

# Engineering companies

## Project list of new polymer and chemical fiber plants\*) 2008

Country/Company	Fiber (Polymer)	Staple/Filament	Capacity (tons/year)	Engineering Company	Status, Remarks
<b>EUROPE</b>					
<b>Austria</b>					
Glanzstoff Austria GmbH	CV	Calcination plant	200,000	Ebner GmbH	In operation
	CV	Crystallization plant	3,200	Ebner GmbH	In operation
	CV	Crystallization plant	17,600	Ebner GmbH	In operation
	CV	Evaporation plant	44,000	Ebner GmbH	Erection
	CV	F	n/a	Lenzing Technik	Engineering
Lenzing AG	CV	St (equipment)	40,000	Lenzing Technik	Handed over
Lenzing Fibers GmbH	CLY	St (equipment)	n/a	Lenzing Technik	Handed over
Glanzstoff Austria GmbH	CV	F (continuous spinning)	n/a	Maurer	Handed over
<b>Belarus</b>					
Belpak Mogilev	PET	SSP, bottle grade	80,000	Bühler AG	In operation
Grodno	PET	SSP, technical yarn	6,700	Bühler AG	In operation
Belpak Mogilev	CV	F (equipment)	n/a	Lenzing Technik	Start-up
Mogilev	PET	Polycondensation	80,000	Uhde Inventa-Fischer	In operation
<b>Belgium</b>					
Sioen Fibres	PET	SSP, industrial yarn LS	8,000	Bühler AG	In operation
<b>Bulgaria</b>					
Svilosa	CV	F (equipment)	n/a	Maurer	Handed over
<b>Czech Republic</b>					
Glanzstoff Bohemia	CV	Crystallization plant	32,800	Ebner GmbH	In operation
	CV	F (equipment)	n/a	Lenzing Technik	Handed over
<b>Finland</b>					
Säteri OY	CV	St (equipment)	n/a	Lenzing Technik	In operation
<b>France</b>					
Undisclosed	R-PET	B to B recycling	20,000	Bühler AG	Engineering
Amcor	R-PET	SSP, bottle grade	12,000	Bühler AG	In operation
Artenius	R-PET	B to B recycling	20,000	Bühler AG	Under construction
Evian	PET	SSP, bottle grade	12,000	Bühler AG	In operation
	PET	SSP, bottle grade	12,000	Bühler AG	In operation
Tergal Fibres	PET	PET treatment retrofit	65,000	Bühler AG	In operation
<b>Germany</b>					
Acordis PET	PET	SSP, technical yarn	12,700	Bühler AG	In operation
Bayer AG	PA 6	Drying	40,000	Bühler AG	In operation
Dow Chemical	PET	SSP, bottle grade	85,000	Bühler AG	In operation
	PET	SSP, bottle grade	85,000	Bühler AG	In operation
	PET	SSP, bottle grade	75,000	Bühler AG	In operation
	PET	SSP, bottle grade	75,000	Bühler AG	In operation
Invista	PET	SSP, bottle grade	66,000	Bühler AG	In operation
Reifenhäuser	PET	Drying spunbond	16,800	Bühler AG	In operation
Kelheim Fibres	CV	Crystallization plant	120,000	Ebner GmbH	In operation
	CV	St (equipment)	n/a	Lenzing Technik	Under construction
BASF	CoPET	2-Reacto	60,000	Uhde Inventa-Fischer	engineering
<b>Greece</b>					
Volos Pet Industry	PET	Polycondensation, SSP retrofit	80,000	Bühler AG	In operation
<b>Italy</b>					
Equipolymers	PET	SSP, debottlenecking	65,000	Bühler AG	In operation
	PET	SSP, debottlenecking	80,000	Bühler AG	In operation
Selenis Italia (Aussapol)	PET	SSP, retrofit & expansion	80,000	Bühler AG	In operation
	PET	SSP, retrofit & expansion	100,000	Bühler AG	In operation
Undisclosed	PET	B to B recycling	16,000	Bühler AG	Engineering
Montefibre	PET	Polymerization	100,000	Chemtex	Start-up
Radici Chimica	PA 66	Polymerization	27,000	NOY-ValLesina Eng.	Engineering

