

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

Years	2015A	2016A	2017A	2018E	Yr '18 % of IVL	2019E
<b>Qty in kt</b>						
<b>Consolidated in the Company</b>						
Oxide & Glycols	550	550	550	550	5%	550
North America	550	550	550	550	5%	550
Mix Feed Cracker				440	4%	440
North America (Project Houston)				440	4%	440
PET Resins	4,262	4,291	4,070	4,148	35%	5,024
China	548	545	523	569	5%	582
Europe	930	1,119	1,122	1,127	9%	1,174
Indonesia	193	190	197	201	2%	201
MENA	464	460	329	350	3%	361
North America	1,518	1,566	1,486	1,486	12%	1,504
India	216	-	-	-	0%	721
Thailand	393	411	414	414	3%	481
PET Packaging	110	139	182	320	3%	356
Fibers (Polyester,PP, Nylon 66 etc)	1,492	1,566	1,618	1,557	13%	1,592
China	54	68	65	75	1%	84
Europe	420	447	513	515	4%	526
Indonesia	429	436	436	404	3%	404
North America	237	259	292	254	2%	262
Thailand	352	356	312	309	3%	315
PTA	2,357	3,698	4,018	4,741	40%	4,741
Europe	380	705	1,025	1,735	14%	1,735
North America	600	1,620	1,620	1,633	14%	1,633
Thailand	1,377	1,373	1,373	1,373	11%	1,373
Purified Isophthalic 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	11,981	100%	12,928
ASIA	41%	32%	32%	29%		34%
EMEA	25%	28%	31%	34%		32%
North America	33%	38%	37%	36%		34%

PET Incl. Pckg	4,372	4,430	4,253	4,468	37%	5,380
ASIA	31%	26%	30%	30%		40%
EMEA	32%	36%	36%	36%		32%
North America	35%	35%	35%	33%		28%
Fibers & Yarns (Incl. Wool)	1,498	1,572	1,624	1,563	13%	1,598
ASIA	56%	55%	50%	51%		51%
EMEA	28%	28%	32%	33%		33%
North America	16%	16%	18%	16%		16%
Feedstock	2,907	4,468	4,788	5,951	50%	5,951
ASIA	47%	31%	29%	23%		23%
EMEA	13%	21%	26%	33%		33%
North 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

Requirement	PTA	MEG	PX	IPA	Ethylene	Production	PTA	MEG	PX	IPA	Ethylene
					287			297			
					287			297			360
	3,078	1,282		73							360
	430	179		10							
	852	355		20							
	152	63		4							
	207	86		5							
	1,123	468		27							
	-	-		-							
	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	
	3,857	1,600	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	-
	1,206	502	970	27	287		1,470	297	648	-	360

<b>Raw Material (RM) Integration %</b>	PTA Global Integration %	100%
	MEG Global Integration %	19%
	IPA Global Integration %	100%
	PX Global Integration %	23%
	Theoretical PTA buying in KT	-
	Theoretical MEG buying in KT	1,303
	Theoretical PX buying in KT	2,168
	Theoretical Ethylene buying in KT	287
Theoretical IPA buying in KT	-	
<b>Theoretical RM buying in KT</b>	<b>3,758</b>	