

Wood County Renewable and Sustainable Committee

Date: Thursday, March 5, 2020

Time: 9:00 am

Location: Room 115- Wood County Courthouse

- 1) Call to order
- 2) Public comments
- 3) Review/approve previous meeting minutes
- 4) Savion Solar Project
- 5) Energy Plan- Review suggestions
- 6) EV Charging Station
- 7) R&S and Lean Process Grants
- 8) Future agenda items
- 9) Next meeting date and time
- 10) Adjourn

RENEWABLE & SUSTAINABLE COMMITTEE MEETING

DATE: Friday, February 7, 2020
TIME: 9:30 AM
LOCATION: Wood County Courthouse – Room 115, Wisconsin Rapids, WI

Present: Jake Hahn, Al Breu, Dave LaFontaine, Bill Leichtnam, Reuben Van Tassel, Nancy Turyk

Others

Present: Nicole Gessert, Bill Clendenning, Ben Nikolai, Doug Mahon

1. Call Meeting to Order: Supervisor Hahn called the meeting to order at 9:00 a.m.
2. Public Comments:
None
3. Review/approve previous meeting minutes:
Minutes from the December 20, 2019 R&S Committee meeting.
Hahn indicated he would like to amend the minutes to indicate he arrived at the meeting at 9:25 a.m.

Motion: (LaFontaine/Breu) to approve the prior meeting minutes. Motion carried unanimously.

4. Energy Study:
Hahn indicated the energy study came in too late to be added to the packet so he emailed it to everyone. Turyk gave a summary of the results of the energy study. Turyk indicated she made connections with UW Platteville and Faith Technologies regarding evaluating the energy study results for no charge. Discussion ensued.

Motion: (LaFontaine/Breu) to invite UW Platteville and Faith Technologies to evaluate the energy study regarding the counties top four energy consumers with the best return on investment. Motion carried unanimously.

5. Energy Plan Timelines:
Hahn indicated the Committee should wait for feedback from UW Platteville and Faith Technologies before setting timelines for the energy plan. Discussion ensued. Hahn suggested everyone review the energy study before the next meeting to be prepared to go over the plan at the next meeting.
6. Activities Update:
Turyk shared she attended the Renew conference in Madison and became aware of potential grant money for an electric vehicle. Discussion ensued.
7. R&S Lean Process Grants:
Van Tassel indicated the 2020 updated grant applications are available on the intranet for Department Heads with a due date of: 5/22/2020. He indicated he will remind everyone at the next Department Head meeting on: 2/26/2020.
8. EV Charging Station:
Status of the EV Charging station at the Courthouse was questioned. Van Tassel indicated he believes we are waiting for more details from the Executive Committee. Discussion ensued.

Motion: (LaFontaine/Leichtnam) to construct an EV charging station as part of County Government that is foremost in having a County electric vehicle. Motion carried unanimously.

9. Discuss Developers Agreement with Savion:

Machon reported the developers agreement with Savion is moving along and the County is waiting to hear back soon. Kastenholz is working on finalizing to bring to the March County Board meeting. Leichtnam questioned the size of the solar project and voiced his concerns with the developers agreement indicates double the acreage then originally documented. Discussion ensued.

Motion: (Breu/LaFontaine) to recommend Supervisor Leichtnam to be involved in developers agreement discussions. Motion carried unanimously.

10. Future agenda items:

- Energy Plan – review suggestions
- EV charging station
- R&S and Lean Process Grants
- Invite a representative from Savion to the next meeting

11. Next meeting:

Thursday, March 5th. 9:00 a.m. @ Wood County Courthouse, room 115.

12. **Adjourn Renewable & Sustainable Committee Meeting:** Jake Hahn declared the meeting adjourned @ 11:09 a.m.

Notes by Nicole Gessert, Maintenance Department

Renewable & Sustainable Committee Meeting

February 7, 2020

[illegible]

Wood County Energy Goals and Plan

Reducing unnecessary energy consumption and expenditures is an important issue for many individuals, businesses, organizations, and local governments. Wood County seeks to achieve a feasible level of energy independence as a way of enhancing energy security, reducing costs, attracting new residents, and positively impacting health, the environment, and local natural resources for future generations. Declining costs associated with renewable energy systems are making the local generation of energy more attainable and economically beneficial. Furthermore, leading credit rating agencies look favorably on an energy plan and goals when determining municipal credit ratings.

