

APPENDIX 13.4.2 - Traffic Calculations

AM GENERATION - HCV

Year	Additional Tonnage	HCV Trip	No. HCV Arrivals	HCV Trip	No. HCV Departures
		Rate Per 100,000 Tonnes		Rate per 100,000 Tonnes	
2015	20,436	1.185	0	1.448	0
2016	637,500	1.185	8	1.448	9
2021	917,500	1.185	11	1.448	13
2031	1,322,000	1.185	16	1.448	19
2031 (sens)	1,850,000	1.185	22	1.448	27

Year	Additional Site Area (Ha)	Trip Rate per	No. HCV Arrivals	Trip Rate per	No. HCV Departures
		Additional Ha		Additional Ha	
2015	0	0.101	0	0.152	0
2016	0	0.101	0	0.152	0
2021	18.47	0.101	2	0.152	3
2031	18.47	0.101	2	0.152	3
2031 (sens)	18.47	0.101	2	0.152	3

Year	No. Berths	Trip Rate per	No. HCV Arrivals	Trip Rate per	No. HCV Departures
		Berths		Berths	
2015	0	0	0	0	0
2016	0	0	0	0	0
2021	216	0	0	0	0
2031	216	0	0	0	0
2031 (sens)	216	0	0	0	0

AM GENERATION - CARS & LGV

Year	Additional Site Area (Ha)	Trip Rate per	No. CARS & LGV Arrivals	Trip Rate per	No. CARS & LGV Departures
		Additional Ha		Additional Ha	
2015	0	1.114	0	0.203	0
2016	0	1.114	0	0.203	0
2021	18.47	1.114	21	0.203	4
2031	18.47	1.114	21	0.203	4
2031 (sens)	18.47	1.114	21	0.203	4

Year	Additional Site Area (Ha)	Trip Rate per	No. CARS & LGV Arrivals	Trip Rate per	No. CARS & LGV Departures
		Additional Ha		Additional Ha	
2015	0	2.736	0	0.405	0
2016	0	2.736	0	0.405	0
2021	18.47	2.736	51	0.405	7
2031	18.47	2.736	51	0.405	7
2031 (sens)	18.47	2.736	51	0.405	7

Year	No. Berths	Trip Rate per	No. CARS & LGV Arrivals	Trip Rate per	No. CARS & LGV Departures
		per Berths		per Berths	
2015	0	0.046	0	0.027	0
2016	0	0.046	0	0.027	0
2021	216	0.046	10	0.027	6
2031	216	0.046	10	0.027	6
2031 (sens)	216	0.046	10	0.027	6

PM GENERATION - HCV

Year	Additional Tonnage	HCV Trip	No. HCV Arrivals	HCV Trip	No. HCV Departures
		Rate Per 100,000 Tonnes		Rate per 100,000 Tonnes	
2015	20,436	0.922	0	0.790	0
2016	637,500	0.922	6	0.790	5
2021	917,500	0.922	8	0.790	7
2031	1,322,000	0.922	12	0.790	10
2031 (sens)	1,850,000	0.922	17	0.790	15

Year	Additional Site Area (Ha)	Trip Rate per	No. HCV Arrivals	Trip Rate per	No. HCV Departures
		Additional Ha		Additional Ha	
2015	0	0.000	0	0.000	0
2016	0	0.000	0	0.000	0
2021	18.47	0.000	0	0.000	0
2031	18.47	0.000	0	0.000	0
2031 (sens)	18.47	0.000	0	0.000	0

Year	No. Berths	Trip Rate per	No. HCV Arrivals	Trip Rate per	No. HCV Departures
		Berths		Berths	
2015	0	0	0	0	0
2016	0	0	0	0	0
2021	216	0	0	0	0
2031	216	0	0	0	0
2031 (sens)	216	0	0	0	0

PM GENERATION - CARS & LGV

Year	Additional Site Area (Ha)	Trip Rate per	No. CARS & LGV Arrivals	Trip Rate per	No. CARS & LGV Departures
		Additional Ha		Additional Ha	
2015	0	0.203	0	1.266	0
2016	0	0.203	0	1.266	0
2021	18.47	0.203	4	1.266	23
2031	18.47	0.203	4	1.266	23
2031 (sens)	18.47	0.203	4	1.266	23

Year	Additional Site Area (Ha)	Trip Rate per	No. CARS & LGV Arrivals	Trip Rate per	No. CARS & LGV Departures
		Additional Ha		Additional Ha	
2015	0	0.507	0	2.128	0
2016	0	0.507	0	2.128	0
2021	18.47	0.507	9	2.128	39
2031	18.47	0.507	9	2.128	39
2031 (sens)	18.47	0.507	9	2.128	39

