

## APPENDIX E

### Proposed Greenhouse Gas Parameters

Number	Proposed Parameter	Description
1	Active 100 Hour Engine Fuel Consumption	Cumulative engine fuel consumption during recent operation (time < 100 hours).
2	Stored 100 Hour Engine Fuel Consumption	Most recent stored 100-hour cumulative fuel consumption for the engine.
3	Lifetime Engine Fuel Consumption	Total fuel consumption during the lifetime of the engine.
4	Active 100 Hour Engine Output Energy (EOE)	Cumulative engine output energy (EOE) during recent operation (time < 100 hours).
5	Stored 100 Hour Recent EOE	Most recent stored 100-hour cumulative EOE.
6	Lifetime EOE	Total EOE during the lifetime of the vehicle.
7	Active 100 Hour Engine Run Time	Cumulative engine run time during recent operation (time < 100 hours).
8	Active 100 Hour Idle Run Time (<= 1 mph)	Cumulative engine idle time while the engine is on during recent operation (time < 100 hours).
9	Stored 100 Hour Idle Run Time (<= 1 mph)	Most recent stored cumulative idle run time while the engine is on during 100 hours of engine operation.
10	Active 100 Hour Engine Idle Fuel Consumption (<= 1 mph)	Cumulative vehicle fuel consumption while the engine is idling during recent operation (time < 100 hours).
11	Stored 100 Hour Engine Idle Fuel Consumption (<= 1 mph)	Most recent stored 100-hour cumulative vehicle fuel consumption while the engine is idling.
12	Lifetime Engine Idle Fuel Consumption (<= 1 mph)	Total vehicle fuel consumption while the engine is idling during the lifetime of the vehicle.
13	Active 100 Hour Urban Speed Time (1 mph < X <= 40 mph)	Cumulative urban speed time while the engine is on during recent operation (time < 100 hours).
14	Stored 100 Hour Urban Speed Time (1 mph < X <= 40 mph)	Most recent stored cumulative urban speed time while the engine is on during 100 hours of engine operation.
15	Lifetime Urban Speed Time (1 mph < X <= 40 mph)	Total urban speed time while the engine is on during the lifetime of the vehicle.
16	Active 100 Hour Engine Power Takeoff (PTO) Active Time	Cumulative PTO active time during recent operation (time < 100 hours).
17	Stored 100 Hour Engine PTO Active Time	Most recent stored cumulative engine PTO active time during 100 hours of engine operation.
18	Active 100 Hour Engine PTO Fuel Consumption	Cumulative fuel consumption while PTO is activated during recent operation (time < 100 hours).
19	Stored 100 Hour Engine PTO Fuel Consumption	Most recent stored 100-hour cumulative engine PTO fuel consumption.
20	Lifetime Engine PTO Fuel Consumption	Total fuel consumption while PTO is activated during the lifetime of the vehicle.
21	Active 100 Hour Engine Waste Heat Recovery (WHR) Active Time	Cumulative engine WHR active time during recent operation (time < 100 hours).
22	Stored 100 Hour Engine WHR Active Time	Most recent stored cumulative WHR active time during 100 hours of engine operation.