Setting targets, developing strategies, engaging employees, and planning for initial capital investments will pave the way for reductions in energy use and expand the amount of energy generation by Wood County, resulting in saved tax dollars, greater energy security, and positive health and environmental outcomes.

Energy is undergoing swift transitions worldwide. As a result, this plan should be reviewed and updated at least annually by the Wood County Renewable and Sustainable Committee.

Goals:

Promote energy efficiency/conservation and renewable energy for Wood County operations

Initial target: By 2025, reduce nonrenewable energy usage by 15%.

Lead by example.

1. By 2025, reduce nonrenewable energy usage by 15%.
 - a. Conduct focus groups with Wood County employees to discuss energy use and gather input and ideas for energy efficiencies and renewables.
 - b. Develop a mechanism to regularly distribute energy-saving tips to employees. Reward positive changes.
 - c. By February 29, 2020, work with UW-Madison to complete an energy audit of Wood County facilities.
 - d. Using the energy audit results, prioritize energy efficiency and renewable energy strategies.
 - e. By July 1, 2020, establish a plan to monitor the County's consumption of electricity, natural gas, liquid propane, and vehicle fuels.
 - f. By December 31, 2020, outline the steps needed to achieve a feasible level of energy independence. Include benchmarks.
 - g. Conduct site assessments for five County properties for solar feasibility.

- h. Consider solar installation for facilities that will be re-roofed, renovated, or newly constructed.
- i. Install at least 3 photovoltaic (PV) systems on County property in differing areas of Wood County. Those already recommended by the Renewable and Sustainable Committee include a system at NEPCO park and EV charging station at the courthouse.

Adopt renewable energy policies and practices as part of a strategy to meet future energy needs.

1. Utilize sustainability and local renewable energy independence as tools to enhance economic stability and quality of life in the County.
 - a. When feasible, enhance renewable energy workforce development thru partnerships with Mid-State Technical College and other renewable energy training programs and their students.
 - b. Publicize County efforts associated with energy efficiencies and renewable energy to attract new residents and businesses.
 - c. Set standards for land management practices within utility scale solar developments that are beneficial to water resources in Wood County such as pollinator habitat, perennial cover, etc.
2. Identify and take steps to remove barriers to development of renewable energy.
 - a. Maintain updated permitting list for interested property owners.
 - b. When requested, provide guidance to Wood County municipalities interested in reducing barriers to local renewable energy installations.
 - c. Assist, to the extent possible, the location of renewable energy production facilities.
 - d. Maintain County energy webpages.
<https://www.co.wood.wi.us/Departments/UWEX/Energy.aspx>
3. Take advantage of opportunities as they arise.
 - a. By October 31, 2019, achieve SolSmart Gold level designation for Wood County.
 - i. Identify the SolSmart initiatives that should be continued or pursued by the County over the long term.
 - b. Monitor best practices as exemplified by other counties in the state and nation.
 - c. Stay informed on funding and incentive program opportunities and timelines for energy efficiencies and renewable energy.
 - i. Utilize experienced grant writers to pursue funding available from utilities, government agencies, and private foundations.
 - d. Ensure the continuation of the County's Renewable and Sustainable Committee.
 - e. Continue to invest in renewable energy for Wood County properties. If possible, identify a long-term funding stream such as a portion of funds received by renewable energy developments.
 - f. Develop and maintain local and regional partnerships

CS WITH ACCESS CONTROL



**No hassle
usage cost
recovery optional**

A REAL PRODUCT, FOR THE REAL WORLD. The CS Series from ClipperCreek is designed to take the wear and tear of everyday use in all environments. Its tough NEMA 4 outdoor rated enclosure ensures you can install this unit anywhere with confidence. Enabled with Liberty PlugIns™, this station provides synchronous access code management. This unique system can be used as simple access control or as a billing system for usage cost recovery, with no network connection required.

- **MANY POWER LEVELS** - 16 Amp to 80 Amp charging
- **CONVENIENT** - 25 feet of charging cable for installation and operation flexibility
- **DURABLE** - Rugged, fully sealed NEMA 4 enclosure for installation anywhere
- **ACCESS CONTROL** - Perfect for fleet and hospitality applications, access codes are assigned to individual users, or as needed, which can be updated based on a predetermined interval (monthly, quarterly or annually).
- **PAY BY PHONE POINT OF SALE SOLUTION** - Allows drivers to register an account online, bill their credit card for use of the charging station and access their codes via text message, online, or mobile application. This gives the EV driver the flexibility of using the station anytime.



