

# Complete Manufacturing Plants and Process Lines Available

USED PLANTS AVAILABLE | SAVE TIME & CAPITAL



We Service Industrial Projects In The Following Industries:

Chemical | Agrochemical/Fertilizer | Plastic | Petrochemical  
Fine & Specialty Chemical | Pharmaceutical | Polymers  
Artificial Fibers | Food Processing | Oil & Gas | Pulp & Paper  
Steel | Power Generation | Metals Processing & Refining

**WE WANT TO BUY YOUR IDLED ASSETS**  
COMPLETE PLANTS, PROCESS LINES & EQUIPMENT

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**IP**

INTERNATIONAL  
PROCESS PLANTS

**International Process Plants (IPP)** supplies complete manufacturing plants and process lines to numerous industries. Our portfolio of used industrial plants and processes can bring value to many industrial processes.

We have had proven success in the chemical, pharmaceutical, petrochemical, plastic, fine & specialty chemical, power generation, steel, fertilizer and agrichemical, oil & gas, food processing, paper and metals processing industries. We can accomplish any needs that your project requires, including relocation services, installations and process expansions.

#### Chemical Plants

Acetic Acid	2
Adipic Acid	3
Aluminum Sulfate	3
BoPET	3
BOPP	3
Caustic Chlorine	3
Caustic Soda	3
Dicalcium Phosphate	4
Diethyl Phthalate (DOP)	4
Dimethyl Ether (DME)	4
Formic Acid	4
Glycerine	5
HyCO	3
Hydrogen Cyanide (HCN)	5
Hydrogen Peroxide	5
Pentaerythritol	6
Phthalic Anhydride	7
Polyethylene Terephthalate (PET)	7
Polys...	7

#### Petrochemical Plants

Acrylic Acid	2
Acrylonitrile (ACN)	2
Butadiene Extraction	3
Carbon Black	3
Cumene	3
Cyclohexane	3
Dimethyl Ketone (DMK)	4
Ethylene	4
Ethylene Glycol	4
Ethylene Oxide	4
Formaldehyde	4
Meta-Xylene	5
Methyl Amines	6
Methyl Amyl Ketone (MAK)	6
Methyl Isobutyl Carbinol (MIBC)	6
Methyl Isobutyl Ketone (MIBK)	6
Methyl Methacrylate (MMA)	6
Methyl Tert-Butyl Ether (MTBE)	6
Parafomaldehyde	6
Phenol	7
Polyethylene	7
Polyoxymethylene (POM)	7
Propane Dehydrogenation (PDH)	8
Styrene Monomer	8

#### Fertilizer/Agrochemical Plants

Ammonia	3
Ammonium Nitrate	3
Ammonium Sulfate	3
Diammonium Phosphate (DAP)	4
Fertilizer	4
Herbicide	5
Monoammonium Phosphate (MAP)	6
Nitric Acid	6
Phosphoric Acid	7
Sulfuric Acid	8
Urea	9

#### Polymer Plants

Caprolactam	3
Nylon 66	6
Polyester Resin	7
Polyvinyl Chloride (PVC)	8
Vinyl Chloride Monomer (VCM)	9

#### Specialty Chemical Plants

Acrylic Fiber (PAN)	2
Adhesives	3
Fiberboard	4
Isopropyl Alcohol (IPA)	5
Magnesium Sulfate	5
Melt Spinning	5
Titanium Dioxide	8

#### Oil & Gas Plants

Biodiesel	3
Gasification	5
Methanol	6
Refineries	8

#### Industrial Gas Plants

Air Separation	3
Argon	3
CO <sub>2</sub>	3
Electrolysis	4
Hydrogen	5
Nitrogen	3
Oxygen	3

#### Pharmaceutical Plants

API	7
Fermentation	4
Penicillin	6
Pharmaceutical	7

#### Power Plants

50 & 60 Hz	8
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#### Food Plants

Olive Oil	6
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#### Pulp & Paper Plants

Pulp & Paper	6
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#### Metals Plants

Nickel	6
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#### 400 mtpd Acetic Acid Plant #601491

99.9% pure acetic acid / glacial acetic acid. Acetic acid is produced by the continuous reaction of carbon monoxide and methanol. Small amounts of propionic acid, hydrogen and carbon dioxide are also produced in the process.

