Verifying an e-Tag Database

You are verifying the emissions data report of a marketer of electricity, (EZ Electricity, PSE Code: EZE) who imports and exports power from California. You are currently reviewing a copy of workbook 1 which was uploaded to create their emissions data report. You have also requested and received a copy of their raw e-Tag data, in spreadsheet format, which includes **all** transactions where EZE was a PSE on **any** leg of the transaction.

The follow table includes ALL e-Tag data for which EZE is listed as the PSE.
GCA = generation control area; LCA = load control area; PST = Pacific Standard Time; PSE = purchasing-selling entity; POR = point of receipt; POD = point of delivery

#	TAG CODE	GCA	LCA	Start PST	Stop PST	MWh	PSE	POR	POD
1	MQF323	GWA	CISO	1/1_3:00	1/1_4:00	95	NATU01	GLWND1	
	MQF323	GWA	CISO	1/1_3:00	1/1_4:00	95	MSCG01	GLWND1	BPAT
	MQF323	GWA	CISO	1/1_3:00	1/1_4:00	95	MSCG01	BPAT	CaptainJack
	MQF323	GWA	CISO	1/1_3:00	1/1_4:00	95	EZE	Captain Jack	NP15
	MQF323	GWA	CISO	1/1_3:00	1/1_4:00	95	SMUD01	NP15	
2	1447852	PGE	CISO	1/1_23:00	1/2_0:00	500	PGEMPG	PGEGEN	
	1447852	PGE	CISO	1/1_23:00	1/2_0:00	500	PGEMPG	PGEGEN	Malin500
	1447852	PGE	CISO	1/1_23:00	1/2_0:00	500	EZE	MALIN500	RDM230
	1447852	PGE	CISO	1/1_23:00	1/2_0:00	500	PG&E	RDM230	CTW230
	1447852	PGE	CISO	1/1_23:00	1/2_0:00	500	PG&E	CTW230	
3	Z28548	PSEI	SRP	1/11_4:00	1/11_5:00	210	VNTG01	WINDRIDGE	
	Z28548	PSEI	SRP	1/11_4:00	1/11_5:00	210	PWX01	WINDRIDGE	NOB
	Z28548	PSEI	SRP	1/11_4:00	1/11_5:00	210	EZE	NOB	SYLMAR
	Z28548	PSEI	SRP	1/11_4:00	1/11_5:00	210	EZE	SYLMAR	FourCorners 345
	Z28548	PSEI	SRP	1/11_4:00	1/11_5:00	210	SRP	FourCorners345	PVWEST
	Z28548	PSEI	SRP	1/11_4:00	1/11_5:00	210	SRP	PVWEST	
4	IR4475	BPAT	CISO	1/17_11:00	1/17_12:00	200	PPMIRT	LeanJnpr2	
	IR4475	BPAT	CISO	1/17_11:00	1/17_12:00	200	EZE	LeanJnpr2	LaGrande
	IR4475	BPAT	CISO	1/17_11:00	1/17_12:00	200	EZE	LaGrande	CaptainJack
	IR4475	BPAT	CISO	1/17_11:00	1/17_12:00	200	SPPS1	CaptainJack	
5	144782	CISO	SRP	1/17_16:00	1/17_21:00	250	PAC01	Devers230	
	144782	CISO	SRP	1/17_16:00	1/17_21:00	250	EZE	Devers230	Eldorado
	144782	CISO	SRP	1/17_16:00	1/17_21:00	250	EZE	Eldorado	PVWEST
	144782	CISO	SRP	1/17_16:00	1/17_21:00	250	AZPS	PVWEST	
	MER9966	CISO	SPPC	2/21_13:00	2/21_14:00	150	MCPI01	MossLndng	
	MER9966	CISO	SPPC	2/21_13:00	2/21_14:00	150	EZE	MossLndng	NP15