ClipperCreek.com

Liberty Plug-in enabled CS Charging Station

Call ClipperCreek Today!

(877) 694-4194

www.clippercreek.com

PRODUCT OVERVIEW

ELECTRICAL SPECIFICATIONS

- **Service** - 208V to 240V, 20 to 100 Amp, single phase, 2 wire w/ground
- **Charge current output power** - 208V to 240V, 16 to 80 Amp continuous (3.8kW to 19.2kW)
- **Service ground monitor** - Constantly checks for presence of proper safety ground
- **Automatic circuit reclosure after minor power faults**
- **Charge Circuit Interruption Device** - Ground fault protection with fully automated self-test, eliminates manual user testing
- **Cold Load Pickup** - Time-delayed and randomized to allow seamless re-energizing of unit following power outages
- **External Control Input** - Allows external control from smart meter (AMI), or load management device

MATERIAL SPECIFICATIONS

- Indoor/outdoor rated (NEMA 4) enclosure
- Operating Temperatures: -40°F to 122°F (-40°C to 50°C)
- Dimensions for CS-20, CS-30, CS-40 and CS-50: 18" L x 17" W x 8"D (457mm L x 431mm W x 205mm D)
- Dimensions for CS-60 and CS-100: 17" L x 22"W x 12"D (432mm L x 559mm W x 305mm D)
- Installation: Hardwired
- Weight 33 lbs. (15 kg) to 45 lbs. (20.4 kg)
- UL, cUL Listed

MULTIPLE CONFIGURATIONS

MODEL:	CS-100	CS-60	CS-50	CS-40	CS-30	CS-20
CIRCUIT BREAKER RATING:	100 AMP	60 AMP	50 AMP	40 AMP	30 AMP	20 AMP
CONTINUOUS CURRENT:	80 AMP	48 AMP	40 AMP	32 AMP	24 AMP	16 AMP

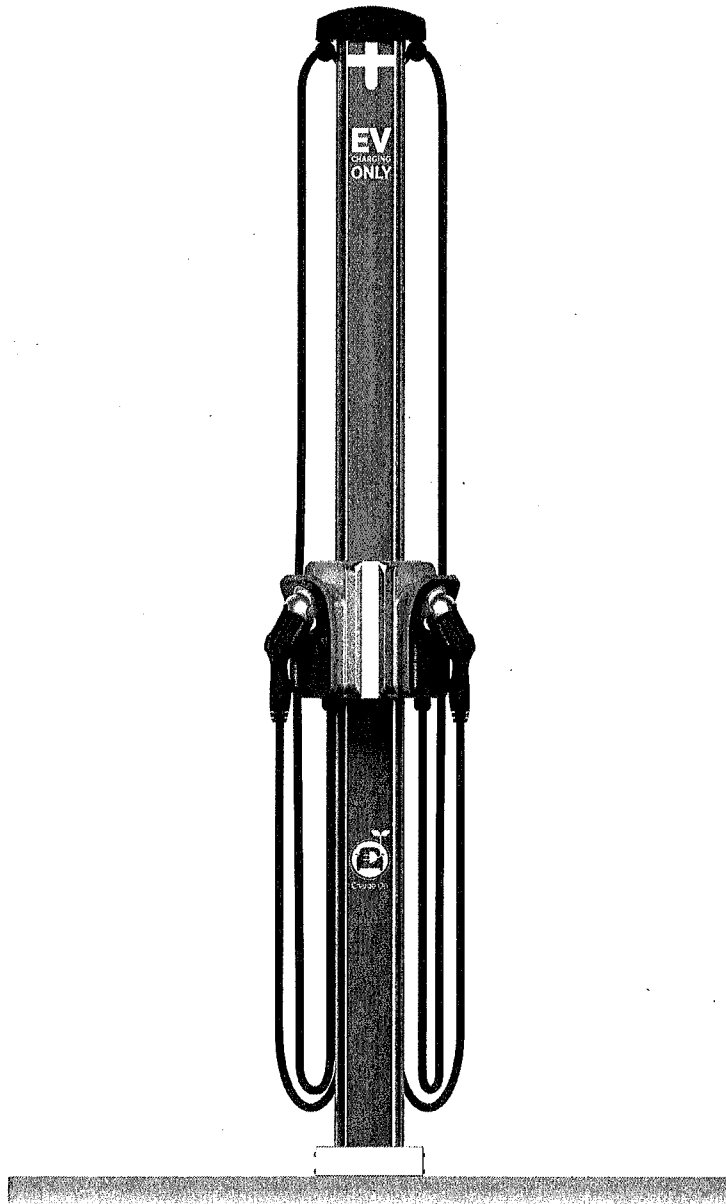
CODES, STANDARDS and RECOMMENDED PRACTICES

