

# Wheeler Center Solar Park

Presentation to the Energy Commission

April 12, 2022



#### **Presentation Outline**

- A<sup>2</sup>ZERO Alignment
- Why Collaborate?
- Project Process
- Project Overview
- Subscriptions
- New Developments





## A<sup>2</sup>ZERO and WCSP

- Strategy 1 Powering our community with 100% renewable energy
  - Action 4: Landfill solar project
  - Action 3: Community Solar Program

100%	6				
ACTION SUMM	ARY T	ABLE			
		GHG Reduction	<b>Metal emissions</b>	\$/ton	Co-Benefits
Community Choice Aggregation Bulk Purchase of Renewables	\$3,245,000	784,000	35.8% 3.9%	54 57	Coming
Community Solar Program	\$205,000	11,500	0.5%	\$18	Soon
Landfill Solar Project	\$80,000	23,000	1.11	\$3.5	
Electrification	\$7,100,000	362,200	16.5%	\$ 20	
Electrify All Buses	\$80,575,000	13,800	0.6%	\$ 5,839	
Bulk Purchase EVs Private EV Fleets	\$700,000	122,900	5.6% 0.0%	86	Coming Soon
Private EV Fleets City EV Fleet	\$123,000	0 1,100	0.0%	\$3,636	
EV Infrastructure	\$42,000,000	000	0.0%		
Bulk Purchase of Energy Efficiency	\$7,100,000	242,500	16.5%	\$4	
Building Code Requirements	\$80,575,000	48,300	0.6%	\$ 40	
LED Lighting	\$700,000	2,600	5.6%	\$1,208	
Benchmarking	\$123,000	0	0.0%		
Loan Loss Reserve Energy Conderge & Community Education	\$4,000,000	0	0.0%		Coming
Net Zero Energy Attordable Housing	\$800,000	400	0.01	\$2,000	Soon
Green Rental Housing Program	\$530,000	0	0.0%		
Green Business Challenge	\$700,000	0	0.0%		
Aging in Place Efficiently Weatherization Expansion	\$150,000	0			
Non-Motorized Plan	\$3,245,000	60,400	2.8%	\$40	
Expand Local and Regional Transit	\$605,000	93,200	4.3%	\$7047	Coming Soon
Park and Ride	\$205,000	28,400	1.3%	\$5,986	
Duples/Triples/ADUs Mixed-Use Zoning	\$80,000 \$365,000	2,200	0.1%	\$114	
Mixed-Use Zoning Parking Rates	\$365,000 \$4,500,000	0	0.0%		
Year Round Compositing	\$26,000,000	400	0.5%	\$65,000	
Expand Commercial Recycling	\$18,400,000	400	0.82	\$3,286	Coming Soon
Sustainable Material Use and Reuse	\$270,000	0	0.0%		
Circular Economy	\$270,000	0	0.0%		
Plant-Based Diets Refrigerant Recycling	\$208,400 \$179,400	0	0.0%		
Retrigerant Recycling Resilience Hubs	\$179,400	2,500	0.0%	\$2,010	_
Resilience Hubs Neighborhood and Youth Ambassadors	\$5,025,000	2,500	0.0%	32,010	
Tree Canopy	\$1,160,000	450	0.0%	\$2,578	Coming Soon
Neighborhood Asset Mapping	\$300,000	0	0.0%		
Emergency Kits	\$350,000	0	0.0%		
Sensors and Data Monitoring Equity Programs	\$200,000	0	0.0%		
Equity Programs SA2T Grant Program	\$200,000	0	0.0%		Coming
Internal Carbon Tax	\$75,000	0	0.0%		Soon
Offsets Total	\$9,440,000 \$1,056,403,800		13.6% 100.0%	\$32	



# Why Collaborate?

- Complex site
- Desire for community solar
- VGP Agreement
- Connection to DTE distribution lines (not ITC transmission)
  - Faster! Likelihood that energy will be used locally
- Demonstration project
  - Multi-institutional collaboration
  - Low-income solar offering



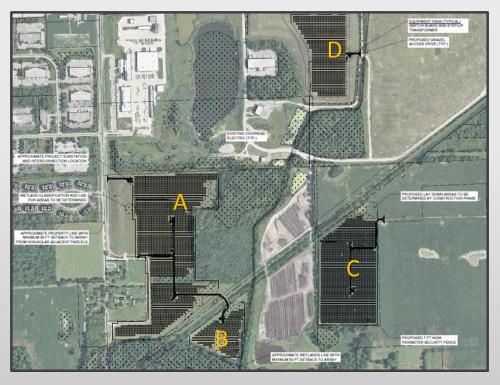
## **Project Process**

- DTE and Ann Arbor partnered to develop requirements for an engineer, procurement, and construction (EPC) request for proposal (RFP)
- DTE issued the public RFP in October 2021 with a five-week bid period
- 10 responses were received from EPC contractors
  - Bids were evaluated across major categories of pricing, experience, project management, safety, and contract terms and conditions
- Round II reviews down selected to four bids for short-list conversations
- DTE down-selected to a single EPC contractor with agreement from Ann Arbor
- Negotiations are being finalized with the selected EPC contractor



# **Project Overview**

- The Wheeler Center Solar Park is a 20 MW solar park with an estimated 35,000 MWh first year generation.
- Construction is expected to start early 2023 with generation commencing in early 2024.
- Array's A, B and C are located on greenfield sites
- Array D is located on the capped landfill





# Subscriptions

- Subscription model like MIGreenPower
- All subscribers get the same pricing per unit of energy
  - Exception: low-income subscriptions
- Levelized cost of energy minus the market value (capacity credit and locational marginal price for energy)
- DTE is responsible for operating and maintaining the site if it doesn't produce, they don't get paid



#### New Development

- The federal government recently opened an investigation into whether tariff penalties of more than 200% should be imposed on 80% of the solar panels slated for the US market.
- S&P is calling this an "existential crisis" for the US solar industry.
- This is causing industry-wide cancellations or large cost increases on many projects. We are still learning about what the impact on this project may be.





#### **Next Steps**

- Energy Commission consideration
- City Council consideration
- Public information session
- Filing with Michigan Public Service Commission
- Approval
- Groundbreaking
- Recruitment
- Energy production and emissions reductions!





## Thank You www.a2gov.org/sustainability

Ann Arbor Office of Sustainability and Innovations