\*) Plants for fiber polymers (PET, PA), bottle polymers (PET), staple fibers, filament yarns, spunbonds and recycling by engineering companies

# Fiber Production

Country/Company	Fiber (Polymer)	Staple/Filament	Capacity (tons/year)	Engineering Company	Status, Remarks
<i>Italy (continued)</i>					
Radicifil Pistoia	PA 66	Drying	6,000	NOY-ValLesina Eng.	Engineering
Equipolymers	PET	Polycondensation (bottle grade)	175,000	Zimmer AG	Handed over
<b>Lithuania</b>					
UAB Orion Global PET	PET	SSP	200,000	Bühler AG	In operation
Indorama (UAB Orion Global)	PET	Polycondensation	200,000	Uhde Inventa-Fischer	Handed over
<b>Poland</b>					
Elana	PET	SSP, bottle grade	73,000	Bühler AG	In operation
	PET	SSP, bottle grade	16,000	Bühler AG	In operation
	PET	SSP, bottle grade	21,000	Bühler AG	In operation
Eurochem	PET	SSP, bottle grade	110,000	Bühler AG	In operation
Zaklady Azotowe W Tarnowie-Moscicach	PA 6	Polymerization and recovery	expansion to 45,000	Zimmer AG	In operation
<b>Portugal</b>					
Selenis	PET	SSP bottle grade upgrade	35,000	Bühler AG	In operation
<b>Romania</b>					
Fibrex	PA 66	HTY spinning	5,000	NOY-ValLesina Eng.	Under construction
	PA 66	Post polycondensation	5,000	NOY-ValLesina Eng.	Under construction
<b>Russia</b>					
Europlast	PET	SSP, bottle grade	80,000	Bühler AG	In operation
	RPET	B to B recycling	11,000	Bühler AG	Under construction
SW PET	PET	SSP, techn. yarns	15,000	Bühler AG	Under construction
Undisclosed	PET	SSP, techn. yarns	15,000	Bühler AG	In operation
Sivnit	PA 6	F (equipment)	n/a	Lenzing Technik	In operation
OAQ Sibui PET	PET	Polycondensation	expansion to 100,000	Lurgi Zimmer	Under construction
Sivnit	PA 6	Spinning, cabling and weaving tire cord	7,000	NOY ValLesina Eng.	Under construction
	CV	F	2,400	SNAICO Engineering	Engineering
Alco-Naphtha	PET	Melt-To-Resin (MTR)	240,000	Uhde Inventa-Fischer	Under construction
KuibyshevAzot	PA 6	Polymerization	21,500	Uhde Inventa-Fischer	Handed over
	PA 6	Polymerization	54,000	Uhde Inventa-Fischer	Engineering
OAQ Polief	PET	SSP, bottle grade, engineering	130,000	UOP SINCO	Handed over
	PET	SSP, bottle grade	130,000	UOP SINCO	Start-up
Undisclosed	PET	SSP, bottle grade	250,000	UOP SINCO	Under construction
<b>Spain</b>					
NOVAPET (Brielen)	PET	SSP, bottle grade	115,000	Bühler AG	In operation
	PET	SSP, bottle grade	95,000	Bühler AG	In operation
	PET	SSP, bottle grade	25,000	Bühler AG	In operation
Fisipe	PA	St	n/a	Lenzing Technik	In operation
<b>Sweden</b>					
Freudenberg Household Products AB	CV	Equipment	n/a	Lenzing Technik	Handed over
<b>Turkey</b>					
Pakel	PAN	Spinning	25,000	NOY-ValLesina Eng.	Under construction
<b>Ukraine</b>					
Chimvolokno Chernigov	PA 66	SSP	20,000	Polymer Engineering	Under construction
	PA 6	Polymerization	10,000	Polymer Engineering	Under construction
	PA 6	Polymerization	20,000	Polymer Engineering	Under construction
	PA 6	Polymerization	30,000	Polymer Engineering	Under construction
<b>Europe</b>					
Undisclosed	PET	SSP, bottle grade	200,000	Bühler AG	Engineering
	PET	SSP, bottle grade	150,000	UOP SINCO	Under construction

