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/arious pub	lications with	า LCA ana	alysis comparin	g all ki	nd of tr	aditional
tructures w	vith geosynth	netic desi	gns.	-		
			5113.			
			Case History	Traditio	nal Approach	Geosynthetic Approach
oplication Area No.	Cases Described Average Car	bon Savings		CO <sub>2</sub> Footprint (tons)		CO <sub>2</sub> Footprint (tons)
alls	6	69%	#1 Slope Stability	#1 Slope Stability 157		21
nbankments and		650(	#2 Bridge Approach	500		346
opes	4	65%	#3 Crib Wall	Crib Wall 35		11
moring	4	76%	#4 Sheet Piling Wall	433		69
ndfill Covers	3	75%	#5 Concrete Wall	107		20
ndfill Liners	2	30%	Waste and Resources Action Program (WRA			AP), 2010
etention	3	61%		Savings compared to		
rainage Pipe	3	40%	traditional structures		uctures	
DIALS	25	65%	Application	Energy	CO <sub>2</sub>	
				consumption	emission	
RI-24 Conference on Sustainability, 2011			Separation material in a	85%	89%	
			road construction	E 10%	229/	
Savings depending on the application:			reinforcement	5-10%	5270	
Savings depending on the application.		Drainage laver	56%	67%		
			Retaining wall	85%	75%	
CO <sub>2</sub> -emission	30 – 89 %		Stücki et al., 2019			
Energy	up to 85 %					

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