



DBE Outreach Event

Champaign-Urbana Mass Transit District

April 30, 2019

Agenda

1. Introduction of team members and roles
2. Purpose and project overview
3. Project construction scope
4. DBE methodology and goal
5. Anticipated schedule
6. Resources
7. Feedback and questions



Welcome

The Champaign-Urbana Mass Transit District (MTD) operates public transit service in the cities of Champaign and Urbana, the Village of Savoy, and on the University of Illinois campus. MTD has a fleet of 111 buses and a full-service maintenance facility located in Urbana.

- Champaign-Urbana MTD
 - Facilities Director: Kirk Kirkland
 - Maintenance Director: Eric Broga
 - Administrative Project Manager: Jane Sullivan
 - DBE Liaison Officer: Brenda Eilbracht
- DBE Consultant
 - Fred Coleman
- Design and Engineering
 - Center for Transportation and the Environment
 - Fiedler Group



Hydrogen Fuel Cell Project

Component A: Hydrogen Gas Detection System and Facility Modifications

Component B: Electrolysis Hydrogen Fueling Station



Component A: Hydrogen Gas Detection System and Facility Modifications

Modify MTD's existing Maintenance Facility to allow the buses to be housed in the facility. Facility modifications will include addition of detection equipment, changes to fire and HVAC systems, exhaust fan equipment, and building electrical changes. A general contractor will be hired through a competitive bidding process to conduct the work.



Component B: Electrolysis Hydrogen Fueling Station

Hydrogen production and fueling infrastructure designed, procured, and installed on property near current fueling station. Hydrogen infrastructure is expected to include a dispenser, station module, supply storage, fueling storage, supply compressor, electrolyzer, transformer, water, and a pipeline. This will be a design-build procurement, through a competitive request for proposals process.



Subcontracting Opportunities

NAICS Code	Activity	A	B
236220	Commercial and Institutional Building Construction	X	
238210	Electrical Contractors and Other Wiring Installation Contractors	X	X
238220	Plumbing, Heating and Air Conditioning Contractors	X	X
238320	Painting and Wall Covering Contractors	X	
423610	Electrical Apparatus and Equipment, Wiring Supplies and Related Equipment Merchant Wholesalers	X	
237110	Water and Sewer Line and Related Structures Construction		X
237120	Oil and Gas Pipeline and Related Structures Construction		X
237130	Power and Communication Line and Related Structures Construction		X
238910	Site Preparation Contractors (Demolition)		X
238110	Concrete		X
238290	Other Building Equipment Contractors		X
541330	Engineering Services		X
811310	Commercial and Industrial Machinery and Equipment Repair and Maintenance		X

Component A: Hydrogen Gas Detection System and Facility Modifications

Component B: Electrolysis Hydrogen Fueling Station



DBE Methodology and Goal

49 CFR Part 26

Participation By Disadvantaged Business Enterprises In Department Of Transportation Financial Assistance Programs

- This goal and methodology represent all FTA funds that MTD will expend on all FTA assisted contracting opportunities from October 2018 through September 2021, excluding the purchase of transit vehicles.
- In the triennial period, MTD has confirmed one FTA-funded project: Hydrogen Fuel Cell Buses & Infrastructure.
- All aspects of the project have been evaluated to identify subcontracting opportunities.

Geographic Market Area

- We anticipate the substantial majority of subcontractors interested in this project will be within the state of Illinois.