## NORTH AMERICA

<b>USA</b>					
DuPont - Alpek	PET	SSP, bottle grade	157,500	Bühler AG	In operation
NanYa	PET	SSP, bottle grade	157,500	Bühler AG	In operation
Invista (formerly KoSa)	PET	SSP, techn. fiber	48,000	Bühler AG	In operation
Wellman Inc.	PET	SSP	150,000	Bühler AG	In operation
Starpet	PET	SSP, expansion	80,000	Bühler AG	In operation
	PET	SSP, expansion	120,000	Bühler AG	In operation
n/a	PEN	Drying	n/a	Bühler AG	In operation
Undisclosed	PET	Polycondensation	90,000	Lurgi Zimmer	Under construction
	PA 6	Polymerization expansion	n/a	Lurgi Zimmer	Engineering
Toray Fluorofibers (America) Inc.	PTFE	Mixture, spinning, T/U	n/a	TMT, Inc.	Engineering
AlphaPET, Inc.	PET	Melt-To-Resin (MTR)	432,000	Uhde Inventa-Fischer	Under construction
DAK Americas	PET	Melt-To-Resin (MTR)	200,000	Uhde Inventa-Fischer	In operation
M&G Polymers, Point Pleasant	PET	SSP, bottle grade	120,000	UOP SINCO	Handed over

# Fiber Production

Country/Company	Fiber (Polymer)	Staple/Filament	Capacity (tons/year)	Engineering Company	Status, Remarks
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## LATIN AMERICA

### Brazil

Vicunha Textiles	CV	St (equipment)	n/a	Maurer SA	Under construction
Viscofan do Brazil	CV	St (equipment)	n/a	Maurer SA	Handed over
Radici Nylon do Brasil	PA 6	POY	5,000	NOY-ValLesina Eng.	Handed over
Crylor	PAN	2 wet spinning (revamping)		NOY-ValLesina Eng.	Handed over
Braskem	PET	SSP, bottle grade	60,000	UOP SINCO	Handed over
Undisclosed	PET	SSP, bottle grade	200,000	UOP SINCO	Handed over

### Mexico

Petstar	PET	B to B recycling	20,000	Bühler AG	Under construction
M&G Polimeros	PET	Bottle chips	262,500	Chemtex	Start-up
Fibras Quimicas	PET	SSP, industrial yarn chips	15,000	SNAICO Engineering	Engineering
Finacril	PAN	St	25,000	SNAICO Engineering	Engineering
Akra Fibras Quimicas	PET	SSP, industrial yarn	13,000	UOP SINCO	Handed over
M&G Polimeros	PET	SSP, bottle grade	162,000	UOP SINCO	Handed over
	PET	SSP, bottle grade	162,000	UOP SINCO	Handed over

## ASIA

Undisclosed	PET	SSP, bottle grade	100,000	Bühler AG	In operation
	PET	SSP, bottle grade	85,000	UOP SINCO	Under execution

