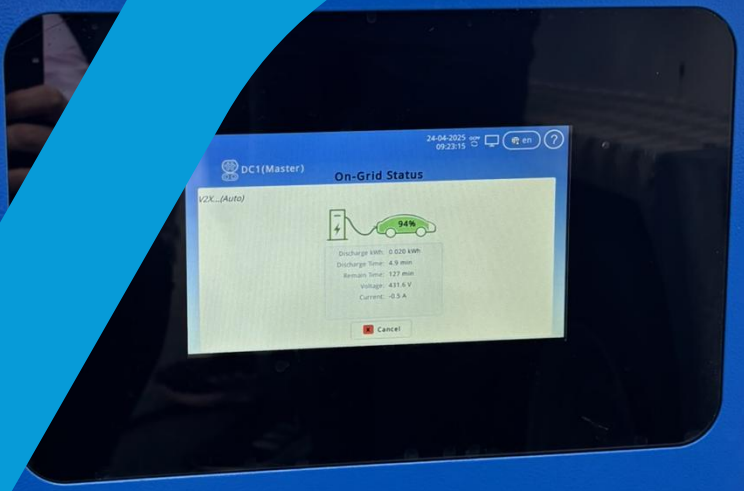


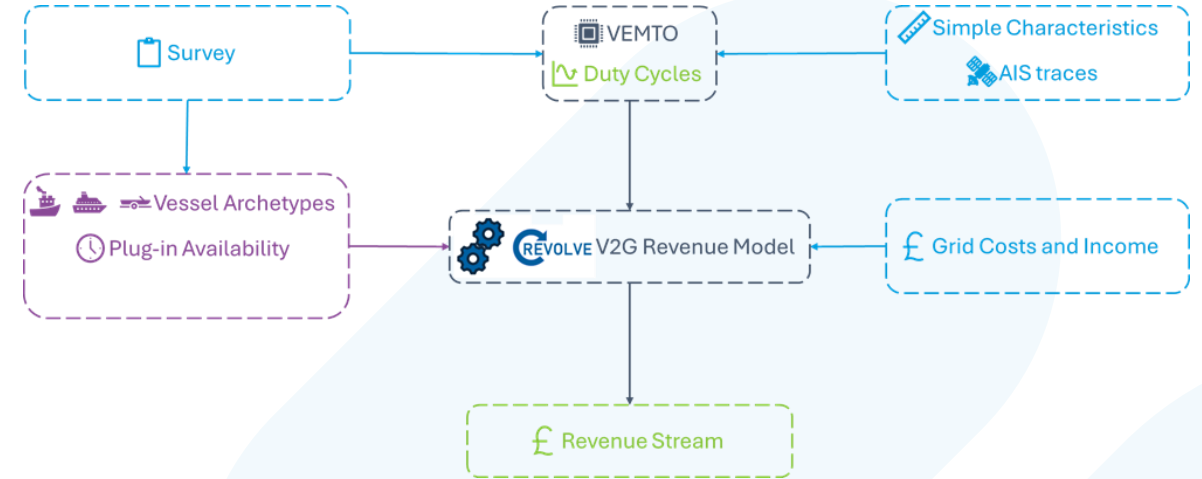
XP Expert In Charging Solutions



VBEV Demonstrator

Navigating Technology Transfer

Watt's a VBEV?



The Virtual Bunkering of Electric Vessels (VBEV) Demonstration Project was part of the Clean Maritime Demonstration Competition Round 4 (CMD4), funded by the UK Department for Transport (DfT) and delivered by Innovate UK. CMD4 was part of the Department's UK Shipping Office for Reducing Emissions (UK SHORE) programme, a £206m initiative focused on developing the technology necessary to decarbonise the UK domestic maritime sector.






**Funded by
UK Government**



cenex

V2G Pain

Comms Standard	Direction			
15118-2	Charge	Y	Y	Y
	“Discharge”	N	Y	Y
15118-20	Charge	Y	N	Y
	Discharge	Y	N	Y





BLUEGRID⁺

CanUK Vessel-to-Grid Project

Projet Navire à réseau CanRU



ELECTRIC
BOATS

AQUA
SOLUTIONS

UNIVERSITY OF
PLYMOUTH

RAD
PROPULSION

DALHOUSIE
UNIVERSITY

COVE



CANADA'S OCEAN
SUPERCLUSTER



Take-away

INTERNATIONAL
STANDARD

**ISO
15118-2**

First edition
2014-04-01

Road vehicles — Vehicle-to-Grid
Communication Interface —
Part 2:
Network and application protocol
requirements

Véhicules routiers — Interface de communication entre véhicule et
réseau électrique —
Partie 2: Exigences du protocole d'application et du réseau



Reference number
ISO 15118-2:2014(E)

© ISO 2014

INTERNATIONAL
STANDARD

**ISO
15118-20**

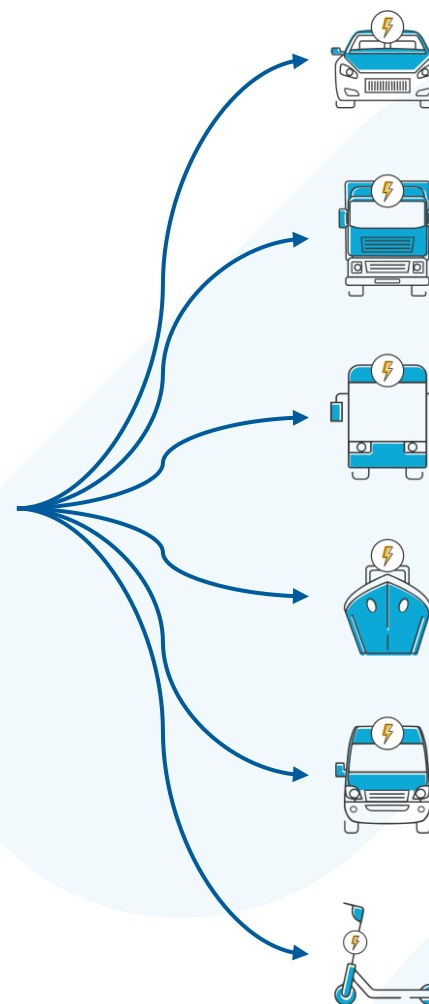
First edition
2022-04

Road vehicles — Vehicle to grid
communication interface —
Part 20:
2nd generation network layer and
application layer requirements

Véhicules routiers — Interface de communication entre véhicule et
réseau électrique —
Partie 20: Exigences des couches réseau et application de 2ème
génération

Reference number
ISO 15118-20:2022(E)

© ISO 2022



Thank you
for your
time



 Transport

 Energy
Infrastructure

 Knowledge
& Enterprise

www.cenex.co.uk