#### Plants That IPP Is Currently Looking To Purchase

SEE THE BENEFITS OF WORKING WITH IPP ON PAGE 11

Acetic Acid	Hydrogen
Adipic Acid	Hydrogen Peroxide
Air Separation	Isomerization
Aluminum Sulphate	Isopropyl Alcohol (IPA)
Ammonia	LLDPE
Ammonium Nitrate	Magnesium
Ammonium Sulfate	Methanol
Biodiesel	Milk Powder
Bisphenol A	Nitric Acid
Bitumen	Nitric Acid Concentration
Bone Meal	Nitrogen
Bromide	NPK Fertilizer
Butadiene	Oxo Alcohol
Calcium Chloride	Paper
Calcium Hypochlorite	Parafomaldehyde
Carbon Dioxide	Particleboard
Carbon Disulfide	PET Coke
Carboxyl Methyl Cellulose	Pesticides & Herbicides
Caustic Chlorine	Pharmaceutical (API)
Caustic Soda	Phosphoric Acid
Cement	Pigment
Chemical Manufacturing	Polyester Resins
Chlorine	Polyethylene Terephthalate
Compounding	Polyols
Concentrated Caustic Soda	Polypropylene (PP)
Deasphalting	Polyvinyl Chloride (PVC)
Detergent	Power Plant
Di-Calcium Phosphate (DCP)	Propylene Splitter
Diethyl Phthalate (DOP)	Purified Terephthalic Acid
Diphenylamine	PVC Callendering
Edible Oil	Refinery
Esterification	Micro Refinery
Ethanol	Salt
Ethoxylation (Ethylene Oxide)	Single Super Phosphate (SSP)
Ethylene	Soda Ash
Extruded Polystyrene (XPS)	Styrene
Fatty Acid	Sulfuric Acid (SA)
Fermentation	Sulphonation
Fertilizer	Sulphonic Acid
Fiberglass Furnace	Super Absorbent Polymer
Formic Acid	Super Critical Extraction
Furfural	Unsaturated Polyester Resin
Gas Purification (Amine)	Urea Plant
Glycerin	Zinc

#### Acetic Acid

##### Acetic Acid with Methanol Plant

150,000 tpy and 190,000 tpy #601666

##### Acetic Acid Plant

400 mtpd #601491

#### Acrylic Acid

##### Acrylic Acid Plants

50,000 tpy and 60,000 tpy #601452

#### Acrylic Fiber (PAN)

##### Acrylic Fiber (PAN) Plant

45,000 tpy and 34,000 tpy #600578

#### Acrylonitrile (ACN)

##### Acrylonitrile Plant

55,000 tpy #601714

##### Acrylonitrile Plant

25,000 tpy #601713

THIS LIST IS A SAMPLE OF OUR CURRENT INVENTORY. PLEASE CONTACT YOUR IPP SALESPERSON OR CALL +1-609-586-8004 IF YOU DO NOT SEE THE PLANT OR PROCESS YOU REQUIRE.

**Looking to increase production capacity of your existing plant?** In addition to providing quality plants and processes as well as good used equipment to many industries, IPP can also supply complete systems to expand your process. If you have a need for reaction, drying, distillation, separation, storage or fermentation systems, you should speak with IPP about our capabilities.

# WE WANT TO BUY YOUR IDLED ASSETS COMPLETE PLANTS, PROCESS LINES & EQUIPMENT

If your company has idled manufacturing plants, systems or equipment, or you are aware of any that are closed or soon-to-be-idled, please contact IPP. There are many costs associated with the closure or reduction of a process. More often than not, the costs can outweigh the profits of any equipment, building, or land sales.