### China

Undisclosed	PET	SSP, bottle grade	100,000	Bühler AG	In operation
	PET	SSP, bottle grade	100,000	Bühler AG	In operation
Changzhou Andenie	PET	SSP, bottle grade	100,000	Bühler AG	In operation
	PET	SSP, bottle grade	110,000	Bühler AG	In operation
Full Apex Group	PET	SSP, bottle grade	100,000	Bühler AG	In operation
	PET	SSP, bottle grade	100,000	Bühler AG	In operation
Guxiandao	PET	SSP, technical yarn	12,000	Bühler AG	In operation
	PET	SSP, technical yarn	8,000	Bühler AG	In operation
Incom Resources	R-PET	B to B recycling	25,000	Bühler AG	In operation
Jiangyin Jihua Co, Ltd,	PET	SSP, bottle grade	120,000	Bühler AG	In operation
Jiangyin Sangfangxiang	PET	SSP, bottle grade	150,000	Bühler AG	In operation
	PET	SSP, bottle grade	150,000	Bühler AG	In operation
	PET	SSP, bottle grade	50,000	Bühler AG	In operation
	PET	SSP, bottle grade	100,000	Bühler AG	In operation
	PET	SSP, bottle grade	100,000	Bühler AG	In operation
	PET	SSP, bottle grade	120,000	Bühler AG	In operation
Kaiping Polyester	PET	SSP, bottle grade	60,000	Bühler AG	In operation
Ningbo SK Zhengbang	PET	SSP, bottle grade	140,000	Bühler AG	Under construction
OTIZ Far Eastern Textile	PET	SSP, technical yarn	34,000	Bühler AG	In operation
	PET	SSP, technical yarn/bottle grade	34,000/50,000	Bühler AG	In operation
Shandong Polytex	PET	SSP, technical yarn	10,000	Bühler AG	In operation
Shenma	PET	SSP, technical yarn	23,000	Bühler AG	In operation
Worldbest Radici	PET	SSP, bottle grade	40,000	Bühler AG	In operation
	PET	SSP, bottle grade	75,000	Bühler AG	In operation
	PET	SSP, bottle grade	75,000	Bühler AG	In operation
	PET	SSP, bottle grade	100,000	Bühler AG	On hold
	PET	SSP, bottle grade	100,000	Bühler AG	On hold
Wujiang Silk	PET	SSP, bottle grade	60,000	Bühler AG	In operation
Yizheng	PET	SSP, bottle grade	42,000	Bühler AG	In operation
	PET	SSP, bottle grade	100,000	Bühler AG	In operation
Zhuhai	PET	SSP, bottle grade	50,000	Bühler AG	In operation
Hangzhou Xiangsheng Phase I	PET	Polymerization	150,000	Chemtex	Under construction
Hangzhou Xiangsheng Phase II	PET	Polymerization	150,000	Chemtex	Engineering
Jiangsu Shenghong Fiber	PET	Polymerization	175,000	Chemtex	Engineering
Jiangyin Chengold	PET	Bottle chips	210,000	Chemtex	Under construction
Jiangyin Huaxing Synthetic Co.	PET	Polymerization	210,000	Chemtex	Under construction
Jiangyin Xingjia Plastics Co.	PET	Bottle chips	175,000	Chemtex	Under construction
Jiangyin Xingsheng Plastic	PET	Polymerization	210,000	Chemtex	Under construction
Jiangyin Xingye	PET	Polymerization	200,000	Chemtex	Handed over
Zhejiang New Fengming	PET	Polymerization	175,000	Chemtex	Engineering
Wuliangye Group Co.	PET	Bottle chips	150,000	Chemtex	Handed over
Xiaoshan Rongsheng	PET	Polymerization	150,000	Chemtex	Handed over
Zhejiang Cifu Phase I	PET	Polymerization	120,000	Chemtex	Handed over
Zhejiang Cifu Phase II	PET	Polymerization	120,000	Chemtex	Under construction
Baoding (Swan Chemical Fiber)	CV	Biological gas treatment	n/a	Lenzing Technik	Handed over
Lenzing Nanjing Fibers	CV	St (equipment)	60,000	Lenzing Technik	Handed over
Nanjing	CV	F (equipment)	10,000	Lenzing Technik	Handed over
Säteri Jiangxi Chemical Fibre Plant	CV	St (equipment)	n/a	Lenzing Technik	Under construction
Shandong Gaomi	CV	St (equipment)	n/a	Lenzing Technik	Under construction
Shandong Helon	CV	St (equipment)	40,000	Lenzing Technik	Under construction
Shandong Yamei Fibre	CV	St (equipment)	2 x 40,000	Lenzing Technik	Under construction
Xinyang Helon	CV	St (equipment)	n/a	Lenzing Technik	Under construction
Baoding Swan Chemical Fibre	CV	F (equipment)	n/a	Maurer	Engineering

