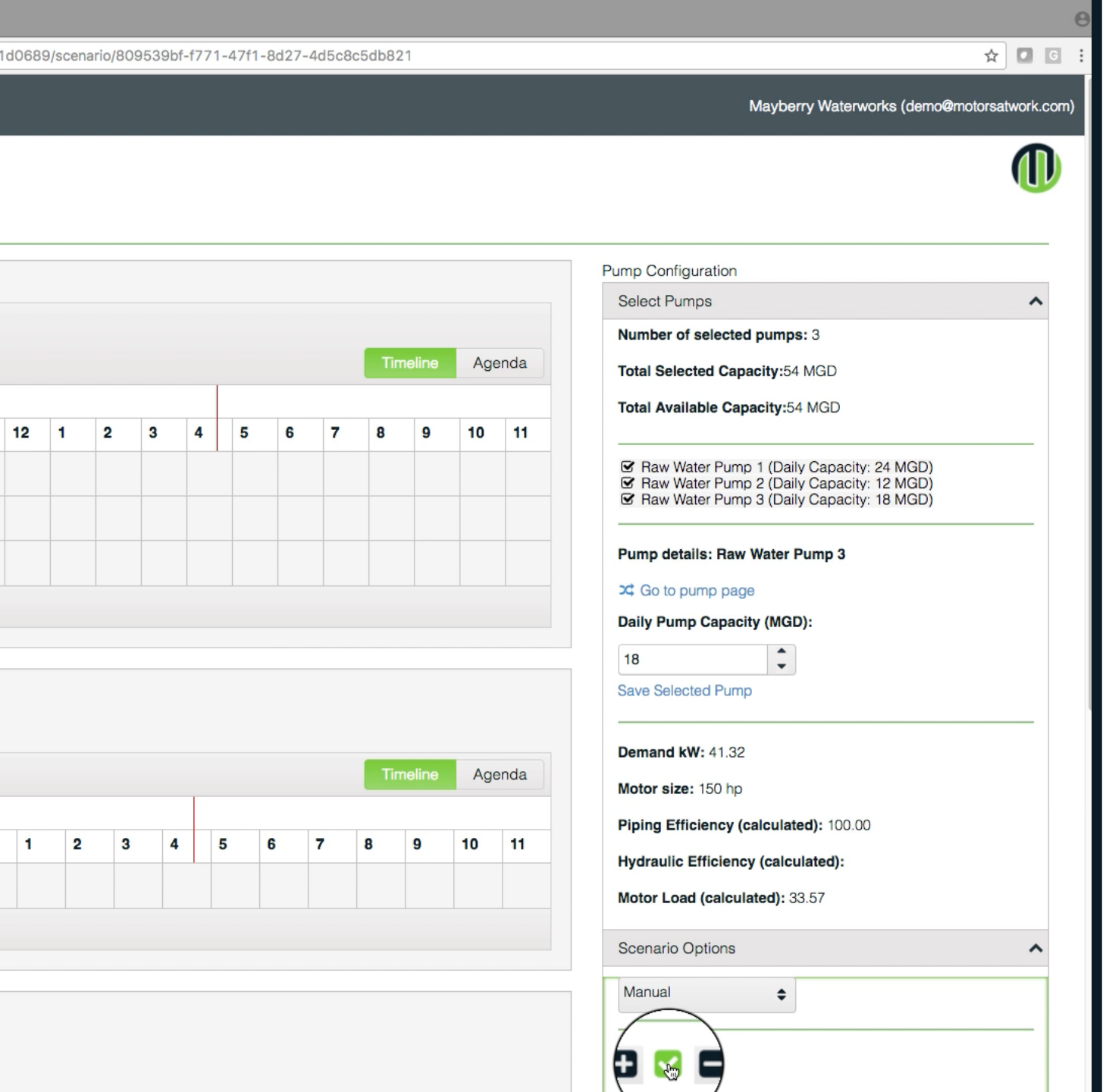

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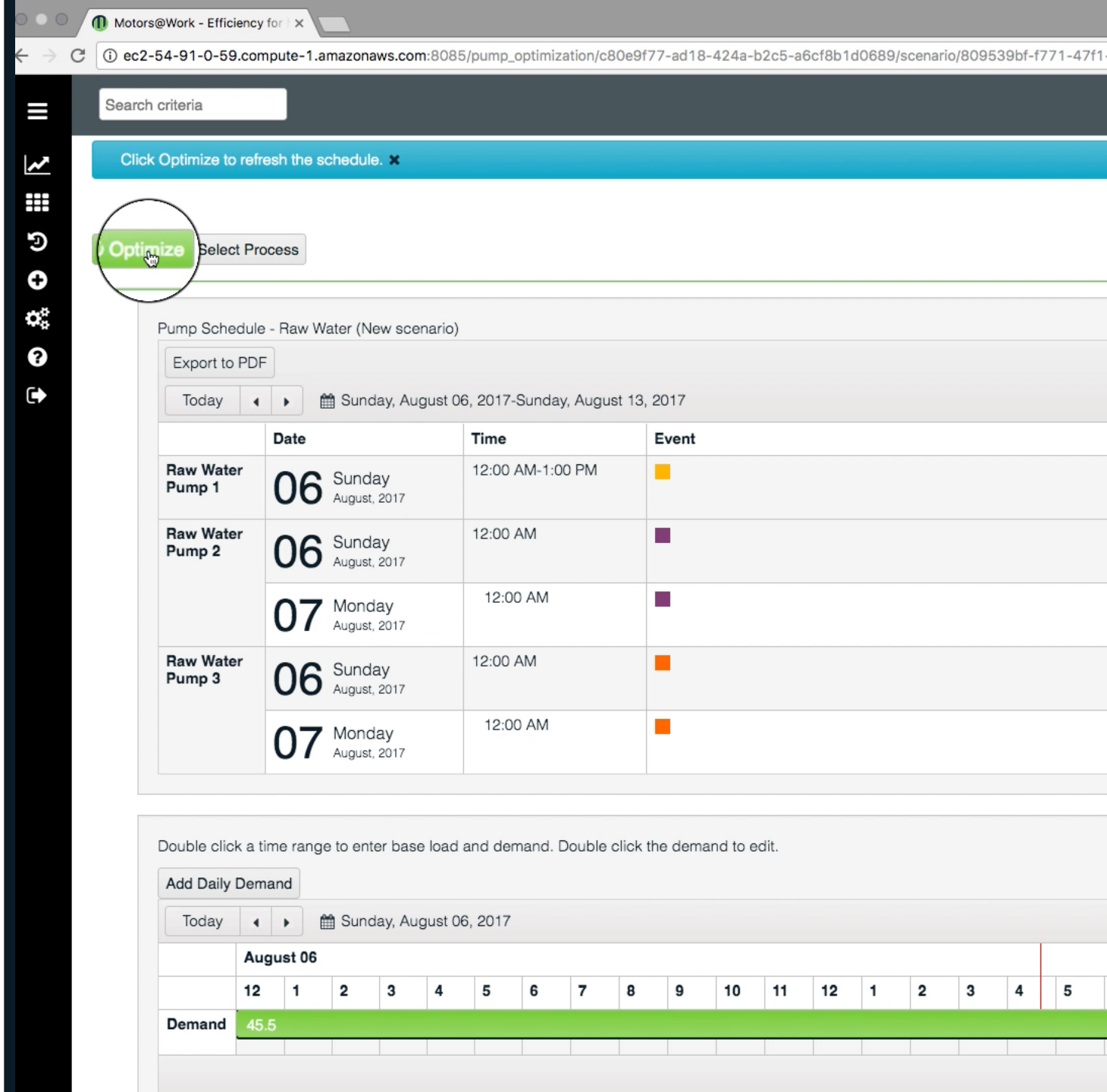

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Get an unexpected result?

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