

IVL Year end installed Capacities based on announcements made							
Years	2016A	2017A	2018E	Yr '18 % of IVL	2019E	2020E	2021E

Qty in Kt

**Consolidated in the Company**

Oxide & Glycols	550	550	550	4%	550	550	550
America	550	550	550	4%	550	550	550
Mix Feed Cracker			440	3%	440	440	440
America			440	3%	440	440	440
PET Resins	4,291	4,070	5,238	39%	6,114	6,148	6,148
China	545	523	569	4%	582	582	582
Europe	1,506	1,378	1,401	11%	1,448	1,463	1,463
Indonesia	190	197	201	2%	201	201	201
MENA	73	73	617	5%	628	628	628
America	1,566	1,486	2,036	15%	2,054	2,060	2,060
India	-	-	-	0%	721	721	721
Thailand	411	414	414	3%	481	494	494
PET Packaging	139	182	259	2%	276	282	295

Fibers (Polyester,PP, Nylon 66 etc)	1,566	1,618	1,812	14%	1,847	1,876	1,895
China	68	65	114	1%	123	128	129
Europe	447	513	595	4%	606	611	619
Indonesia	436	436	404	3%	404	405	404
MENA	-	-	48	0%	48	48	48
America	259	292	332	3%	340	358	370
India	-	-	10	0%	10	10	10
Thailand	356	312	309	2%	315	316	315

PTA	3,698	4,018	4,741	36%	4,741	4,741	4,741
Europe	705	1,025	1,735	13%	1,735	1,735	1,735
America	1,620	1,620	1,633	12%	1,633	1,633	1,633
Thailand	1,373	1,373	1,373	10%	1,373	1,373	1,373

Purified Isophthelic Acid (IPA)	220	220	220	2%	220	220	220
Europe	220	220	220	2%	220	220	220

Fibers (Wool)	6	6	6	0%	6	6	6
Thailand	6	6	6	0%	6	6	6

IVL	10,470	10,665	13,266	100%	14,193	14,263	14,295
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ASIA	33%	32%	27%		31%	31%	31%
EMEA	29%	31%	35%		34%	34%	34%
America	38%	37%	38%		35%	35%	35%

PET Incl. Pckg	4,430	4,253	5,497	41%	6,390	6,430	6,443
ASIA	28%	30%	25%		34%	34%	34%
EMEA	37%	36%	38%		34%	34%	34%
America	35%	35%	37%		32%	32%	32%
Fibers & Yarns (Incl. Wool)	1,572	1,624	1,818	14%	1,853	1,882	1,901
ASIA	55%	50%	46%		46%	46%	45%
EMEA	28%	32%	35%		35%	35%	35%
America	16%	18%	18%		18%	19%	19%
Feedstock	4,468	4,788	5,951	45%	5,951	5,951	5,951
ASIA	31%	29%	23%		23%	23%	23%
EMEA	21%	26%	33%		33%	33%	33%
America	49%	45%	44%		44%	44%	44%

**Joint Ventures-Equity Accounting (% of IVL share)**

Joint Ventures	604	605	739	100%	390	390	390
PET	348	349	349	47%	-	-	-
India	348	349	349	47%	-	-	-
Fibers & Yarns	20	20	20	3%	20	20	20
China	12	12	12	2%	12	12	12
Thailand	7	7	7	1%	7	7	7
PTA	236	236	370	50%	370	370	370
Indonesia	236	236	370	50%	370	370	370

**Theoretical RM requirement**

**on 2018 capacity @ 90% utilization**

PTA	MEG	PX	IPA	Ethylene	PTA	MEG	PX	IPA	Ethylene
Requirement				287	Production				
				287		297			
								360	
								360	
3,902	1,626		93						
430	179		10						
1,059	441		25						
152	63		4						
408	170		10						
1,539	641		37						
-	-		-						
313	130		7						
779	317								
50	20								
95	39								
313	127								
-	-								
82	33								
-	-								
239	97								
		2,816			4,267		648		
		1,030			1,561				
		970			1,470		648		
		816			1,236				
								198	
								198	
4,681	1,943	2,816	93	287	4,267	297	648	198	360
1,497	618	816	21	-	1,236	-	-	-	-
1,562	650	1,030	35	-	1,561	-	-	198	-
1,621	675	970	37	287	1,470	297	648	-	360

Raw Material (RM) Integration %		
PTA Global Integration %		91%
MEG Global Integration %		15%
IPA Global Integration %		100%
PX Global Integration %		23%
Theoretical PTA buying in KT		414
Theoretical MEG buying in KT		1,646
Theoretical PX buying in KT		2,168
Theoretical IPA buying in KT		-
Theoretical Ethylene buying in KT		-
Theoretical RM buying in KT		4,228