Country/Company	Fiber (Polymer)	Staple/Filament	Capacity (tons/year)	Engineering Company	Status, Remarks
<i>China (continued)</i>					
Hangzhou Chemical Fibre Plant	CV	F (equipment)	5,250	Maurer	Handed over
	CV	F, CS <sub>2</sub> and H <sub>2</sub> S recovery plant	3,000	Maurer	Handed over
Jiu Jiang Chemical Fibre Plant	CV	F, continuous spinning machines	500	Maurer	Handed over
	CV	F, continuous spinning	2,000	Maurer	Handed over
Säteri Jianxi Chemical	CV	St (equipment)	2 x 100,000	Maurer	Under construction
Shandong Helon	CV	St (equipment)	n/a	Maurer	Engineering
Undisclosed	CV	F (equipment)	n/a	Maurer	Engineering
Changzhou	PET	SSP, bottle grade	150,000	NOY-Vallesina Eng.	Under construction
	PET	SSP, bottle grade	35,000	NOY-Vallesina Eng.	Handed over
Baoding Swan Chemical Fiber	CV	F, continuous spinning	2,500/3,269	SNAICO Engineering	Under construction
DSM	PA 6	Polymerization	50,000	Uhde Inventa-Fischer	Under construction
Xinhui Nylon	PA 6	Polymerization	81,000	Uhde Inventa-Fischer	Handed over
Far Eastern Industries	PET	SSP, bottle grade	100,000	UOP SINCO	Handed over
Fujian 1	PET	SSP, bottle grade	158,000	UOP SINCO	Handed over
Fujian 2	PET	SSP, industrial yarn	40,000	UOP SINCO	Handed over
Hainan 1	PET	SSP, bottle grade	115,000	UOP SINCO	Handed over
Hainan 2	PET	SSP, bottle grade	115,000	UOP SINCO	Handed over
Hyosung Corp.	PET	SSP, industrial yarn	25,000	UOP SINCO	Handed over
	PET	SSP, industrial yarn	25,000	UOP SINCO	Handed over
Jangsu 1	PET	SSP, bottle grade	105,000	UOP SINCO	Handed over
Jangsu 2	PET	SSP, bottle grade	105,000	UOP SINCO	Handed over
Jiangyin Chengxing	PET	SSP, bottle grade	65,000	UOP SINCO	Handed over
Shanghai 1	PET	SSP, bottle grade	150,000	UOP SINCO	Handed over
Shanghai 2	PET	SSP, bottle grade	133,000	UOP SINCO	Engineering
Wuliyangye	PET	SSP, bottle grade	160,000	UOP SINCO	Handed over
Xinjiang Tunhe Polyester	PET	SSP, bottle grade	40,000	UOP SINCO	Handed over
Chang Chun Chemical (Zhangzhou)	PBT	Polycondensation	70,000	Zimmer AG	Under construction
Changzhou Plastic Group	PET	Polycondensation (bottle grade)	231,000	Zimmer AG	Handed over
Fujian Jinlun Petrochemical Fiber Industry, Binhai Changle	PET	Staple fibers	70,000	Zimmer AG	Start-up
Jiangsu Hengli Chemical Fibre	PET	Polycondensation	175,000	Zimmer AG	Handed over
Liheng Polyamide Technology Co.	PA 6	Polymerization	70,000	Lurgi Zimmer	Engineering
Zhejiang Huajian Nylon Company	PA 6	Polymerization	35,000	Lurgi Zimmer	Engineering
<b>India</b>					
Century Rayon	CV	F (equipment)	n/a	Lenzing Technik	Handed over
