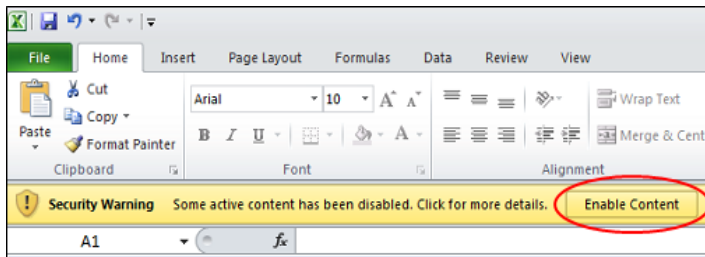


# LADWP Zero By Design Express Track

## Initiating the Workbook



When first opening the LADWP ZBD Workbook, you must “Enable Content”. Otherwise, the LADWP ZBD workbook will not work as intended.

## Project Information Sheet

The first sheet that will be available to you is the “Project Information” sheet. In this sheet, users will first have to provide owner information, design team leader information, if applicable, and project information.

LA DWP ZERO2 BY DESIGN		LADWP ZBD Program Workbook	
		Project Information	
		V.11.05.2020	
<b>Owner Information</b>			
Account Name	Account Number		
Address	City	State	Zip Code
Owner Contact's Name	Owner Contact's Title		
Office Phone Number	Extension	Mobile Direct	Email Address
<b>Design Team Leader Information</b>			
Contractor Company or Firm			
Address	City	State	Zip Code
Contact Name	Contact's Title		
Office Phone Number	Extension	Mobile Direct	Email Address
<b>Project Information</b>			
Project Name			
Project Site Address	City	State	Zip Code*
Building Type*	Square Footage of Conditioned Space	Age	# Floors

**Note:** It is imperative that the project site address, zip code, and project building type are entered. If not, you will not be able to proceed.

To view a list of the Building Type abbreviations and definitions, click the Building Type Index button.



# Activating the Estimator Sheet

After providing the basic information, click the “Express” button and the Navigation box will appear.



LA DWP ZERO<sub>2</sub> BY DESIGN LADWP ZBD Program Workbook

Navigation Express Summary

**Navigation**

Express Express Summary

Building Type Index Equipment Program Qualifications

To view what measures are eligible for rebate, click the “Measure Index” button in the Navigation window to view a listing of eligible equipment.



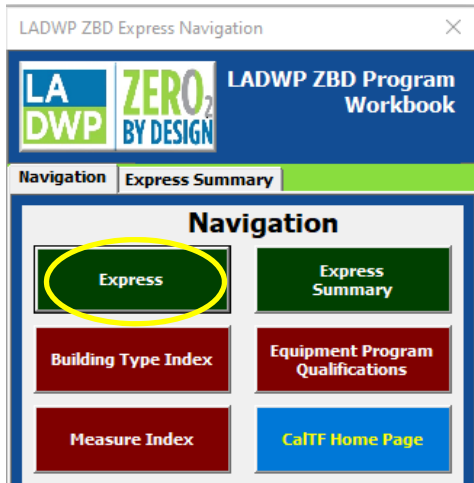
#	Measure Name	Measure Application	Description <i>(Paraphrased from the CalTF eTRM)</i>	End Use	Sector
1	SWHC005 Water Cooled Chiller	Centrifugal w/ Conventional VSD	a variable speed water-cooled chiller for use in nonresidential buildings that exceeds the minimum efficiency requirements set forth by the California 2019 Building Energy Efficiency Standards (Title 24) in both full load and integrated part load conditions.	HVAC - Cooling	Commercial
2	SWHC005 Water Cooled Chiller	Variable Speed Screw	A variable speed water-cooled screw chiller for use in nonresidential buildings that exceeds the minimum efficiency requirements set forth by the California 2019 Building Energy Efficiency Standards (Title 24) in both full load and integrated part load conditions.	HVAC - Cooling	Commercial
3	SWHC008 Variable Speed Drive for a Central Plant System	Condenser Water Pump	Installation of a variable speed drive (VSD) on a condenser water pump (CWP) in a water-cooled central plant with existing condition not provided with a VSD and controls.	HVAC - Cooling	Commercial

To view equipment requirements, click the “Equipment Program Qualifications” button in the Navigation window.