6	MER9966	CISO	SPPC	2/21_13:00	2/21_14:00	150	EZE	NP15	Marble60
	MER9966	CISO	SPPC	2/21_13:00	2/21_14:00	150	EZE	Marble60	SUMMIT120
	MER9966	CISO	SPPC	2/21_13:00	2/21_14:00	150	SRP	SUMMIT120	
#	**TAG CODE**	**GCA**	**LCA**	**Start PST**	**Stop PST**	**MWh**	**PSE**	**POR**	**POD**
7	QC53981	BPAT	PACW	6/11_21:00	6/11_23:00	63	BPAT	JnprCnynBPA	
	QC53981	BPAT	PACW	6/11_21:00	6/11_23:00	63	EZE	JnprCnyn BPA	JohnDay
	QC53981	BPAT	PACW	6/11_21:00	6/11_23:00	63	EZE	JohnDay	Malin230
	QC53981	BPAT	PACW	6/11_21:00	6/11_23:00	63	PPMIRT	MALIN230	
8	IBR1754	BPAT	CISO	7/8_11:00	7/8_19:00	160	PACW	KFallsGen	
	IBR1754	BPAT	CISO	7/8_11:00	7/8_19:00	160	PACW	KFallsGen	Malin500
	IBR1754	BPAT	CISO	7/8_11:00	7/8_19:00	160	EZE	Malin500	Hilltop345
	IBR1754	BPAT	CISO	7/8_11:00	7/8_19:00	160	EZE	HILLTOP 345	NP15
	IBR1754	BPAT	CISO	7/8_11:00	7/8_19:00	160	PG&E	NP15	
9	QC07107	IID	LDWP	7/9_22:00	7/9_23:00	300	PPMIRT	Devers230	
	QC07107	IID	LDWP	7/9_22:00	7/9_23:00	300	PPMIRT	Devers230	ElDorado 230
	QC07107	IID	LDWP	7/9_22:00	7/9_23:00	300	EZE	ElDorado 230	NOB
	QC07107	IID	LDWP	7/9_22:00	7/9_23:00	300	EZE	NOB	Sylmar
	QC07107	IID	LDWP	7/9_22:00	7/9_23:00	300	LDWP	Sylmar	
10	IBR1754	BPAT	CISO	7/8_11:00	7/8_19:00	200	PACW	PGEGEN	
	IBR1754	BPAT	CISO	7/8_11:00	7/8_19:00	200	PACW	PGEGEN	Malin500
	IBR1754	BPAT	CISO	7/8_11:00	7/8_19:00	200	EZE	Malin500	RDM230
	IBR1754	BPAT	CISO	7/8_11:00	7/8_19:00	200	EZE	RDM230	NP15
	IBR1754	BPAT	CISO	7/8_11:00	7/8_19:00	200	PG&E	NP15	

Here are the applicable parts of EZE's workbook 1.

Unspecified Imports

Ref.#	Aggregated By First Point of Receipt (POR) on NERC e-tag at, or near, the Source per 95111(a)(3) [Input First POR Code]	MWh Measured at First Point of Delivery (POD)	Transmission loss correction factor (1.02)	[EFunsp] Default emission factor for unspecified imports	[CO2e] Annual CO2 equivalent mass emissions (MT CO2e)
A	PGEGEN	500	1.02	0.428	218
B	KFallsGen	160	1.02	0.428	69.8
C	Devers230	300	1.02	0.428	131

Specified Imports

Ref.#	**Facility and Unit ID Name** (select "Other" if not listed)	ARB Facility and Unit ID#	Aggregated By First Point of Receipt (POR) on NERC e-tag at, or near, the Source per 95111(a)(3)	Measured at busbar, Yes/No	MWh as measured at the Busbar or at the First Point of Delivery (POD) inside California per 95111(a)(4)(A)(2) on NERC e-tag	**[TL]** Transmission loss correction factor, = 1.00 or 1.02 (MWh must include transmission loss factor (*1.02) if not measured at busbar or if supplied by BPA)	**[EF_{sp} : CO2e total]** Facility-specific or unit-specific emission factor published on the ARB Mandatory Reporting website, (MT CO_2e/MWh)
D	Glacier Wind Farm (Naturener)	800032-000	GLWND1	Yes	100	1.00	0.000

Exports (not part of covered emissions calculation)

Ref.#	Aggregated By Final Point of Delivery (POD) on NERC e-tag at, or near, the Sink per 95111(a)(6) [Input Final POD Code]	MWh Measured at Last Point of Delivery (POD) inside California per 95111(a)(6)(A) on NERC e-tag in the Energy and Transmission Profiles, MWh Total	**[TL]** Transmission loss correction factor (1.00)	**[EF_{unsp}]** Default emission factor for unspecified electricity, (MT CO_2e/MWh)	**[CO_2e]** Annual CO_2 equivalent mass emissions from the unspecified electricity deliveries at each point of receipt identified (MT CO_2e)
E	MCCULLOUG230	250	1.00	0.428	107.0

No Wheels Reported

Total covered emissions, as reported: 418.8 $MTCO_2e$

The following table is a list of locations of POR/POD with regard to the California border.

Intertie	Inside/Outside	Intertie	Inside/Outside
BLYTH161	Inside	M345	Outside
BPAT	Outside	Malin500	Outside
BRDY	Outside	Marble60	Inside
CaptainJack	Outside	Mccullough230	Outside
CTW230	Inside	MIDC	Outside
Devers230	Outside	MossLndng	Inside
DEVERS500	Inside	NOB	Outside
Eldorado230	Outside	NP15	Inside
ElDorado500	Outside	PGEGEN	Outside
FourCorners345	Outside	PVWEST	Outside
GLWND1	Outside	RDM230	Inside
Hilltop345	Inside	RDM500	Inside
JnprCnynBPA	Outside	SP15	Inside
JohnDay	Outside	SUMMIT120	Outside
KFallsGen	Outside	SYLMAR	Inside
LaGrande	Outside	WINDRIDGE	Outside
LeanJnpr2	Outside		

Using the data provided:

- Identify any issues in the emissions data report. Is there any additional information you need to verify the transactions reported? You may refer to tagged transactions and reported transactions by their corresponding numbers/letters shown in the left column, e.g, “#X should be reported as an export”

- Re-calculate emissions and calculate the percent error.

- If the reporting entity does not make modifications to their emissions data report, what emissions data verification statement would you submit?