

**IVL Year end installed Capacities based on announcements made**

Years	2014A	2015A	2016A	2017E	Yr '17 % of IVL	2018E	2019E
<b>Qty in kt</b>							
<b>Consolidated in the Company</b>							
Oxide & Glycols	550	550	550	550	5%	550	550
North America	550	550	550	550	5%	550	550
Mix Feed Cracker					0%	440	440
North America (Project Houston)					0%	440	440
PET Resins	3,696	4,262	4,291	4,070	38%	4,148	5,024
China	550	548	545	523	5%	569	582
Europe	927	930	1,119	1,122	11%	1,127	1,174
Indonesia	191	193	190	197	2%	201	201
MENA	214	464	460	329	3%	350	361
North America	1,527	1,518	1,566	1,486	14%	1,486	1,504
India		216	-	-	-	-	721
Thailand	287	393	411	414	4%	414	481
PET Packaging	80	110	139	182	2%	320	356
Fibers (Polyester,PP, Nylon 66 etc)	1,414	1,492	1,566	1,618	15%	1,617	1,656
China	13	54	68	65	1%	75	84
Europe	421	420	447	513	5%	515	526
Indonesia	425	429	436	436	4%	404	404
North America	203	237	259	292	3%	314	326
Thailand	352	352	356	312	3%	309	315
PTA	1,764	2,357	3,698	4,018	38%	4,741	4,737
Europe	391	380	705	1,025	10%	1,735	1,735
North America		600	1,620	1,620	18%	1,633	1,629
Thailand	1,373	1,377	1,373	1,373	13%	1,373	1,373
Purified Isophthelic Acid (IPA)			220	220	2%	220	220
Europe			220	220	2%	220	220
Fibers (Wool)	6	6	6	6	0%	6	6
Thailand	6	6	6	6	0%	6	6
IVL	7,510	8,776	10,470	10,665	100%	12,042	12,988
ASIA	43%	41%	32%	32%		29%	33%
EMEA	26%	25%	28%	31%		34%	32%
North America	30%	33%	38%	37%		37%	34%

PET Incl. Pckg	3,776	4,372	4,430	4,253	40%	4,468	5,380
ASIA	27%	31%	26%	30%		30%	40%
EMEA	30%	32%	36%	36%		36%	32%
North America	40%	35%	35%	35%		33%	28%
Fibers & Yarns (Incl. Wool)	1,420	1,498	1,572	1,624	15%	1,623	1,661
ASIA	56%	56%	55%	50%		49%	49%
EMEA	30%	28%	28%	32%		32%	32%
North America	14%	16%	16%	18%		19%	20%
Feedstock	2,314	2,907	4,468	4,788	45%	5,951	5,947
ASIA	59%	47%	31%	29%		23%	23%
EMEA	17%	13%	21%	26%		33%	33%
North America	24%	40%	49%	45%		44%	44%

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

Joint Ventures	227	230	604	605	100%	605	256
PET	-	-	348	349	58%	349	-
India			348	349	58%	349	-
Fibers & Yarns	12	12	20	20	3%	20	20
China	12	12	12	12	2%	12	12
Thailand			7	7	1%	7	7
PTA	215	218	236	236	39%	236	236
Indonesia	215	218	236	236	39%	236	236

**Theoretical RM requirement**
**on 2018 capacity @ 90% utilization**

PTA	MEG	PX	IPA	Ethylene	PTA	MEG	PX	IPA	Ethylene
<b>Requirement</b>					<b>Production</b>				
				287		297			
				287		297			
								360	
								360	
3,078	1,282		73						
430	179		10						
852	355		20						
152	63		4						
207	86		5						
1,123	468		27						
-	-		-						
313	130		7						
826	336								
50	20								
95	39								
313	127								
129	52								
239	97								
		2,816			4,267		648		
		1,030			1,561				
		970			1,470		648		
		816			1,236				
								198	
								198	
3,904	1,619	2,816	73	287	4,267	297	648	198	360
1,497	618	816	21	-	1,236	-	-	-	-
1,154	480	1,030	25	-	1,561	-	-	198	-
1,252	521	970	27	287	1,470	297	648	-	360

<b>Raw Material (RM) Integration %</b>	PTA Global Integration %	100%
	MEG Global Integration %	18%
	IPA Global Integration %	100%
	PX Global Integration %	23%
	Theoretical PTA net buying in KT	(363)
	Theoretical MEG net buying in KT	1,322
	Theoretical PX buying in KT	2,168
	Theoretical Ethylene buying in KT	287
	Theoretical IPA buying in KT	-
	Theoretical RM buying in KT	3,414