23	Lifetime Engine WHR Active Time	Total engine WHR active time during the lifetime of the vehicle.
24	Active 100 Hour Engine WHR Distance Traveled	Cumulative distance traveled while engine WHR is active during recent operation (time < 100 hours).
25	Stored 100 Hour Engine WHR Distance Traveled	Most recent stored 100-hour cumulative distance traveled while engine WHR is active.
26	Lifetime Engine WHR Distance Traveled	Total distance traveled while engine WHR is active during the lifetime of the vehicle.
27	Active 100 Hour Engine WHR Energy Out	Cumulative engine WHR energy outputted during recent operation (time < 100 hours).
28	Stored 100 Hour Engine WHR Energy Out	Most recent stored 100-hour cumulative engine WHR energy outputted.
29	Lifetime Engine WHR Energy Out	Total engine WHR energy outputted during the lifetime of the vehicle.
30	Active 100 Hour Stop/Start Active Time	Cumulative stop/start active time during recent operation (time < 100 hours).
31	Stored 100 Hour Stop/Start Active Time	Most recent stored cumulative stop/start active time during 100 hours of engine operation.
32	Lifetime Stop/Start Active Time	Total stop/start active time during the lifetime of the vehicle.
33	Active 100 Hour Vehicle Fuel Consumption	Cumulative vehicle fuel consumption during recent operation (time < 100 hours).
34	Stored 100 Hour Vehicle Fuel Consumption	Most recent stored 100-hour cumulative fuel consumption for the vehicle.
35	Lifetime Vehicle Fuel Consumption	Total vehicle fuel consumption during the lifetime of the vehicle.
36	Active 100 Hour Distance Traveled	Cumulative distance traveled during recent operation (time < 100 hours).
37	Stored 100 Hour Distance Traveled	Most recent stored 100-hour cumulative distance traveled.
38	Lifetime Distance Traveled	Total distance traveled during the lifetime of the vehicle.
39	Active 100 Hour Positive Kinetic Energy (PKE)	Cumulative PKE during recent operation (time < 100 hours).
40	Stored 100 Hour Recent PKE	Most recent stored 100-hour cumulative PKE.
41	Lifetime PKE	Total PKE during the lifetime of the vehicle.
42	Active 100 Hour "Active Technology" Active Time	Cumulative "Active Technology" active time during recent operation (time < 100 hours).
43	Stored 100 Hour "Active Technology" Active Time	Most recent stored cumulative "Active Technology" active time during 100 hours of engine operation.
44	Lifetime "Active Technology" Active Time	Total "Active Technology" active time during the lifetime of the vehicle.
45	Active 100 Hour "Active Technology" Distance Traveled	Cumulative distance traveled while "Active Technology" is active during recent operation (time < 100 hours).
46	Stored 100 Hour "Active Technology" Distance Traveled	Most recent stored 100-hour cumulative distance traveled while "Active Technology" is active.
47	Lifetime "Active Technology" Distance Traveled	Total distance traveled while "Active Technology" is active during the lifetime of the vehicle.

48	Active 100 Hour Automatic Engine Shutdown Count	Cumulative number of time automatic engine shutdown is activated during recent operation (time < 100 hours).
49	Stored 100 Hour Automatic Engine Shutdown Count	Most recent stored 100-hour cumulative automatic engine shutdown count.
50	Lifetime Automatic Engine Shutdown Count	Total number of time automatic engine shutdown is activated during the lifetime of the vehicle.
51	Active 100 Hour Distance Traveled in Charge Depleting Operation with Engine off	Cumulative distance traveled while in charge depleting operation with engine off during recent operation (time < 100 hours).
52	Stored 100 Hour Distance Traveled in Charge Depleting Operation with Engine off	Most recent stored 100-hour cumulative distance traveled while in charge depleting operation with engine off.
53	Lifetime Distance Traveled in Charge Depleting Operation with Engine off	Total distance traveled while in charge depleting operation with engine off during the lifetime of the vehicle.
54	Active 100 Hour Distance Traveled in Charge Depleting Operation with Engine Running	Cumulative distance traveled while in charge depleting operation with engine running during recent operation (time < 100 hours).
55	Stored 100 Hour Distance Traveled in Charge Depleting Operation with Engine Running	Most recent stored 100-hour cumulative distance traveled while in charge depleting operation with engine running.
56	Lifetime Distance Traveled in Charge Depleting Operation with Engine Running	Total distance traveled while in charge depleting operation with engine running during the lifetime of the vehicle.
57	Active 100 Hour Distance Traveled in Driver-Selectable Charge Increasing Operation	Cumulative distance traveled while in driver-selectable charge increasing operation during recent operation (time < 100 hours).
58	Stored 100 Hour Distance Traveled in Driver-Selectable Charge Increasing Operation	Most recent stored 100-hour cumulative distance traveled while in driver-selectable charge increasing operation.
59	Lifetime Distance Traveled in Driver-Selectable Charge Increasing Operation	Total distance traveled while in driver-selectable charge increasing operation during the lifetime of the vehicle.
60	Active 100 Hour Fuel Consumed in Charge Depleting Operation	Cumulative fuel consumption during charge-depleting operation during recent operation (time < 100 hours).
61	Stored 100 Hour Fuel Consumed in Charge Depleting Operation	Most recent stored 100-hour cumulative fuel consumed during charge-depleting operation.
62	Lifetime Fuel Consumed in Charge Depleting Operation	Total fuel consumption during charge-depleting operation during the lifetime of the vehicle.
63	Active 100 Hour Fuel Consumed in Driver-Selectable Charge Increasing Operation	Cumulative fuel consumption during driver-selectable charge increasing operation during recent operation (time < 100 hours).
64	Stored 100 Hour Fuel Consumed in Driver-Selectable Charge Increasing Operation	Most recent stored 100-hour cumulative fuel consumed during charge-depleting operation.
65	Lifetime Fuel Consumed in Driver-Selectable Charge Increasing Operation	Total fuel consumption during driver-selectable charge increasing operation during the lifetime of the vehicle.
66	Active 100 Hour Grid Energy Consumed in Charge Depleting Operation with Engine off	Cumulative grid energy supplied by the battery pack in charge depleting operation with engine off during recent operation (time < 100 hours).

