

IVL Year end installed Capacities based on announcements made

Years	2014A	2015A	2016A	2017E	Yr '17 % of IVL	2018E	2019E	2020E
Qty in kt								
Consolidated in the Company								
Oxide & Glycols	550	550	550	550	5%	550	550	550
North America	550	550	550	550	5%	550	550	550
Mix Feed Cracker					0%	440	440	440
North America (Project Houston)					0%	440	440	440
PET Resins	3,696	4,262	4,291	4,070	38%	4,142	4,258	4,258
China	550	548	545	523	5%	564	564	564
Europe	927	930	1,119	1,122	11%	1,138	1,175	1,175
Indonesia	191	193	190	197	2%	197	197	197
MENA	214	464	460	329	3%	343	343	343
North America	1,527	1,518	1,566	1,486	14%	1,486	1,486	1,486
India		216	-	-	-	-	-	-
Thailand	287	393	411	414	4%	414	494	494
PET Packaging	80	110	139	182	2%	202	207	218
PET Films					0%	110	110	110
Europe					0%	59	59	59
North America					0%	51	51	51
Fibers (Polyester, PP, Nylon 66 etc)	1,414	1,492	1,566	1,625	15%	1,647	1,663	1,674
China	13	54	68	67	1%	79	85	85
Europe	421	420	447	516	5%	517	522	524
Indonesia	425	429	436	436	4%	436	436	437
North America	203	237	259	294	3%	303	307	314
Thailand	352	352	356	312	3%	312	312	313
PTA	1,764	2,357	3,698	4,018	38%	4,718	4,718	4,718
Europe	391	380	705	1,025	10%	1,725	1,725	1,725
North America		600	1,620	1,620	18%	1,620	1,620	1,620
Thailand	1,373	1,377	1,373	1,373	13%	1,373	1,373	1,373
Purified Isophthalic Acid (IPA)			220	220	2%	220	220	220
Europe			220	220	2%	220	220	220
Fibers (Wool)	6	6	6	6	0%	6	6	6
Thailand	6	6	6	6	0%	6	6	6
IVL	7,510	8,776	10,470	10,672	100%	12,035	12,172	12,194
ASIA	43%	41%	33%	32%		29%	30%	30%
EMEA	26%	25%	29%	31%		34%	34%	34%
North America	30%	33%	38%	37%		37%	37%	37%

PET Incl. Pckg	3,776	4,372	4,430	4,253	40%	4,454	4,575	4,586
ASIA	28%	32%	28%	30%		29%	30%	30%
EMEA	31%	33%	37%	36%		36%	36%	36%
North America	40%	35%	35%	35%		35%	34%	34%
Fibers & Yarns (Incl. Wool)	1,420	1,498	1,572	1,631	15%	1,653	1,669	1,680
ASIA	56%	56%	55%	50%		50%	50%	50%
EMEA	30%	28%	28%	32%		31%	31%	31%
North America	14%	16%	16%	18%		18%	18%	19%
Feedstock	2,314	2,907	4,468	4,788	45%	5,928	5,928	5,928
ASIA	59%	47%	31%	29%		23%	23%	23%
EMEA	17%	13%	21%	26%		33%	33%	33%
North America	24%	40%	49%	45%		44%	44%	44%
PTA	1,764	2,357	3,698	4,018	38%	4,718	4,718	4,718
ASIA	78%	58%	37%	34%		29%	29%	29%
EMEA	22%	16%	19%	26%		37%	37%	37%
North America	0%	25%	44%	40%		34%	34%	34%
Purified Isophthalic Acid (IPA)			220	220	2%	220	220	220
Europe			100%	100%		100%	100%	100%
EOEG	550	550	550	550	5%	550	550	550
North America	100%	100%	100%	100%		100%	100%	100%
Mix Feed Cracker						440	440	440
North America (Project Houston)						100%	100%	100%

Joint Ventures-Equity Accounting (% of IVL share)

Joint Ventures	227	230	604	605	100%	641	641	641
PET	-	-	348	349	58%	385	385	385
India			348	349	58%	349	349	349
China					0%	36	36	36
Fibers & Yarns	12	12	20	20	3%	20	20	20
China	12	12	12	12	2%	12	12	12
Thailand			7	7	1%	7	7	7
PTA	215	218	236	236	39%	236	236	236
Indonesia	215	218	236	236	39%	236	236	236

Theoretical RM requirement

on 2017 capacity @ 90% utilization									
PTA	MEG	PX	IPA	Ethylene	PTA	PX	Ethylene	IPA	MEG
Requirement					Production				
				287					297
				287					297
									In 2018
									In 2018
3,022	1,259			72					
395	165			9					
848	353			20					
149	62			4					
193	80			5					
1,123	468			27					
-	-			-					
313	130			7					
831	370								
43	17								
95	70								
338	137								
113	46								
242	98								
		2,387							
		609							
		962							
		816							
					3,616	648			
					923				
					1,458	648			
					1,236				
									198
									198
3,853	1,629	2,387	72	287	3,616	648	In 2018	198	297
1,479	610	816	20	-	1,236	-	-	-	-
1,137	504	609	25	-	923	-	-	198	-
1,237	514	962	27	287	1,458	648	In 2018	-	297

Raw Material (RM) Integration %	PTA Global Integration %	94%
	MEG Global Integration %	18%
	IPA Global Integration %	100%
	PX Global Integration %	27%
	Theoretical PTA net buying in KT	236
	Theoretical MEG net buying in KT	1,332
	Theoretical PX buying in KT	1,739
	Theoretical Ethylene buying in KT	287
	Theoretical IPA buying in KT	-
	Theoretical RM buying in KT	3,594

400kt of Ethylene & 40kt of Propylene