DBE Methodology and Goal

Step 1: Develop the base figure to determine relative availability of DBEs

$$\left(\frac{\# \text{ DBE}}{\# \text{ Total Firms}} \right) * (\% \text{ of total grant funds})$$

Example: Plumbing & HVAC (NAICS 238220)

$$\frac{110}{3,986} * 2.17\% = .03\%$$

DBE Methodology and Goal

	NAICS Code	Activity	# DBE Available	# Firms Available	Relative Availability	Weight	Weighted Base
A	236220	Commercial and Institutional Building Construction	87	1,365	6.37%	0.71%	0.00%
	238210	Electrical Contractors and Other Wiring Installation Contractors	140	2,746	5.10%	1.35%	0.03%
	238220	Plumbing, Heating and Air Conditioning Contractors	110	3,986	2.76%	2.17%	0.03%
	238320	Painting and Wall Covering Contractors	80	1,472	5.43%	0.04%	0.00%
	423610	Electrical Apparatus and Equipment, Wiring Supplies and Related Equipment Merchant Wholesalers	28	633	4.42%	1.58%	0.07%
B	237110	Water and Sewer Line and Related Structures Construction	34	345	9.86%	0.60%	0.06%
	237120	Oil and Gas Pipeline and Related Structures Construction	4	38	10.53%	1.43%	0.15%
	237130	Power and Communication Line and Related Structures Construction	36	190	18.95%	0.71%	0.14%
	238910	Site Preparation Contractors (Demolition)	103	1,130	9.12%	0.48%	0.04%
	238110	Concrete	157	806	19.48%	0.48%	0.09%
	238220	Plumbing, Heating and Air Conditioning Contractors	110	3,986	2.76%	0.36%	0.00%
	238210	Electrical Contractors and Other Wiring Installation Contractors	140	2,746	5.10%	0.71%	0.02%
	238290	Other Building Equipment Contractors	17	316	5.38%	0.71%	0.04%
	541330	Engineering Services	140	1,871	7.48%	1.19%	0.09%
811310	Commercial and Industrial Machinery and Equipment Repair and Maintenance	7	964	0.73%	1.43%	0.01%	
Base figure percentage (total)							.91%

DBE Methodology and Goal

Step 2: Adjustment

- Disparity Study: MTD reviewed [the Illinois Department of Transportation \(IDOT\) 2017 disparity study](#), which was conducted to help inform IDOT's implementation of the Federal Disadvantaged Business Enterprise (DBE) Program. We determined that this study is not a close enough match to make an adjustment to our DBE goal based on this study.
- Past Participation: The scope of the project in the current triennial period is very different from the types of projects MTD has let in recent years. Thus, we cannot assume that past rates of DBE participation are an accurate reflection of DBE capacity in the type of work we will perform this triennial period. Based on our evaluation or information, no adjustment is warranted at this time.

Race Neutral Measures

- Arranging solicitations, times for the presentation of bids, quantities, specifications, and delivery schedules in ways that facilitate participation by DBEs and other small businesses and by making contracts more accessible to small businesses.
- Carrying out information and communications programs on contracting procedures and specific contract opportunities.
- Ensuring distribution of DBE directory to the widest feasible universe of potential prime contractors.
- Assisting DBEs, and other small businesses, to develop their capability to utilize emerging technology and conduct business through electronic media.

Prompt Payment

The Contractor will be required to make all payments, including retainage, owed to the subcontractors for satisfactory completion of the accepted work within 30 days after the MTD's payment to the prime contractor.

Anticipated Schedule: Component B

Electrolysis Hydrogen Fueling Station

Milestone	Date
Date of RFP Issue	May 3, 2019
Mandatory Pre-proposal Conference and Job Walk	May 30, 2019, 1:00 PM CT
Deadline for Written Questions	June 6, 2019, 5:00 PM CT
Response to Questions	June 14, 2019
Proposals Due	July 12, 2019 2:00 PM CT
Interviews	July 22 – July 26, 2019
Notice of Preliminary Award	August 19, 2019
MTD Board Approval	August 28, 2019
Notice to Proceed	September 1, 2019



Anticipated Schedule: Component A

Hydrogen Gas Detection System and Facility Modifications

Milestone	Date
Date of IFB Issue	June 2019
Pre-bid Conference and Job Walk	June – July 2019
Bids Due	July 2019
Notice of Preliminary Award	July – August 2019
MTD Board Approval	August 2019
Notice to Proceed	September 2019

Awaiting pre-bid concurrence for Illinois Department of Transportation (IDOT)