## Adhesives

### Adhesives Plant

7,000 mtpy #601725

## Adipic Acid

### Adipic Acid Plants

(2) 28,000 tpy plants #601638

## Air Separation

### Air Separation Plant

1,600 mtpd #601105

### Unused Air Separation Plant

770 tpd #601565

### Air Separation Plant (GOX with GAN)

250 tpd #601629

### Air Separation Plant (GOX with GAN)

190 tpd #601595

### Air Separation Plant (GOX with GAN)

70 tpd #601517

### Oxygen, Nitrogen and Argon Plants

### (GOX, GAN, LOX, LIN, LAR)

(3) plants (325 to 950 tpd) #601552

### Oxygen (VSA) Plant

60 tpd #601522

### HyCO Plant

22,000 Nm3/hr #601357

## Aluminum Sulfate

### Aluminum Sulfate Plant with Sulfuric Acid

30 tpd and 200 tpd Sulfuric Acid #601299

## Ammonia

### Ammonia Synthesis Plant

250 tpd #600637

### Ammonia and Urea Plants Complex

1,750 mtpd Ammonia, 3,000 mtpd Urea #601549

### Ammonia and Urea Plants Complex

1,100 mtpd Ammonia, 1,300 tpd Urea #601272

### Ammonia and Urea Plants Complex

600 tpd Ammonia, 550 tpd Urea #601596

## Ammonium Nitrate

### Ammonium Nitrate Plant

120,000 tpy Bulk Emulsion Explosives #601537

### Ammonium Nitrate Plant

400 tpd #601626

### Ammonium Nitrate Plant

300 tpd Prilled #600265

### Ammonium Nitrate Plant

150 tpd #601374

## Ammonium Sulfate

### Ammonium Sulfate Plant

113,000 tpy #601665

## Biodiesel

### Biodiesel Plant

5MM gpy #601698

## BoPET

### Biaxially-Oriented Polyethylene

### Terephthalate Plant

(3) 3.800 mm lines #601369

## BOPP

### Bi-Oriented Polypropylene Plant

4,800 tpy line #601368

## Butadiene Extraction

### Butadiene Extraction Plant

75,000 mtpy #601375

### Butadiene Extraction Plant

55,000 mtpy #600014

## Caprolactam

### Caprolactam Plant

50,000 to 60,000 tpy #601665

### Caprolactam Plants Complex

60,000 tpy #600883



### 75,000 mtpy 1,3-Butadiene Plant #601375

This plant extracts 99.5%+ pure butadiene from a C<sub>4</sub> stream using DMF (dimethylformamide) as the extractive solvent. It is relatively new and in excellent condition.

## Carbon Black

### Carbon Black Plant

30,000 tpy #601641

## Caustic Chlorine

### Caustic Chlorine Plant

60,000 tpy #601426

## Caustic Soda

### Caustic Soda (Chlor Alkali) Plant

60 tpd #601328

## Cumene

### Cumene Plant (with Phenol plant)

355,000 tpy #601059

## Cyclohexane

### Cyclohexane Plant

185,000 tpy #601718



### Ammonia and Urea Plants Complex #601549

1,750 mtpd ammonia and 3,000 mtpd urea. Facility produces liquid ammonia and granular urea fertilizer. There are two ammonia lines and three urea lines.

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### 450,000 tpy Ethylene Plants Complex #601375

Producing 1,300 tpd ethylene, 525 tpd polymer grade propylene, 250 tpd chemical grade propylene and 275 tpd butadiene. Process areas include furnaces/pyrolysis fractionator/quench tower, gas compression and acid gas removal, low temp. separation, propylene/propane, refrigerant compression, acetylene recovery unit, BD hydrogenation, gasoline hydrotreater, and butadiene extraction unit.

