

Chirk CHP - Fuel & Transport Impact

		CY 2021		CY 2022		CY 2023		Avg 2021-2023		Future CHP			Transport Impact (Loads)			Transport Impact (Loads)
	Current Status	Wet Tonne	Loads	Wet Tonne	Loads	Wet Tonne	Loads	Wet Tonne	Loads	Wet Tonne	Loads	T/load	CY 2021	CY 2022	CY 2023	Avg 2021-2023
Boiler Ash *	Offsite Disposal	3,206	198	3,001	204	3,248	245	3,152	216	36,500	1,825	20.00	1,627	1,621	1,580	1,609
Lime / Additives		-	-	-	-	-	-	-	-	18,250	830	22.00	830	830	830	830
* Apportioned for K7 only																
Bark	Offsite Disposal	58,727	2,382	53,213	2,163	50,625	2,086	54,188	2,210				-	2,382	-	2,210
MDF Rejects	Offsite Disposal	12,849	520	15,192	610	8,739	356	12,260	495				-	520	-	495
Wood Dust	Offsite Disposal	12,001	454	9,091	413	10,535	583	10,542	483				-	454	-	483
SOURCE A - EXISTING ON-SITE PROCESS RESIDUES CURRENTLY SOLD		83,577		77,495		69,900		76,991					-	3,356	-	3,189
K7 - Grate Fuel	Consumed Onsite	54,000		50,000		49,000		51,000					-	-	-	-
K7 - Granulate Fuel	Consumed Onsite	8,500		9,000		8,500		8,667					-	-	-	-
K7 - Dust Fuel	Consumed Onsite	16,000		15,000		14,000		15,000					-	-	-	-
SOURCE B - K7 BIOMASS BOILER INTERNALLY FUELLED		78,500		74,000		71,500		74,667					-	-	-	-
* K7 becomes a backup only boiler and only operates if K8 or CHP not operational, therefore fuel is available.																
PB less finer fractions in board	Consumed Onsite	73,585		67,638		75,669		72,297	-				-	-	-	-
PB less finer fractions in board - Increase from Higher Recycled	Consumed Onsite	44,599		37,216		26,658		36,158	-				-	-	-	-
SOURCE C - OTHER ON-SITE PROCESS RESIDUES		118,184		104,853		102,328		108,455								
TOTAL OF SOURCES A, B AND C		280,262		256,349		243,727		260,113								
MAXIMUM THROUGHPUT CAPACITY OF FUTURE CHP		293,000		293,000		293,000		293,000								
CHP Fuel - Onsite		280,262		256,349		243,727		260,113		-			-	3,356	-	3,189
CHP Boiler Fuel / Additives		3,206		3,001		3,248		3,152		54,750			2,456	2,450	2,409	2,439
Net Transport Impact													-	900	-	750
REMAINDER																
A - IMPORT FORESTRY BRASH FOR DIRECT USE IN CHP - 50%		6,369	255	18,326	733	24,636	985	16,444	658				255	733	985	658
B - INCREASE ON-SITE PRODUCTION - 25% - Includes raw material transport (associated with initial on-site processes)		3,185	796	9,163	2,291	12,318	3,080	8,222	2,055				796	2,291	3,080	2,055
C - IMPORT GRADE C FOR DIRECT USE IN CHP - 25%		3,185	159	9,163	458	12,318	616	8,222	411				159	458	616	411
CHP Fuel		293,000		293,000		293,000		293,000		-			-	2,146	296	1,656
CHP Boiler Ash / Additives		3,206		3,001		3,248		3,152		54,750			2,456	2,450	2,409	2,439
Net Transport Impact													310	2,746	4,065	2,374