Resources

- Illinois Department of Transportation DBE Supportive Services
- Illinois Procurement Technical Assistance Center
- Illinois State Highway and Toll Authority Diversity Programs
- Small Business Administration
- Illinois Small Business Development Center
- Women's Business Development Center
- Veteran Business Assistance

mtd.org/inside/public-information/compliance/disadvantaged-business-enterprise/



Feedback and Questions

Presentation and methodology available:

mtd.org/inside/public-information/compliance/disadvantaged-business-enterprise/

DBE Questions

Brenda Eilbracht, DBE Liaison Officer

beilbracht@mtd.org

217.384.8188

Project Questions

Jane Sullivan

jsullivan@mtd.org

217.384.8188



Potential Bidders List

Electrolysis Hydrogen Fueling Station

Anticipated Release Date: May 3, 2019

Anticipated Due Date: July 12, 2019

No.	Company	Name	Email	Phone number
1	Air Liquide	Ole Hoefelmann	Ole.Hoefelmann@airliquide.com	NA
	Air Liquide	Pierre-Germain Marlier	pierre-germain.marlier@airliquide.com	(415) 410-7844
	Air Liquide	Jorge Lopez	jorge.lopez@airliquide.com	(346) 971-3031
2	Air Products	Chris Kretz	kretzcm@airproducts.com	(610) 481-5570
3	Argonne National Labs*	Amgad Elgowainy	aelgowainy@anl.gov	(630) 252-3074
4	California Fuel Cell Partnership*	Keith Malone	kmalone@CAFCP.org	(951) 368-3636
	California Fuel Cell Partnership*	Nico Bouwkamp	nbouwkamp@cafcp.org	(916) 375-8050
5	California Hydrogen Business Council*	Peter Thompson	pthompson@californiahydrogen.org	(310) 455-6095
	California Hydrogen Business Council*	Emanuel Wagner	ewagner@californiahydrogen.org	(310) 455-6095 x360
6	Canadian Hydrogen and Fuel Cell Assn.*	Andreas Truckenbrodt	atruckenbrodt@chfca.ca	(604) 283-1040
7	Clean Energy	Todd R. Campbell	Todd.Campbell@cleanenergyfuels.com	N/A
	Clean Energy	Derek Turbide	derek.turbide@cleanenergyfuels.com	(949) 437-1305
	Clean Energy	Chad Lindholm	Chad.Lindholm@cleanenergyfuels.com	(949) 437-1356
8	Dash 2 Energy	Gordon H. Dash	gordon@dash2energy.com	(281) 703-9224
9	First Element Fuel	Ghassan Sleiman	Ghassan.sleiman@firstelementfuel.com	(310) 415-2189
	First Element Fuel	Tim Brown	tim.brown@FirstElementFuel.com	(215) 882-2166
10	Fuel Cell and Hydrogen Energy Assn.*	Morrie Markowitz	mmarkowitz@fchea.org	(202) 261-1331
	Fuel Cell and Hydrogen Energy Assn.*	Jennifer Gangi	jgangi@fchea.org	(202) 261-1331
11	H2B2	Jose Lopez-Gallego	jlog@versallis.com	(714) 227-5481
12	Hydrogen Technology & Energy Corp. (HTEC)	Colin Armstrong	carmstrong@htec.ca	(604) 351-0298
13	Hydrogenics	Michel Archambault	marchambault@hydrogenics.com	(450) 482-1622
	Hydrogenics	Rob Del Core	RDelCore@hydrogenics.com	(858) 386-8930
14	ITM Power	Stephen Jones	sj@itm-power.com	(714) 453-8141
15	Ivys (Simple Fuel)	Darryl Pollica	darryl.pollica@ivysinc.com	(781) 812-6772
16	Iwatani	Steve Brooks	sdbrooks.04@gmail.com	(941) 737-5031
17	Maximator	Markus Stephan	mstephan@at.maximator.de	+43 664 88183736
	Maximator	Robert Adler	radler@at.maximator.ed	+43 7963 6214330
18	Messer	Mike Iannelli	mike.iannelli@messer-us.com	(925) 786-5532
	Messer	Mike Ciotti	michael.ciotti@messer-us.com	(908) 720-0258
19	Millenium Reign Energy	Chris McWhinney	chris@mreh2.com	(937) 479-1994
20	Natural Gas Fueling Solutions	Morgan Stearn	morgan.stearn@ngfs.com	N/A
21	Nel Hydrogen	Steve Szymanski	sszymanski@protononsite.com	(203) 980-3182
	Nel Hydrogen	Mikael Sloth	mslot@nelhydrogen.com	+45 29 91 31 79
22	Nuvera	Gus Block	gblock@nuvera.com	(617) 245-7553
23	OneH2	Paul Dawson	paul.dawson@oneh2.com	N/A
	OneH2	Cullen Hall	cullen.hall@oneh2.com	(860) 993-2783
24	Plug Power	Al Cioffi	acioffi@plugpower.com	(214) 334-5774
	Plug Power	Gerard Conway	gconway@plugpower.com	N/A
25	Praxair (Linde)	Al Burgunder	al_burgunder@praxair.com	(203) 837-2970
26	Shell	Arnab Chatterjee	Arnab.A.Chatterjee@shell.com	(415) 630-3843
	Shell	Hechem Nadjjar	Hechem.Nadjjar@shell.com	+33 6 30 34 94 17
	Shell	Wayne Leighty	W.Leighty@shell.com	(832) 680-9825
27	Stratosfuel	Jonathan Palacios-Avila	jpa@stratosfuel.com	(323) 804-5067
28	Trillium	Ryan Erickson	RAErickson@trilliumcng.com	(714) 380-2763
29	United Hydrogen	Joe Gagliano	joe.gagliano@unitedhydrogen.com	(949) 382-9517
30	Zen Energy Solutions	Jeff Grant	jeff@zenenergysolutions.com	(604) 315-5965