### Diammonium Phosphate (DAP)

Diammonium Phosphate (DAP) Plant  
250,000 tpy #601678

### Dicalcium Phosphate

Dicalcium Phosphate Plant  
25,000 tpy #601381

### Diethyl Phthalate (DOP)

Diethyl Phthalate (DOP) Plant  
85,000 tpy #601711  
Diethyl Phthalate (DOP) Plant  
225 tpd (68,000 tpy) #601670

### Dimethyl Ether (DME)

Dimethyl Ether (DME) Plant  
30,000 tpy #601651

### Electrolysis

Electrolysis Plant  
18,000 Nm<sup>3</sup>/hr #600636

### Ethylene

Ethane Cracker  
180,000 tpy #601700  
See feature on page 10

Ethylene Plant Complex  
450,000 tpy #601375

Ethylene Plant  
260,000 tpy #601654

Ethylene Plant  
125,000 tpy #600573

### Ethylene Glycol

Ethylene Glycol Plant  
100,000 mtpy #600575



### Ethylene Oxide

Ethylene Oxide Plant  
30,000 mtpy #600574

### Fermentation

Algae Fermentation Plant  
8,500 lbs/hr Dry Algae #601710

### Fertilizer

(2) Fertilizer Plants (NPK)  
200,000 tpy and 180,000 tpy NPK  
#601704

### Fertilizer Plant (NPK)

100,000 tpy NPK #601635

See feature on page 10

### Fertilizer Plant (NPK)

400 tpd NPK #601652

### Fertilizer Formulation/Coating Plants

2 plants (20 to 150 mtph each) #601673

### Fiberboard

Medium Density Fiberboard (MDF)

### Panel Plant

350 mc gg #601583

### Formaldehyde

Formaldehyde & Urea Form Resin Plant  
140 mtpd (49,000 mtpy) #601538

Formaldehyde & Urea Form Resin Plant  
110,000 tpy Formaldehyde and  
140,000 tpy Urea Form #601523

### Formic Acid

Formic Acid Plant  
10,000 tpy #601467

### 30,000 tpy Dimethyl Ether (DME) Plant #601651

The dimethyl ether plant produces aerosol grade DME from feedstock methanol. This plant was newly built using modern technology and operated for just two years. It is a well designed and compact unit, allowing for ease in dismantling, packing and relocation as a complete plant. Equipment is almost new and in very good condition. Spare charge of catalyst is in warehouse and good for service.

Methanol is dehydrated over an alumina catalyst. The crude product is refined in distillation columns, after which unconverted methanol feedstock is recovered for recycle and product DME is obtained. This DME plant produces high purity dimethyl ether having a residual content of methanol less than 1 ppm (no color, no smell and zero sulfur).

We have an extensive database of plants that are currently for sale around the world. International Process Plants has over 150 plants and process lines in our inventory, so let's discuss your current and planned projects and find out how we can work together.

4 We are also interested in purchasing closed or idled plants and processes your company is considering selling.



### 3,000 mtpd Refinery Gasification Plant (IGCC) #600759

This plant converts refinery residues into clean synthesis gas (syngas) and can be converted to use PET coke or coal as the input. It consumes 59 metric tons/hr (1,400 mtpd) of heavy residues to produce 130 metric tons/hr (3,00 mtpd) of clean syngas, consisting primarily of CO and H<sub>2</sub>. The facility is over-designed to accommodate crude oils other than the standard Arab Heavy.

#### Gasification

Refinery Gasification (IGCC) Plant  
 3,000 mtpd #600759

Gasification Plant  
 600,000 tpy #601703

Gasifiers  
 (2) 130,000 Nm<sup>3</sup>/hr #601250

#### Glycerine

Glycerine Purification Plant  
 10 MM lbs/yr #601667

#### Herbicide

Herbicide Plant  
 14,800 tpy #601442

#### Hydrogen

Hydrogen Plant  
 25,000 Nm<sup>3</sup>/hr #600646

Hydrogen Plant  
 10,000 Nm<sup>3</sup>/hr #601192

Hydrogen Plant  
 6,500 Nm<sup>3</sup>/hr #600394

Hydrogen Plants  
 (2) 1,700 Nm<sup>3</sup>/hr #601656 & #601284

#### Hydrogen Cyanide (HCN)

Hydrogen Cyanide Plant  
 5,000 tpy #601715

#### Hydrogen Peroxide

Hydrogen Peroxide Plant  
 50,000 mtpy #601164

Hydrogen Peroxide Plant  
 10,000 tpy #601353

#### Isopropyl Alcohol (IPA)

Isopropyl Alcohol Plant  
 45,000 tpy IPA #601729

Electronic Grade IPA Plant  
 10,000 tpy EL, 36,000 tpy IPA #600753

#### Magnesium Sulfate

Magnesium Sulfate Plant  
 170,000 tpy #601530

#### Melt Spinning

Melt Spinning Plant  
 300 kg/day #601644

#### Meta-Xylene

Meta-Xylene Plant  
 275 MM lbs/yr #601056

### 10,000 Nm<sup>3</sup>/hr Hydrogen Plant #601192

99.98% pure hydrogen is produced using butane feedstock in two 5,000 Nm<sup>3</sup>/hr lines, each sharing a common five-effect skid.



