

IVL Year end installed Capacities based on announcements made

Years	2015A	2016A	2017A	2018E	Yr '18 % of IVL	2019E
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Qty in kt

Consolidated in the Company

Oxide & Glycols	550	550	550	550	4%	550
America	550	550	550	550	4%	550
Mix Feed Cracker				440	3%	440
America (Project Houston)				440	3%	440
PET Resins	4,262	4,291	4,070	5,238	40%	6,114
China	548	545	523	569	4%	582
Europe	930	1,119	1,122	1,667	13%	1,714
Indonesia	193	190	197	201	2%	201
MENA	464	460	329	350	3%	361
America	1,518	1,566	1,486	2,036	16%	2,054
India	216	-	-	-	0%	721
Thailand	393	411	414	414	3%	481
PET Packaging	110	139	182	320	2%	356
Fibers (Polyester, PP, Nylon 66 etc)	1,492	1,566	1,618	1,557	12%	1,592
China	54	68	65	75	1%	84
Europe	420	447	513	515	4%	526
Indonesia	429	436	436	404	3%	404
America	237	259	292	254	2%	262
Thailand	352	356	312	309	2%	315
PTA	2,357	3,698	4,018	4,741	36%	4,741
Europe	380	705	1,025	1,735	13%	1,735
America	600	1,620	1,620	1,633	12%	1,633
Thailand	1,377	1,373	1,373	1,373	11%	1,373
Purified Isophthelic Acid (IPA)		220	220	220	2%	220
Europe		220	220	220	2%	220
Fibers (Wool)	6	6	6	6	0%	6
Thailand	6	6	6	6	0%	6
IVL	8,776	10,470	10,665	13,071	100%	14,018
ASIA					31%	
EMEA					34%	
America					35%	

PET Incl. Pckg	4,372	4,430	4,253	5,558	43%	6,470
ASIA	31%	26%	30%	24%		33%
EMEA	32%	36%	36%	39%		35%
America	35%	35%	35%	37%		32%
Fibers & Yarns (Incl. Wool)	1,498	1,572	1,624	1,563	12%	1,598
ASIA	41%	32%	32%	27%		31%
EMEA	28%	28%	32%	33%		33%
America	16%	16%	18%	16%		16%
Feedstock	2,907	4,468	4,788	5,951	46%	5,951
ASIA	47%	31%	29%	23%		23%
EMEA	13%	21%	26%	33%		33%
America	40%	49%	45%	44%		44%

Joint Ventures-Equity Accounting (% of IVL share)

Joint Ventures	230	604	605	605	100%	256
PET	-	348	349	349	58%	-
India		348	349	349	58%	-
Fibers & Yarns	12	20	20	20	3%	20
China	12	12	12	12	2%	12
Thailand		7	7	7	1%	7
PTA	218	236	236	236	39%	236
Indonesia	218	236	236	236	39%	236

Theoretical RM requirement

on 2018 capacity @ 90% utilization

PTA	MEG	PX	IPA	Ethylene	PTA	MEG	PX	IPA	Ethylene
Requirement					Production				
				287		297			
				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