Year	No. Berths	Trip Rate per	No. CARS & LGV Arrivals	Trip Rate per	No. CARS & LGV Departures
		per Berths		per Berths	
2015	0	0.073	0	0.102	0
2016	0	0.073	0	0.102	0
2021	216	0.073	16	0.102	22
2031	216	0.073	16	0.102	22
2031 (sens)	216	0.073	16	0.102	22

APPENDIX 13.4.2 - Traffic Calculations

CRUISE LINER	Typical Cruise Ship	845 Passengers	
	Bus Tours (Connemara, Cliffs of Moher, etc)	70%	592
	Walking Tours of Galway City	15%	127
	Remain on Ship	15%	127
Estimate of Bus Trips	Occupancy of Assume	52 equates to 50% in both AM & PM Peak	12 Buses - But not all Arriving & Departing in Peak
Estimate of Taxi Trips	20%	25 Taxis	Occupancy of 2 equates to 6 Buses Arriving & Departing
Service Vehicles	Estimate	5 LGV Arriving & Departing	13 Taxis Arriving & Departing

	AM Traffic Generation					PM Traffic Generation				
	Year	Car & LGV Arrivals	Bus Arrivals	Car & LGV Departures	Bus Departures	Year	Car & LGV Arrivals	Bus Arrivals	Car & LGV Departures	Bus Departures
CRUISE LINER	2015	0	0	0	0	2015	0	0	0	0
	2016	18	6	18	6	2016	18	6	18	6
	2021	18	6	18	6	2021	18	6	18	6
	2031	18	6	18	6	2031	18	6	18	6
	2031 (sense)	18	6	18	6	2031 (sens)	18	6	18	6

	AM ARRIVALS				AM DEPARTURES				
	Year	Car & LGV (No.)	Buses (No.)	HCVs (No.)	Total Arrivals	Car & LGV (No.)	Buses (No.)	HCVs (No.)	Total Arrivals
TOTAL	2016	18	6	8	32	18	6	9	33
	2021	100	6	13	119	35	6	16	57
	2031	100	6	18	124	35	6	22	63
	2031 (Sens)	100	6	24	130	35	6	30	71

	PM ARRIVALS				PM DEPARTURES				
	Year	Car & LGV (No.)	Buses (No.)	HCVs (No.)	Total Arrivals	Car & LGV (No.)	Buses (No.)	HCVs (No.)	Total Arrivals
	2016	18	6	6	30	18	6	5	29
	2021	47	6	8	61	102	6	7	115
	2031	47	6	12	65	102	6	10	118
	2031 (Sens)	47	6	17	70	102	6	15	123

	AM ARRIVALS				AM DEPARTURES				
	Year	Car & LGV (No.)	Buses (No.)	HCVs (No.)	Total Arrivals	Car & LGV (No.)	Buses (No.)	HCVs (No.)	Total Arrivals
CONSTRUCTION	2011	75	0	14	89	15	0	14	29
	2016	75	0	8	83	15	0	8	23
	2021	75	0	4	79	15	0	4	19

	PM ARRIVALS				PM DEPARTURES				
	Year	Car & LGV (No.)	Buses (No.)	HCVs (No.)	Total Arrivals	Car & LGV (No.)	Buses (No.)	HCVs (No.)	Total Arrivals
	2011	15	0	14	29	75	0	14	89
	2016	15	0	8	23	75	0	8	83
	2021	15	0	4	19	75	0	4	79

	AM ARRIVALS				AM DEPARTURES				
	Year	Car & LGV (No.)	Buses (No.)	HCVs (No.)	Total Arrivals	Car & LGV (No.)	Buses (No.)	HCVs (No.)	Total Arrivals
TOTAL, INC CONSTRUCTION	2016	93	6	16	115	33	6	17	56
	2021	175	6	17	198	50	6	20	76
	2031	100	6	18	124	35	6	22	63
	2031 (Sens)	100	6	24	130	35	6	30	71

	PM ARRIVALS				PM DEPARTURES				
	Year	Car & LGV (No.)	Buses (No.)	HCVs (No.)	Total Arrivals	Car & LGV (No.)	Buses (No.)	HCVs (No.)	Total Arrivals
	2016	33	6	14	53	93	6	13	112
	2021	62	6	12	80	177	6	11	194
	2031	47	6	12	65	102	6	10	118
	2031 (Sens)	47	6	17	70	102	6	15	123