**IPP offers processing industries a faster-to-market solution with less capital investment by using second-hand plants and process units that are available now.**

### 170,000 tpy Magnesium Sulfate Plant #601530

Built in 2012, this plant involves the reaction of magnesium oxide and weak sulfuric acid, resulting in a final product of dry magnesium sulfate.



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### 200,000 tpy Methanol Plant #601458

Built in 2008, this plant utilizes a two-stage natural gas transforming system and three tower distillation.



#### Methanol

Methanol Synthesis Loop Plant  
500,000 tpy #600226

Methanol Plant  
200,000 tpy #601458

Methanol Plant  
110,000 tpy #601527

Methanol Plant  
95,000 tpy #601610

#### Methyl Amines

Methyl Amines Plant  
10,000 mtpy #601640

#### Methyl Amyl Ketone (MAK) and Dimethyl Ketone (DMK)

Methyl Amyl Ketone and Dimethyl Ketone Plant  
27,000 tpy #601723

#### Methyl Isobutyl Carbinol (MIBC)

Methyl Isobutyl Carbinol Plant  
2,000 tpy (from MIBK) #601724



#### **150 tpd Nitric Acid Plant #601627**

100% acid basis. 56% concentration. The plant uses a pelletized metallic oxide catalyst instead of platinum gauze for the oxidation process. It is equipped with a fume abater for NOx abatement.

#### Methyl Isobutyl Ketone (MIBK)

Methyl Isobutyl Ketone Plant  
8,000 tpy #601724

#### Methyl Methacrylate (MMA)

Methyl Methacrylate (MMA) Plant  
120,000 tpy #600885

#### Methyl Tert-Butyl Ether (MTBE)

Methyl Tert-Butyl Ether (MTBE) Plant  
33,000 mtpy #601722

#### Monoammonium Phosphate (MAP)

Monoammonium Phosphate Plant  
200,000 tpy #601709

#### Nickel

Nickel Smelter and Refining Plant  
6,000 tpy #601721

#### Nitric Acid

Nitric Acid Plant  
750 mtpd #601535

Nitric Acid Plant  
500 stpd #601515

Nitric Acid Plant  
360 tpd #601702

Nitric Acid Plant  
(2) 350 tpd #601536

Nitric Acid Plant  
(2) 325 tpd #601559

Nitric Acid Plant  
210 tpd (NA1) #601683

Nitric Acid Plant  
150 tpd #601627

Nitric Acid Plant  
110 tpd (60% weak) #601371

Nitric Acid Plant  
110 tpd (99% strong) #601372

#### Nylon 66

Nylon 66 Plant  
46,000 tpy #601485

#### Olive Oil

Olive Oil Plant  
40 tpd #601619

#### Paper

Pulp and Paper Plant  
325,000 tpy pulp, 280,000 tpy paper #601694

Coated Paper Plant  
250 tpd #601693

Paper Impregnation Line  
85 meter/minute #601613

#### Paraformaldehyde

Paraformaldehyde Plant  
6,500 tpy #601488

#### Penicillin

Penicillin Plant  
85 tpd #601122

#### Pentaerythritol

Pentaerythritol Plant  
8,500 tpy #601612

#### **6,500 tpy Paraformaldehyde Plant #601488**

This facility can produce 6,500 tpy solid type (flakes) paraformaldehyde and 1,000 tpy high concentrated formaldehyde stabilized with methanol. The continuous process is carried out in three stages.



