

# Power Plants Lab Data Export Guide

## Aerial Robotics Virtual Lab

### PROCEDURE

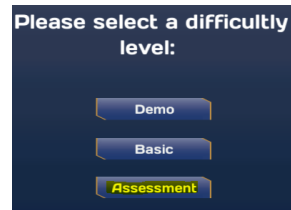
#### STEP 1

Then, launch the Aerial Robotics Virtual Lab application by double-clicking on the desktop shortcut.



#### STEP 2

Select "Assessment", then select "Labs" from the main menu.



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# Power Plants Lab Export Guide

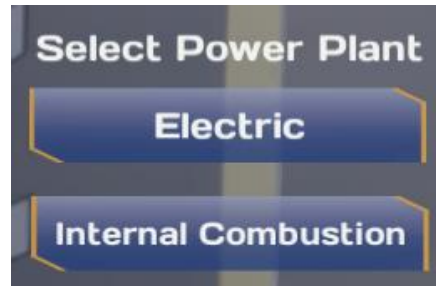
## STEP 3

Select "Power Plants" from the Labs menu.



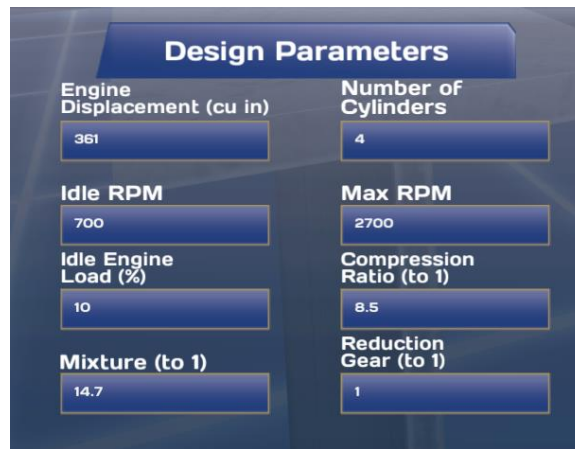
## STEP 4

From the "Select Power Plant" menu, select between "Electric" and "Internal Combustion" power plants.



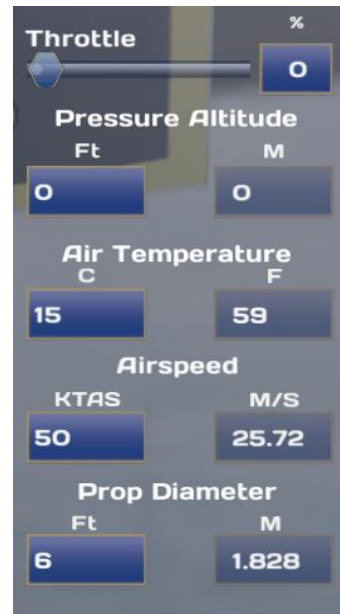
## STEP 5

Set the design parameters of the selected power plant to desired values.



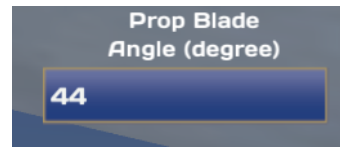
## STEP 6

Set the values for throttle, pressure altitude, air temperature, airspeed and prop diameter to required values. Additionally, if your power plant is electric, you may also set a value for the prop blade angle.



The screenshot shows a control panel with the following settings:

Parameter	Value
Throttle (%)	0
Pressure Altitude (Ft)	0
Pressure Altitude (M)	0
Air Temperature (C)	15
Air Temperature (F)	59
Airspeed (KTAS)	50
Airspeed (M/S)	25.72
Prop Diameter (Ft)	6
Prop Diameter (M)	1.828



The screenshot shows the Prop Blade Angle (degree) setting with a value of 44.

Parameter	Value
Prop Blade Angle (degree)	44

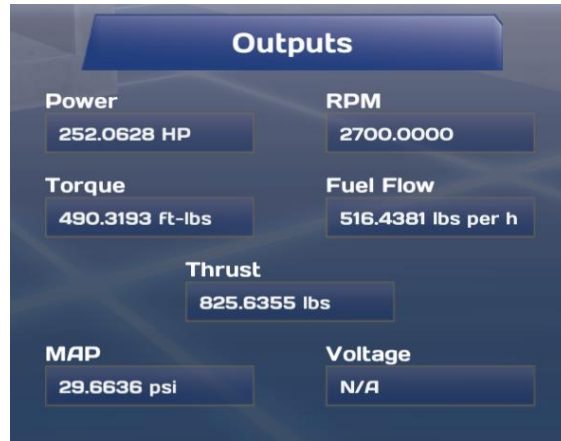
## STEP 7

Click on “Update Outputs” to apply the settings you made in step 6 and 7.



## STEP 8

Observe the outputs for your design parameters and settings.



## STEP 9

After your experiment, click on the "Export" button to export your data to a .csv file



## STEP 10

Select the folder where you want to save. Give an appropriate name to the file and click "Save"