67	Stored 100 Hour Grid Energy Consumed in Charge Depleting Operation with Engine off	Most recent stored 100-hour cumulative grid energy consumed during charge depleting operation with engine off.
68	Lifetime Grid Energy Consumed in Charge Depleting Operation with Engine off	Total grid energy supplied by the battery pack in charge depleting operation with engine off during the lifetime of the vehicle.
69	Active 100 Hour Grid Energy Consumed in Charge Depleting Operation with Engine Running	Cumulative grid energy supplied by the battery pack in charge depleting operation with engine running during recent operation (time < 100 hours).
70	Stored 100 Hour Grid Energy Consumed in Charge Depleting Operation with Engine Running	Most recent stored 100-hour cumulative grid energy consumed during charge depleting operation with engine running.
71	Lifetime Grid Energy Consumed in Charge Depleting Operation with Engine Running	Total grid energy supplied by the battery pack in charge depleting operation with engine running during the lifetime of the vehicle.
72	Active 100 Hour Grid Energy into the Battery	Cumulative grid energy into the battery during recent operation (time < 100 hours).
73	Stored 100 Hour Grid Energy into the Battery	Most recent stored 100-hour cumulative grid energy into the Battery.
74	Lifetime Grid Energy into the Battery	Total grid energy into the battery during the lifetime of the vehicle.
75	Active 100 Hour Propulsion System Active Time	Cumulative propulsion system active time during recent operation (time < 100 hours).
76	Stored 100 Hour Recent Propulsion System Active Time	Most recent stored cumulative propulsion system active time during 100 hours of engine operation.
77	Lifetime Propulsion System Active Time	Total propulsion system active time during the lifetime of the vehicle.
78	Active 100 Hour Idle Propulsion System Active Time (<= 1 mph)	Cumulative idle propulsion system active time during recent operation (time < 100 hours).
79	Stored 100 Hour idle Propulsion System Active Time (<= 1 mph)	Most recent stored cumulative idle propulsion system active time during 100 hours of engine operation.
80	Lifetime Idle Propulsion System Active Time (<= 1 mph)	Total idle propulsion system active time during the lifetime of the vehicle.
81	Active 100 Hour Urban Propulsion System Active Time (1 mph < X <= 40 mph)	Cumulative urban propulsion system active time during recent operation (time < 100 hours).
82	Stored 100 Hour Urban Propulsion System Active Time (1 mph < X <= 40 mph)	Most recent stored cumulative urban propulsion system active time during 100 hours of engine operation.
83	Lifetime Urban Propulsion System Active Time (1 mph < X <= 40 mph)	Total urban propulsion system active time during the lifetime of the vehicle.