**Looking to increase production capacity of your existing plant?** In addition to providing quality plants and processes as well as good used equipment to many industries, IPP can also supply complete systems to expand your process. If you have a need for reaction, drying, distillation, separation, storage or fermentation systems, you should speak with IPP about our capabilities.

## Pharmaceutical

Active Pharmaceutical Ingredients  
 Small Scale API Plant #601695

Active Pharmaceutical Ingredients  
 550 tpy API Plant #601466

Pharmaceutical Plant  
 1,700 MM tablets/year #601672

## Phenol

Phenol Plant (with Cumene Plant)

200,000 tpy phenol and  
 125,000 tpy acetone #601060

## Phenol Plant

50,000 tpy phenol and  
 58,500 tpy acetone #601705



### 200,000 tpy Phenol Plant #601060

Capable of up to 200,000 tpy of phenol and 125,000 tpy of acetone production, this phenol facility utilizes two reaction phases. This plant is part of complex capable of producing up to 355,000 tpy of cumene.

## Phosphoric Acid

Phosphoric Acid Plant  
 170 tpd #601708

## Phthalic Anhydride

Phthalic Anhydride Plant  
 45,000 tpy #601712

Phthalic Anhydride Plant  
 142 mmpy #601675

## Polyester Resin

Unsaturated Polyester Resin Plant  
 20,000 mtpy #601461

## Polyethylene

High Density Polyethylene Plant  
 131,000 tpy HDPE #601117

Low Density Polyethylene Plant  
 237,000 tpy LDPE #601274

Low Density Polyethylene Plant  
 50,000 tpy LDPE #601360

Linear Low Density Polyethylene Plant  
 145,000 tpy LLDPE #601115

## Polyethylene Terephthalate (PET)

Multiple esterification and  
 polymerization lines

We have an extensive database  
 of plants that are currently for sale  
 around the world, so please let us know  
 about any industrial projects in the  
 planning or expansion phase.

## Polyols

Polyols Plant  
 20,000 tpy #600893

## Polyoxymethylene (POM)

Polyoxymethylene (POM) Plant  
 60,000 tpy #601681

Polyoxymethylene (POM) Plant  
 55,000 tpy #601696

### 20,000 tpy Polyols Plant #600893

This polyols facility consists of two completely independent lines, each capable of producing a full range of polyols. Each production train has a reaction and finishing section.



## 131,000 tpy High Density Polyethylene Plant (HDPE) #601117

HDPE is produced by the polymerization of ethylene. The plant consists of the following sections shared by two product lines: polymerization, centrifugation and drying, additive and granulation, storage and packaging, recovery of byproducts, and treatment of gaseous effluents.



CLICK  
HERE

**125,000 tpy PVC Plant #601569**

This PVC plant is a first class plant with updated technology and like new equipment. Process sections include VCM polymerization, demonomerization, recovery of un-reacted VCM, PVC suspension drying, and PVC packaging.

**Polyvinyl Chloride (PVC)**

Polyvinyl Chloride (PVC) Plant  
125,000 tpy #601569

Emulsion PVC (E-PVC) Plant  
24,000 tpy E-PVC #601571

**Power Plants**

50 Hz and 60 Hz facilities of varying capacities available

**Propane Dehydrogenation PDH)**

Propane Dehydrogenation Plant  
330,000 tpy Polymer Grade PDH and  
90,000 tpy Chemical Grade #601716

**Refineries**

Crude Oil Refinery  
200,000 bpd #601413

Crude Oil Refinery  
70,000 bpd #601516

Crude Oil Refinery  
70,000 bpd (13) units totaling 3.2 mtpy  
#600609

Crude Oil Refinery  
52,000 bpd #601093

Crude Oil Refinery  
21,700 bpd #601614

**200,000 BPD Crude Oil Refinery #601413**

This refinery is available for sale as a complete refinery or as individual units. Refinery units available include distillation units (i.e. naphtha fractionator), treating units (naphtha unifiner and heavy diesel unifiner), conversion units, sulfur recovery units (sulfur recovery and tail gas heating), gas treating units, reforming units and hydrogen manufacturing units.

