

University of Connecticut

Carbon Neutral Task Force
Meeting #3

February 2023

Agenda

- Task Force Charge Revisions
- Solar
 - Solar Tree
 - Solar Canopy – IPB and Parking Lots
- Updates/Open Discussion



*“The Carbon Reduction Working Group will **continue to support ongoing energy conservation efforts but will also** identify, evaluate and recommend specific cost-effective initiatives and actions within the larger context of the university’s available resources. **This includes academic research and other programs**, that will increase the use of clean and sustainable energy on UConn’s campuses and reduce environmentally harmful emissions. **The goals of this group include UConn achieving** carbon neutrality on its campuses by 2030, **with the ultimate goal of zero carbon by 2040.**”*

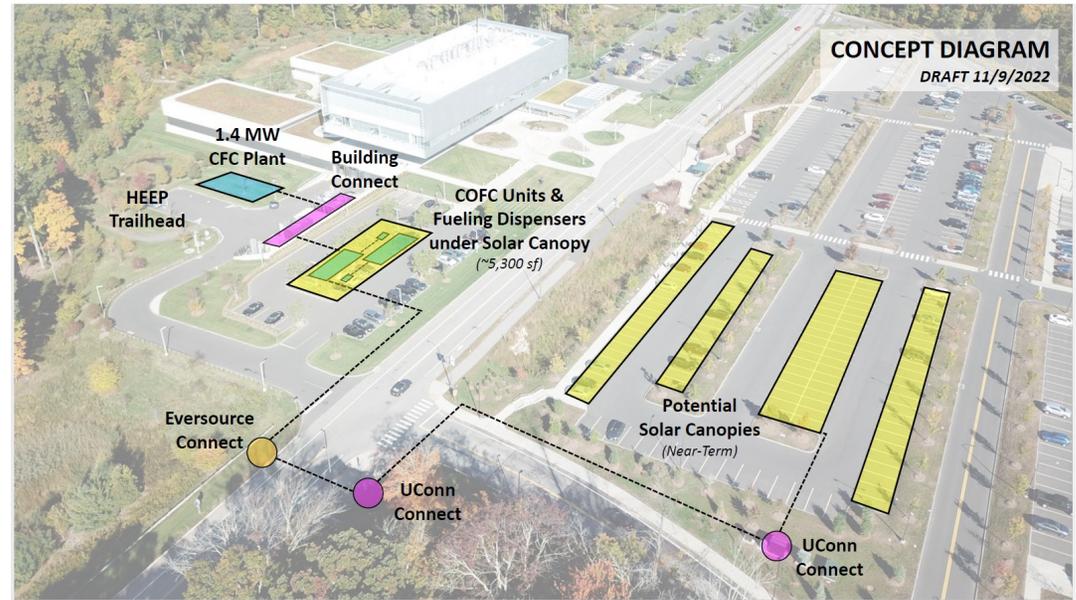


Solar Tree Project



For more info please visit : <https://steam-tree.initiative.uconn.edu/>

IPB - Solar Canopy/Fuel Cell/Hydrogen Project



Parking Lots – Solar Canopy



University of Connecticut RFQ LM113022 Solar Locations Exhibit A									
Lot Designation	Total Parking Lot Area (sqft)	Usable Solar Canopy Area (sqft)	MW	Rated MW	Public Facing or Gateway	Access & Tie-In Desirability	Improvement Planned or Needed	Total	Comments
Lot W	304,500	165,000	2.475	1.238	3	3	1	8.666	Recently Resurfaced, future parking garage site, planned regional transit facility. Connection Access Switch/XFMR, ductbank Required. Tie in by parking lot MV svc or High Head/Reservoir area.
Lot D	119,000	69,000	1.035	1.035	1	3	3	7.245	Existing poor pavement conditions. Planned athletics development. Connection Access at SW31@3BE1-28-1A, Switch/XFMR required for lot.
Charter Oak Apartments	245,500	134,000	2.01	1.005	1	3	3	7.035	Existing poor pavement conditions. Connection Access Switch/XFMR/Ductbank required, multiple tie ins may be most practical based on total lots done.
Lot S	131,500	56,000	0.84	0.84	3	1	3	5.88	Under construction through 2024 with a geothermal field and planned garage site. Connection Access Switch/XFMR/Ductbank required. Coordination with South Dorm/Plant projects to get MV tie in point.
Hilltop Apartments	307,500	172,000	2.58	0.86	1	1	3	4.3	Existing poor pavement conditions. Connection Access requires Switch/XFMR/Ductbank. Multiple tie ins may be most practical.
Lot K	277,500	104,500	1.568	0.523	3	2	1	3.138	Constructed 2019 as planned limited solar & building site. Underground stormwater detention facility uses 35% of lot. Connection Access requires Switch/XFMR/ductbank from Charter Oak Driveway manholes/SW38 area.
Lot Z	74,500	39,500	0.593	0.593	1	3	1	2.965	Recently resurfaced with underground stormwater detention facility using 50% of lot. Connection Access via SW30 with no MV nearby requires Switch/XFMR Required and duct bank.
Lot Y	78,000	38,700	0.581	0.581	1	3	1	2.905	Recently resurfaced. Connection Access via SW30 but no MV nearby requires Switch/XFMR/duct bank.
Horse Barn Hill Road	22,500	22,500	0.338	0.338	2	2	3	2.366	Agricultural setting. Connection Access requires Switch/XFMR and OH analysis needed to tie to MV OH along road with duct bank for field most practical.
Lot R - North of Fine Arts	43,500	24,500	0.368	0.368	2	3	1	2.208	Reconstructed 2020, Area 1 prime parking. Connection Access Switch/XFMR/Ductbank required. Coordination with South Dorm/Plant projects to get MV tie in point.
Lot J	45,000	20,000	0.3	0.3	3	3	1	2.1	Constructed 2017. No future building proposed. Connection Access from Road Lighting circuit by Eversource SVC.
Totals	1,649,000	845,700	12.69	7.68					

Open Discussion