- **UL 2594** Electric Vehicle Supply Equipment
- **UL 2231** Personal Protection Device (i.e., CCID Hardware)
- **UL 1998** Standard for Safety-Related Software
- **UL 991** Standard for Tests for Safety-Related Controls Employing Solid State Devices
- **NEC 625** Electric Vehicle Charge System
- **SAE-J1772™** Electric Conductive Charge Coupler



ChargePoint® CPF50 Level 2 Charging Stations for Fleet

Specifications and Ordering Information



Ordering Information

The order codes below represent specific product configurations. Other product options are available. Please contact ChargePoint Sales for information and order codes.

Hardware

Description		Order Code
Model	Single Port, Wall Mount, 5.4m (18') Cable	CPF50-L18
	Single Port, Pedestal Mount, 5.4m (18') Cable	CPF50-L18-PEDMNT
	Dual Port, Pedestal Mount, 5.4m (18') Cable	CPF50-L18-PEDMNT-Dual
	Single Port, Pedestal 5.4m (18') Cable with 6' Cable Management Kit	CPF50-L18-PEDMNT-CMK6
	Dual Port, Pedestal, 5.4m (18') Cable with 6' Cable Management Kit	CPF50-L18-PEDMNT-CMK-Dual
	Single Port, Wall, 5.4m (18') Cable with 6' Cable Management Kit	CPF50-L17-WALLMNT-CMK6
	Single Port, Wall Mount, 7.0m (23') Cable	CPF50-L23
	Single Port, Pedestal, 7.0m (23') Cable with 8' Cable Management Kit	CPF50-L23-PEDMNT
	Dual Port, Pedestal Mount, 7.0m (23') Cable	CPF50-L23-PEDMNT-Dual
	Single Port, Pedestal, 7.0m (23') Cable with 8' Cable Management Kit	CPF50-L23-PEDMNT-CMK8
	Dual Port, Pedestal, 7.0m (23') Cable with 8' Cable Management Kit	CPF50-L23-PEDMNT-CMK8-Dual
	Single Port, Wall, 7.0m (23') Cable with 8' Cable Management Kit	CPF50-L23-WALLMNT-CMK8
Replacement Cable	5.4m (18'), 50A, Charging Cable	CPFCABLE-T1-50A-L18-F
	5.4m (18'), 50A, Charging Cable, CMK version	CPFCABLE-T1-50A-L18-CMK-F
	7.0m (23'), 50A, Charging Cable	CPXCABLE-T1-50A-L18-F
	7.0m (23'), 50A, Charging Cable, CMK version	CPFCABLE-T1-50A-L23-CMK-F

Required Companion Products

Description	Order Code
ChargePoint Cloud Plan	Please contact ChargePoint sales
ChargePoint Gateway* (1 required for every 9 stations)	CPGW1-LTE

* The ChargePoint Gateway is required for all CPF50 installations. ChargePoint certified installers will do a site validation and order the ChargePoint Gateway as needed. In addition, the site host is responsible for providing power to the gateway. The ChargePoint Gateway is owned and maintained by ChargePoint.

The Gateway should be located where cellular signal levels are optimal for LTE. Each Gateway must be located within 150 feet line-of-sight to as many as nine (9) CPF50 charging stations. Each CPF50 charging station has built-in WiFi capability to communicate via the Gateway for ChargePoint network services.

The Gateway is a UL Class 2 device and requires less than four watts power (33 mA@120 V or 19 mA@208 V). ChargePoint recommends hardwire electrical termination to the power source for the Gateway. The Gateway dimensions are 280 mm (11 in) wide by 340 mm (13 3/8 in) long by 137 mm (5 3/8 in) deep.

Recommended Companion Products for Fleet Applications

Description	Order Code
Station Initial Activation	CPSUPPORT-ACTIVE
ChargePoint Assure	CPF-ASSURE- <i>n</i> *

*Substitute *n* for desired years of service (1, 2, 3, 4 or 5)