Measure Name	Measure Offering	Efficiency			Measure Eligibility and Qualifiers <i>(Paraphrased from the CalTF eTRM)</i>	Savings Method Base Reference
		Eff Type 1	Min Eff 2	Eff Type 2		
SWHC005 Water Cooled Chiller	Centrifugal w/ Conventional VSD	Full Load (kW/Ton)	0.44	IPLV (kW/Ton)	<b>ELIGIBLE PRODUCTS</b> Units are required to meet both full load and integrated part load efficiency requirements specified in the Measure Case Description.  <b>ELIGIBLE BUILDING TYPES AND VINTAGES</b> This measure is applicable for all new and existing nonresidential buildings of any vintage.  <b>ELIGIBLE CLIMATE ZONES</b> This measure is applicable in all California climate zones.  <b>Program Exclusions</b> All measures related to constant speed screw, constant speed centrifugal, and frictionless chillers are excluded due to the stringency of the tiers specified for the 2020 update of the Database of Energy Efficient Resources (DEER) and equipment availability in the market.	<a href="https://www.ca.gov/measure/SW01/">https://www.ca.gov/measure/SW01/</a>
		Full Load (kW/Ton)	0.4	IPLV (kW/Ton)		
		Full Load (kW/Ton)	0.39	IPLV (kW/Ton)		
		Full Load (kW/Ton)	0.37	IPLV (kW/Ton)		
	Variable Speed Screw	Full Load (kW/Ton)	0.38	IPLV (kW/Ton)		
		Full Load (kW/Ton)	0.5	IPLV (kW/Ton)		
		Full Load (kW/Ton)	0.49	IPLV (kW/Ton)		
		Full Load (kW/Ton)	0.44	IPLV (kW/Ton)		
		Full Load (kW/Ton)	0.41	IPLV (kW/Ton)		
		Full Load (kW/Ton)	0.38	IPLV (kW/Ton)		
				<b>ELIGIBLE PRODUCTS</b> All new variable speed drives (VSDs) and motor equipment must be UL Listed and specifically rated for the application.  Constant speed Condenser Water Pump (CWP) and Chilled Water Pumps (CHWP) not already equipped with a variable speed drive (VSD) are		

# Activating the Estimator Sheet



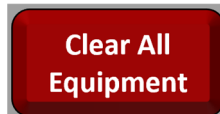
Click the "Express" button in the Navigation box to initiate the Estimator sheet to enter your equipment information.

# Completing the Estimator Sheet

LA DWP		ZERO <sub>2</sub> BY DESIGN		LADWP ZBD Program Workbook		Express	
						V.12.21.2020	
<b>Customer Information</b>							
Project Name				Sample Project			
Project Site Address		City		Climate Zone		Total Estimated Savings	
Sample Address		Los Angeles, CA 90013		9		Deemed kW 53.00	
						Deemed kWh 101,103	
						Incentive \$30,330.90	
<b>ZBD Measure No. 1</b> Measure Qualifies (Savings based on New Construction (NEW) deemed values)							
Condition		Proposed		Install Type		New Construction (NEW)	
Measure Name		SWHC005 Water Cooled Chiller		Equipment Cost		\$1,000,000.00	
Measure Offering		Centrifugal w/ Conventional VSD		Estimated Savings			
Qty		1		Deemed kW		12	
Equipment Size		600.000		Deemed kWh		26,886	
Efficiency 1		0.4		Measure Install Year		2021	
Efficiency 2		0.3		Incentive		\$8,065.80	
Model   Serial Number							
<b>ZBD Measure No. 2</b> Measure Qualifies (Savings based on New Construction (NEW) deemed values)							
Condition		Proposed		Install Type		New Construction (NEW)	
Measure Name		SWHC020 Air Cooled Chiller		Equipment Cost		\$500,000.00	
Measure Offering		Air Cooled Constant Speed Screw Chiller		Estimated Savings			
Qty		1		Deemed kW		41	
Equipment Size		350.000		Deemed kWh		74,217	
Efficiency 1		13		Measure Install Year		2021	
Efficiency 2		14		Incentive		\$22,265.10	
Model   Serial Number							

Enter details for proposed equipment and equipment cost. Repeat for each unique retrofit.

Click "Clear Equipment" to delete entries.



# Estimator Summary



Click the “Express Summary” tab to initiate the Project Summary.

Measure / End Use	Annual kWh Savings	Coincident Peak (kW)	Incentive (\$)	\$/kWh	Measure Install Year	End Use	EUL
<b>End Use Summary</b>							
1 Appliance & Plug Loads	0.00	0.00	\$0.00	\$0.10		Appliance & Plug Loads	
2 Building Envelope	0.00	0.00	\$0.00	\$0.30		Building Envelope	
3 Commercial Refrigeration	0.00	0.00	\$0.00	\$0.30		Commercial Refrigeration	
4 Food Service	0.00	0.00	\$0.00	\$0.15		Food Service	
5 HVAC - Cooling	101,103.00	23.48	\$30,330.90	\$0.30	2021	HVAC - Cooling	20.00
6 HVAC - Heating	0.00	0.00	\$0.00	\$0.30		HVAC - Heating	
7 HVAC - Heat Pump	0.00	0.00	\$0.00	\$0.30		HVAC - Heat Pump	
8 Lighting - Indoor	0.00	0.00	\$0.00	\$0.15		Lighting - Indoor	
9 Lighting - Outdoor	0.00	0.00	\$0.00	\$0.20		Lighting - Outdoor	
10 Process	0.00	0.00	\$0.00	\$0.15		Process	
11 Service & Domestic Hot Water	0.00	0.00	\$0.00	\$0.20		Service & Domestic Hot Water	
<b>Measure Summary</b>							
1 SWHC005 Water Cooled Chiller - Centrifugal w/ Conventional VSD	26,886.00	6.24	\$8,065.80	\$0.30	2021	HVAC - Cooling	20.00
2 SWHC020 Air Cooled Chiller - Air Cooled Constant Speed Screw Chiller	74,217.00	17.23	\$22,265.10	\$0.30	2021	HVAC - Cooling	20.00

Here you will be able to view the estimated energy savings and incentive amount for your project.

***Please note this estimate is not guaranteed and may be adjusted based on post-installation verification and post trend data verification, and may also be subject to change, if any project-related information is found to be inaccurate, incomplete, or if the project scope changes at any time before the final project review and incentive payment is made by LADWP.***