

# **Paydar Energy Engineering and Construction Group**

Paydar Energy Engineering and Construction Group (PEECG) has been one of the Iranian leading industrial water and wastewater treatment companies since 1995 especially in desalination water treatment systems. With more than 20 years experiences and executing different water treatment projects and water desalination units, PEECG continues to assist industries to solve their water requirement with expert designers and fabrication shop facilities with the name of Pender Industry and has been execute water treatment plants, DM water units, Desalination units and effluent treatment units as EPC contractor.

At present PEECG is active in the following fields for Petrochemical, Oil and gas projects:

➤ **Field of activities**

- Sea water, brackish water desalination units.(R.O)
- Industrial water treatment plants
- DM water units, Ion Exchange Systems, Mixed-bed polishers, CEDI units
- Condensate polishing units
- Ultra filtration system
- Pretreatment systems such as lime-softening, Coagulation-Flocculation, Sea DAF, Clarifiers and Different type of filtration systems
- Industries wastewater and effluent treatment units, especially oily wastewater treatment.
- Municipal and Sanitary wastewater treatment plants
- Automation and control systems of above mentioned units

➤ Some of our projects are listed bellows:

Item	Project Subject	Capacity	Client	Location	Date
1	Wastewater to Industrial Water, Tohidshahr	34820 m <sup>3</sup> /day, with peak to normal coefficient of 2.32	Khorasan Razavi Water and Wastewater Co.	Sabzevar, Tohidshahr, Iran	Current
2	Sea water RO Desalination plant	2450 m <sup>3</sup> /hr PERMEATE WATER 1850 m <sup>3</sup> /hr LOW TDS 500 m <sup>3</sup> /hr DM WATER	Bushehr Petrochemical Company	Assaluyeh	Current
3	Mixed-bed Polisher Package	2×55 m <sup>3</sup> /hr	Bushehr Petrochemical Company	Assaluyeh	Current
4	TMA Removal Package	2×156 m <sup>3</sup> /hr	Bushehr Petrochemical Company	Assaluyeh	Current
5	Cooling tower + side stream filters	27,500 m <sup>3</sup> /hr	Bushehr Petrochemical Company	Assaluyeh	Current
6	Cooling tower + side stream filters	22,000 m <sup>3</sup> /hr	Bushehr Petrochemical Company	Assaluyeh	Current
7	Cooling tower + side stream filters	7500 m <sup>3</sup> /hr	Bushehr Petrochemical Company	Assaluyeh	Current
8	Mixed-bed Polisher for Methanol Plant	2×300 m <sup>3</sup> /hr	Bushehr Petrochemical Company	Assaluyeh	Current
9	Mixed-bed Polisher Package	2×100 m <sup>3</sup> /hr	Morvarid Petrochemical Company	Assaluyeh	2015
10	Sea Water RO Desalination Plant	300 m <sup>3</sup> /hr	Pardis Petrochemical Company	Assaluyeh	2016
11	Mixed-bed Polisher	2×265 m <sup>3</sup> /hr	Pardis	Assaluyeh	2016

	Package		Petrochemical Company		
12	Condensate Polisher Package	3×325 m <sup>3</sup> /hr	Pardis Petrochemical Company	Assaluyeh	2016
13	CCM Unit Cooling Water Treatment Package	210 m <sup>3</sup> /hr	Khorasan Steel Manufacturing Company	Neyshabour	Current
14	Sea Water RO Desalination Unit	2x500 m <sup>3</sup> /day	Mobin Petrochemical Company	Assaluyeh	2006
15	DM water Package	3x150 m <sup>3</sup> /hr	Kavian Petrochemical Company	Assaluyeh	2011
16	Condensate Polishing Package	2x300 m <sup>3</sup> /hr	Kavian Petrochemical Company	Assaluyeh	2011
17	Clarification water treatment Units	4800 m <sup>3</sup> /hr	Khorasan Steel Co.	Neyshabour	2008
18	DM Water Producing Through Two pass R.O. system	2x40 m <sup>3</sup> /hr	Ghaed Bassir Petrochemical Company	Golpayegan	2003
19	Condensate Polishing Package	2x85 m <sup>3</sup> /hr	Marun Petrochemical Company	Mahshahr	2005
20	DM Water Producing Through Two Pass R.O. System	3400 m <sup>3</sup> /day	Khangiran Gas Refinery	Serakhs	2009
21	DM Water Producing through R.O. Unit following by Mixed Bed Polisher	2x30 m <sup>3</sup> /hr	Kimiya Gharb Gostar Industries Company	Kermanshah	2004
22	Condensate Polishing Package	460 m <sup>3</sup> /hr	Shiraz Petrochemical Company	Shiraz	2015
23	Oily Water Treatment System	120 m <sup>3</sup> /hr	Petrochemical Industries development Management Company (PIDEMCO)	Bandar imam Petrochemical Company (MTBE Unit)	2002
24	DM Water Producing System	3x100 m <sup>3</sup> /hr	Ghadir Petrochemical Company	Mahshahr	2008