**Styrene Monomer**

Styrene Monomer Plant  
285,000 mtpy #601717

**Sulfuric Acid**

Sulfuric Acid Plant  
1,650 mtpd #601443

Sulfuric Acid Plant  
400 mtpd #600601

Sulfuric Acid Plant  
(with Aluminum Sulfate Plant)  
200 tpd SA, 30 tpd Aluminum Sulfate  
#601298

Sulfuric Acid Plant  
40 tpd #600622

**Titanium Dioxide**

Titanium Dioxide Plant  
80,000 tpy #601344

**1,650 tpd Sulfuric Acid Plant #601443**

This plant is capable of producing 1,650 tons per day of sulfuric acid with 99.2% concentration. In addition to sulfuric acid, this plant can also produce 250 tons per day of oleum. It has proven reliability at 98% on-stream time. In recent years almost all major equipment has been replaced.



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We have an extensive database of plants that are currently for sale around the world. International Process Plants has over 150 plants and process lines in our inventory, so let's discuss your current and planned projects and find out how we can work together.

# IPP PURCHASES CLOSED PLANTS & PROCESSES

International Process Plants can help you monetize a plant closure through the purchase of your closed plant. Our objectives are to work with companies to meet their plant and equipment needs, reorganizations and rationalizations. This may include our purchase of your complete plant with the land, buildings and assuming the environmental liabilities.

CALL +1-609-586-8004 IF YOU OWN A PLANT THAT IS FOR SALE, OR KNOW OF ONE THAT IS AVAILABLE.



## 1,500 tpd Urea Granulation Plant #600709

This late model urea granulation plant is made up of two sections, urea granulation production and process condensate treatment. In the fluid bed process of the urea granulation section, granular urea is produced by spraying liquid urea onto seed material in a fluidized state.

### Urea

#### Urea and Ammonia Plants Complex

1,750 mtpd Ammonia, 3,000 mtpd Urea  
#601549

#### Urea and Ammonia Plants Complex

1,100 mtpd Ammonia, 1,300 tpd Urea  
#601272

#### Urea and Ammonia Plants Complex

600 tpd Ammonia, 550 tpd Urea #601596

#### Urea Granulation Plant

1,500 tpd #600709

#### Urea Formaldehyde Resin

Urea Formaldehyde Resin Plant  
55,000 tpy #601561

#### Vinyl Chloride Monomer (VCM)

Vinyl Chloride Monomer Plant  
with associated EDC Plant  
185,000 tpy #601728

Vinyl Chloride Monomer Plant  
with associated EDC Plant  
170,000 tpy #601570

If you have an industrial project or expansion,  
IPP would like to speak with you.

With over 150 available complete plants and systems,  
it is likely we have the process you require.

## 55,000 tpy Urea Formaldehyde Resins Plant #601561

Urea formaldehyde resins are obtained by a poly condensation reaction of urea and formaldehyde in an acid medium. All reactors in the plant can run independently from each other and have a DCS process control system. Process steps include formaldehyde loading, pH correction, urea addition, reaction mixture heating, acidification (pH reduction) to start polycondensation reaction, resin cooling and final product transfer.



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# FEATURED PLANT ACQUISITIONS

## ETHANE CRACKER | NPK FERTILIZER PLANT



### We Can Source Any Plant, Anywhere In the World

At any given time, IPP's business development team is in constant conversation with companies around the world that are in idled or soon-to-be idled situations. If we do not have the production plant or line you require at the current time, there is a pretty good chance we're in discussions to acquire one.

### Benefits Of Buying A Plant From IPP

We are not brokers, we are buyers. IPP's plants cost a fraction of the capital needed to build new ones. Another benefit for IPP's clients is saving valuable time-to-market. Most plants can be relocated and ready for operation within 18 months or less, when compared to new plant sourcing and construction that can take 4 years or longer.



### Ethane Cracker #601700

180,000 tpy

This plant utilizes the Lummus technology of pyrolysis with ethane as the feedstock to produce ethylene with a purity of 99.96%. Byproducts include hydrogen, methane, propane and propylene. The process includes six pyrolysis furnaces with gas burners, gas compressor, acetylene reactor and multiple dryers and columns.