Grasim	CV	St	n/a	Maurer	Start-up
Indian Rayon	CV	F, continuous spinning	900	SNAICO Engineering	Under construction
Rajashree Polyfil Ltd.	PA 6	Tire cord chips	13,000	Uhde Inventa-Fischer	Completed
Reliance	PET	SSP, bottle grade	105,000	UOP SINCO	Handed over
	PET	SSP, bottle grade	105,000	UOP SINCO	Handed over
Indo Rama Synthetics Ltd., Butibori	PET	Polycondensation	2 x 140,000	Zimmer AG	Handed over
	PET	Staple fibers	122,500	Zimmer AG	Handed over
<b>Indonesia</b>					
Indo Bharat Rayon	CV	Xanthation & dissolving	n/a	Lenzing Technik	Handed over
South Pacific Viscose (SPV)	CV	St	60,000	Lenzing Technik	Under construction
Indo Bharat Rayon	CV	St	n/a	Maurer	Under construction
	CV	St	n/a	Maurer	Handed over
SPV	CV	St (equipment)	60,000	Maurer	Handed over
<b>Iran</b>					
STPC PET 1	PET	SSP, bottle grade	120,000	Bühler AG	In operation
STPC PET 2	PET	SSP, bottle grade	120,000	Bühler AG	In operation
National Petrochemical	PET	Pilot plant POY-HOY spinning	200	NOY-Vallesina Eng.	Under construction
	PET	Batch polycondensation + SSP	200	NOY-Vallesina Eng.	Under construction
Shahid Tondgooian Petrochemical	PET	Cont. polycond. + SSP (bottle grade chips)	132,000	NOY-Vallesina Eng.	Under construction
	PET	Cont. polycond. (textile chips)	132,000	NOY-Vallesina Eng.	Under construction
	PET	Cont. polycond. (melt)	132,000	NOY-Vallesina Eng.	Under construction
	PET	St	66,000	NOY-Vallesina Eng.	Under construction
	PET	POY	66,000	NOY-Vallesina Eng.	Under construction
Yazd Polyester Co.	PET	Continuous polycondensation	66,000	NOY-Vallesina Eng.	Handed over
Shahid Tondgoolan Petrochemical Co., Bandar Imam (STPC 1)	PET	Polycondensation (textile grade)	235,000	Zimmer AG	Handed over
	PET	Polycondensation (bottle grade)	177,000	Zimmer AG	Handed over
<b>Japan</b>					
Teijin	PBT	SSP, bottle grade	n/a	Bühler AG	In operation
Daiwabo Rayon	CV	St (equipment)	n/a	Lenzing Technik	Under construction
Undisclosed	PET	SSP, bottle grade, recycling	50,000	UOP SINCO	Handed over
<b>Korea</b>					
Kolon	PET	SSP, bottle grade	37,000	Bühler AG	In operation
KP Chemical	PET	SSP, bottle grade	100,000	Bühler AG	In operation
	PET	SSP, bottle grade	100,000	Bühler AG	In operation
SK Chemical	PET	SSP, bottle grade	66,000	Bühler AG	In operation
Sam Yang Co. Ltd.	PET	SSP, bottle grade	70,000	Bühler AG	Handed over
Tongkook	PET	Bottle chips	n/a	Chemtex	Handed over
Daehan Syn. Fiber Corp.	PET	SSP, bottle grade	65,000	UOP SINCO	Handed over
Hyosung Corp.	PET	SSP, tire cord	20,000	UOP SINCO	Handed over
	PET	SSP, NPU revamping	n/a	UOP SINCO	Handed over