*Associations/individuals who will advertise the solicitation in their newsletters or to their colleagues.

Questions and Answers from MTD Hydrogen Fuel Cell Bus Infrastructure DBE Outreach Meeting
April 30, 2019 1:30 pm to 2:30 pm

Meeting Location

Champaign-Urbana Mass Transit District (MTD) Administrative Offices, 1101 East University Avenue,
Urbana IL 61802

Attendance

4 DBE Vendors (1 DBE only, 2 DBE with MBE certification, 1 DBE with WBE certification)

2 WBE Vendors (no other certification)

Total: 6 individual vendors

Questions and Answers

Q1: Do you have an estimated dollar value for the site prep, or how much of the project would you anticipate for site prep?

Ans 1: MTD is not able to give out estimates.

Q2: Is the concrete work slab on grade, or what?

Ans 2: The concrete work is preparing the platform on which the electrolyzer, chiller, hydrogen compressors, air compressor, electrical transformer, and storage tubes will be mounted.

Q3: Is there a dollar amount for the whole project you can share?

Ans 3: MTD is not able to give out estimates.

Q4: Will MTD narrow down the list of potential bidders as to who will be bidding?

Ans 4: We will send the RFP for Component B to all on the list of vendors we've provided via the handout provided today.

Q5: For Component B, what will be the type of structure?

Ans 5: The structure is comprised of electrolyzer, chiller, hydrogen compressors, air compressor, electrical transformer, and storage tubes will be mounted.

Q6: For Component B can you expand on what you'll be looking for? What is the role of engineering services in the project scope list?

Engineering services would be the work necessary to design and prepare architectural, mechanical, and electrical plans for plan submittal (permitting) and construction and installation activities.

Q7: Since Component B is design-build and involves what sounds like will be a good amount of concrete work, how will the precise quantities be determined in order to prepare an estimate?

Ans 7: More information on this will be available with the issuance of the RFP this Friday, May 3. There is also a pre-proposal conference and job walk-through on May 30 at MTD.