### NPK Fertilizer Plant #601635

100,000 tpy

Built in 2010, this plant was designed for the production of NPK granular fertilizers. It is still in operation and good working condition. This opportunity is available to operate in place or relocate to your site. The process involves the following steps: storage and dosage of raw materials, grinding, mixing and granulation, drying and cooling, and intermediate products storage and final product packaging.



### IPP At A Glance:

90% of IPP's purchases are from large multinationals.

IPP's business relationships include every Fortune 100 member and 92% of the Fortune 500 members that operate in the industries we serve.

IPP has sold production plants or equipment to over 10,000 small to mid-sized manufacturers around the world.

**Looking to increase production capacity of your existing plant?** In addition to providing quality plants and processes as well as good used equipment to many industries, IPP can also supply complete systems to expand your process. If you have a need for reaction, drying, distillation, separation, storage or fermentation systems, you should speak with IPP about our capabilities.

# WE ARE CASH BUYERS FOR IDLED ASSETS

## IPP Pays Top Dollar for Idled Plants, Process Lines & Equipment



### IPP WORKS WITH COMPANIES ON THE FOLLOWING:

- Divestitures
- Plant shut downs
- Dismantling and demolition
- Acquisitions
- Equipment purchases
- Real estate
- Capital projects
- Warehouse inventory reductions

International Process Plants buys individual pieces of equipment, production lines, and complete manufacturing plants including buildings and real estate.

We also provide turnkey dismantling, removal and demolition services. In many cases, IPP will take on the environmental remediation.

IPP purchases assets from corporations restructuring their manufacturing portfolio.

In addition to buying idled assets, IPP:

- ✓ Provides solutions for industrial projects
  - We own and have for sale 100 complete plants and processes
  - We maintain a vast inventory of equipment to aid in process expansion and replacement
- ✓ Executes turnkey reclamation / demolition projects
- ✓ Completed over 300 major plant sales, closures and demolition projects
  - We recycle over 95% of project materials.
  - We are the experts at what we do.



**IPP**

INTERNATIONAL  
PROCESS PLANTS

CONTACT US

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**IPP KEEPS YOUR COMPANY'S  
BOTTOM LINE IN MIND**



INTERNATIONAL  
PROCESS PLANTS

410 Princeton Hightstown Rd  
Princeton Junction, NJ  
08550 USA

**Mailroom:** Please deliver to the Owner, Plant Manager or Process Engineer if addressee is no longer available.

## Complete Plants & Process Lines Available Now

International Process keeps an inventory of over 150 complete plants and process lines to serve your process needs. All of our used plants offer significant savings in capital investment and time compared with new plant construction.

**Methanol Plant**  
200,000 tpy



**Acetic Acid Plant**  
400 mtpd



**Cumene Plant**  
355,000 tpy



**Ethylene Complex**  
450,000 tpy



**Hydrogen Plant**  
10,000 Nm<sup>3</sup>/hr



**Magnesium Sulfate Plant**  
170,000 tpy



**Nitric Acid Plants**  
110 tpd to 750 mtpd



### COMPLETE PLANTS & PROCESS LINES AVAILABLE NOW

Gasification | Ethylene | Nitric Acid | Butadiene | Acetic Acid | PET Resins | Sulfuric Acid  
Polypropylene | Hydrogen | Methanol | Crude Oil Refineries | Urea | Phosphoric Acid | PVC  
VAM | Phenol & Cumene | Ammonia | IPA | Caprolactam | LNG | Edible Oils | Detergent  
API | Maleic Anhydride | Fatty Acid | Paraformaldehyde | LPG Terminal | Magnesium Sulphate

*If you do not see the process you require in this list of available plants, call  
+1-609-586-8004 or visit [www.ippe.com](http://www.ippe.com) to explore our plant inventory.*



If your company owns a plant, or is aware of any that are closed or soon-to-be-idled, we would like to speak with you.  
Please call +1-609-586-8004 or e-mail [buyusedplants@ippe.com](mailto:buyusedplants@ippe.com).