# Fiber Production

Country/Company	Fiber (Polymer)	Staple/Filament	Capacity (tons/year)	Engineering Company	Status, Remarks
<i>Korea (continued)</i>					
LG Chemical Ltd.	PBT	SSP	2,000	UOP SINCO	Handed over
	PBT	SSP	2,000	UOP SINCO	Handed over
Tongkook	PET	SSP, bottle grade, debottlenecking	113,000	UOP SINCO	Handed over
	PET	SSP, bottle grade	113,000	UOP SINCO	Handed over
<b>Middle East</b>					
Undisclosed	PET	SSP, bottle grade	200,000	Bühler AG	Under construction
	PET	SSP, bottle grade	100,000	Bühler AG	Under construction
<b>Oman</b>					
Octal Global	PET	Melt-To-Resin (MTR)	300,000	Uhde Inventa-Fischer	Under construction
<b>Pakistan</b>					
Pak Fiber	PET	POY	2,500	Cognesint	Engineering
	PET	POY	650	Cognesint	Engineering
Novatex	PET	SSP, bottle grade	75,000	UOP SINCO	Handed over
	PET	SSP, bottle grade	75,000	UOP SINCO	Handed over
<b>Taiwan</b>					
Nan Ya	PET	SSP, bottle grade	130,000	Bühler AG	In operation
Shinkong	PET	SSP, bottle grade	100,000	Bühler AG	In operation
Formosa Chemicals Fibre Corp.	CV	St (equipment)	n/a	Lenzing Technik	Handed over
Far Eastern Textile	PET	SSP, bottle grade	150,000	UOP SINCO	Start-up
	PET	SSP, industrial yarn	20,000	UOP SINCO	Handed over
	PET	SSP, industrial yarn	20,000	UOP SINCO	Handed over
	PET	SSP, bottle grade	100,000	UOP SINCO	Handed over
Shinkong Synthetics Fibers	PET	SSP, bottle grade, debottlenecking	20,000	UOP SINCO	Handed over
Tuntex	PET	SSP, bottle grade, debottlenecking	65,000	UOP SINCO	Handed over
<b>Thailand</b>					
Teijin	PET	SSP, bottle grade	n/a	Bühler AG	In operation
Thai PET Resin Co.	PET	SSP, bottle grade	100,000	Bühler AG	In operation
Undisclosed	PA	Conditioning	50,000	Bühler AG	Under construction
Thai Rayon	CV	St (equipment)	n/a	Lenzing Technik	Handed over
	CV	St	n/a	Maurer	Under construction
Toray Fiber (Thailand) Ltd.	PA 66	SSP, FDY	n/a	TMT, Inc.	Engineering
Indopet	PET	SSP, bottle grade, debottlenecking	85,000	UOP SINCO	Handed over
Shinkong Synthetics Fibers	PET	SSP, bottle grade, debottlenecking	120,000	UOP SINCO	Handed over
Undisclosed	PET	SSP, bottle grade	85,000	UOP SINCO	Under construction
<b>UAE</b>					
JBF	PET	SSP, bottle grade	200,000	UOP SINCO	Handed over
<b>Vietnam</b>					
Nan Ya	PET	Polymerization	225,000	Chemtex	Under construction
Nan Ya	PET	SSP, bottle grade	150,000	UOP SINCO	Handed over
Undisclosed	PET	SSP, bottle grade	25,000	UOP SINCO	Under construction

## AFRICA

### South Africa

Hosaf Fibres	PET	SSP, bottle grade	80,000	Bühler AG	Under construction
	PET	SSP, bottle grade	30,000	Bühler AG	In operation
	PET	SSP, bottle grade	1,200	Bühler AG	In operation
Undisclosed	PET	SSP, bottle grade	80,000	Bühler AG	Engineering

### Abbreviations and fiber codes:

PA = Polyamide, PBT = Polybutylene terephthalate, PET = Polyester, PTT = Polytrimethylene terephthalate, PEN = Polyethylene naphthalene, PAN = Polyacryl, PP = Polypropylene, PTFE = Polytetrafluorethylene, EL = Elastane (Spandex), CV = Viscose, CLY = Lyocell, SSP = Solid state polymerization, DTY = draw-textured yarn, HTY = high tenacity yarn, HMLS = high modulus low shrink, WDS = Warp-Draw-Sizing-System, POY = preoriented yarns, FOY or FDY = fully oriented yarns, HSO = High speed only, St = Staple, F = Filament, n/a = not announced.

### Engineering companies:

Bühler AG, Uzwil/Switzerland; Chemtex International Inc., Wilmington, NC/USA; Cognesint, Imola/Italy; Ebner GmbH & Co. KG, Eiterfeld/Germany; Lenzing Technik GmbH, Lenzing/Austria; Lurgi Zimmer GmbH, Frankfurt/Germany, Ing. A. Maurer SA, Ittigen/Switzerland; NOY-Vallesina Engineering SpA, Parre/Italy and Chur/Switzerland; Polymer Engineering GmbH, Rudolstadt/Germany; UOP SINCO Srl, Tortona/Italy; SNAICO Engineering SpA, Cerro Maggiore/Italy; TMT, Inc., Osaka/Japan; UIF Uhde Inventa-Fischer AG, Domat/Ems, Switzerland and Berlin/Germany; Zimmer AG (now: Lurgi Zimmer GmbH), Frankfurt/Germany.