- **Tohidshahr wastewater to industrial water treatment plant**

- Client Kohrasan Razavi Water and Wastewater Co.
- Capacity 34820 m<sup>3</sup>/day, Peak to normal coefficient: 2.32
- Source of feed water:  
Sanitary Wastewater, BOD 305, COD 635, TSS 335, TKN 51, TP 15, TDS 1800
- Quality of product water  
Industrial Water, BOD< 5, COD< 15, TSS< 5, TKN< 5, TP< 4, TDS< 100
- Biological System:  
Coarse and Fine Trash Screening + Grit and Grease Removal + Primary settling, A2O+ MBBR + Secondary Settling + Chlorination
- Post Treatment:  
Sand Filters + Activated Carbon + UF+ RO (or maybe CDI)
- Status Under Construction





- **Two Pass SeaWater R.O. Units + Mixed-beds Polisher Package**

- Client Pardis Petrochemical Co.
- Capacity 300 m<sup>3</sup>/hr
- Source of feed water Sea water
- Quality of product water Conductivity < 1 µS/cm
- Executed 2016 Start Up



- **Seawater R.O. Desalination Unit:**

- Client Mobin Petrochemical Co.
- Capacity 1000 m3
- Source of Water Sea Water
- Product Water Potable Water
- Executed 2005





- **Two Pass R.O. Package**

- |                            |                              |
|----------------------------|------------------------------|
| – Client                   | Ghaedbasir Petrochemical Co. |
| – Capacity                 | 2x40 m <sup>3</sup> /hr      |
| – Source of feed water     | Well Brackish Water          |
| – Quality of product water | Conductivity < 5 µS/cm       |
| – Executed                 | 2002                         |





- **Condensate Polishing Package:**

- Client Maroon Petrochemical Co. (SPEC)
- Capacity 2 x 85 m<sup>3</sup>/hr
- Quality of product water Conductivity < 0.2 µS/cm

- Executed  
2004



- **DM Water Package:**

- |                            |                          |
|----------------------------|--------------------------|
| – Owner                    | Ghadir Petrochemical Co. |
| – Capacity                 | 3x100 m <sup>3</sup> /hr |
| – Quality of product water | Conductivity < 2 µS/cm   |
| – Executed                 | 2009                     |



- **Condensate Polishing Package:**

- Owner           Kavian Petrochemical Co.
- Capacity       2 x 300 m<sup>3</sup>/hr
- Executed       2011





- **Brackish Water R.O. UNIT**

- Owner           Khorasan Steel Complex
- Capacity        260 m<sup>3</sup>/hr
- Executed        2009



- **Condensate Polishing Package:**

- Owner Shiraz Urea/Ammonia Complex.
- Capacity 460 m<sup>3</sup>/hr
- Executed 2015



- **Clarifier Unit:**

- Owner Khorasan Steel Complex.
- Capacity 4800 m<sup>3</sup>/hr
- Executed 2008





- **Two Pass Brackish Water R.O. Unit**

- Owner           Khangiran gas refinery
- Capacity        3400 m<sup>3</sup>/day
- Executed        2011



- **DM Water Package:**

- Owner           Kavian Petrochemical Co.
- Capacity        3x150 m<sup>3</sup>/hr
- Executed        2010





Paydar Energy Co.

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Address: Unit 2, No.33, Alvand 3 Str., Ebrahimi Ave., Marzdaran Blvd., Tehran, Iran  
P.O. Box: 1463693746, Telefax: +982173932656, email: [info@paydarenergy.com](mailto:info@paydarenergy.com)