

## European Solar and Energy Storage Solutions

# Vdl energy systems Iran



## Overview

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What is VDL energy systems?

VDL Energy Systems develops applications that make it possible to convert hydrogen into electrical energy, using state-of-the-art PEM fuel cell technology. in a range from 50 to >250 KW power supply. VDL Energy Systems balances rotors of compressors and turbines at high speeds according to the latest protocols and ISO standards.

What is VDL's energy mix?

VDL is proud to be at the forefront of this initiative and looks forward to seeing the positive impact it will have on the people of Curacao as they move towards a more sustainable future. Currently, our energy mix consists of approximately 20% electricity and 80% natural gas or liquid fossil fuels.

What is VDL Groep?

ove everyone's wellbeing and prosperity. With a drive to excel, for now and for future generations.VDL Groep develops and produces a wide variety of industrial products from parts to advanced finished products. Our activities can be summarised in the 'five worlds of VDL': Hightech.

What makes VDL unique?

chMobilityEnergyInfratechFoodtechEach one of these worlds has its own characteristics and challenges, whereby VDL plays a unique role in the development and production of products, machines, componen s or services and comprehensive solutions. Som times visible, sometimes hidden from view. But always with a subst.

What are the five worlds of VDL?

from parts to advanced finished products. Our activities can be summarised in the 'five worlds of VDL': Hightech Mobility, Energy, Infratech and Foodtech. Each of these 'worlds' has its own characteristics and challenges, with one

common denominator: unique combination

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### MAKE A DIFFERENCE TO THE WORLD OF TOMORROW

VDL is a system supplier of high-tech equipment for the semiconductor, analytical and health sectors. We are invisibly present in the entire healthcare chain; from birthing aids to the most innovative operating room equipment. We also build modules for chip machines and develop and produce the vacuum chamber, the source of EUV light.

### VDL Energy Systems , LinkedIn

VDL Energy Systems , 2.085 follower su LinkedIn. VDL Energy Systems contributes to making the energy system more sustainable. We do this by developing Smart, Scalable and Reliable applications with the focus on energy storage and conversion. The products developed by VDL Energy Systems for this are: lithium-ion energy storage systems, hydrogen fuel cell generators ...



### VDL Energy Systems

VDL Energy Systems , 1,898 followers on LinkedIn. Production of compressor and gas turbine packages and components for the oil and gas industry. Supplying systems, solutions and services focused on power generation, conversion, -transport and the use of energy.

### Rotterdam plans 1 GW fab to

## make battery-powered electrolyzers

3 ???· Site construction will be supported by partners including the Port of Rotterdam and automation company VDL. (EESA EXPO) has underlined the latest energy density achievements in the battery energy storage space on both cell and system levels. Meanwhile, the sheer number of commercial and industrial (C& I) systems on display spoke of growing



## Machining & Service Shop

VDL Energy Systems has a state of the art balancing bunker in which VDL can balance rotors at high speed. VDL Energy Systems balances rotors of compressors and turbines at both low and high speeds according to the latest protocols and ISO standards. VDL balance rotors at high speeds up to a weight of 8000 kg, up to a shaft length of 5300 mm and

## VDL Energy Systems

VDL Energy Systems , 2,159 followers on LinkedIn. Production of compressor and gas turbine packages and components for the oil and gas industry. Supplying systems, solutions and services focused on power generation, conversion, -transport and the use of energy.



## e-PU60

The performance is monitored and controlled using the Victron Remote Energy Management system, providing a user friendly interface to the system from anywhere in the world. VDL Energy Systems. Darwin 10, 7609 RL Almelo, Nederland. T: +31 (0) 546 649400. E: info@vdlenergysystems . Facebook LinkedIn

Twitter Instagram.



## VDL Energy Systems , Innovatieve oplossingen voor de ...

VDL Energy Systems is een jonge organisatie die met haar innovatieve kracht een bijdrage levert aan de energietransitie door slimme batterij- en waterstofsysteem te ontwerpen én te produceren. Naast deze activiteiten heeft de organisatie de kennis en de equipment om rotoren van elektromotoren, compressoren en van turbines te balanceren bij



## VDL Energy Systems

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VDL Energy Systems , 1.915 Follower:innen auf LinkedIn. VDL Energy Systems contributes to making the energy system more sustainable. We do this by developing Smart, Scalable and

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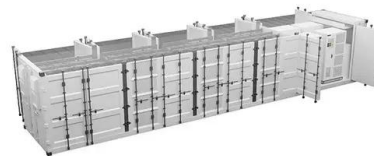
## energy storage system

The modular and containerized design of the e-PU20 facilitates a flexible lithium-ion energy storage system in a variety of configurations both on-grid and off-grid. It is developed to supply emission free and low noise energy in variety of environments as events, constructions sites and also in a metropolitan or urban environment.



## Batterypack

Our energy storage system is equipped with VDL Energy Management Software, a state-of-the-art system that optimizes energy usage, monitors performance, and offers remote control and monitoring capabilities. With its user-friendly interface, you can easily manage and monitor your energy storage system, making it a hassle-free and efficient



## VDL Groep

VDL Groep. Sinds 2018 is VDL Energy Systems onderdeel van VDL Groep. VDL Groep, met het hoofdkantoor in Eindhoven, is een internationale, industriële onderneming die zich toelegt op de ontwikkeling, productie en verkoop van halffabricaten, bussen en overige eindproducten en de assemblage van personenauto's..



## VDL Energy Systems , LinkedIn

VDL Energy Systems , 2.234 Follower:innen auf LinkedIn. VDL Energy Systems contributes to making the energy system more sustainable. We do this by developing Smart, Scalable and Reliable applications with the focus on energy storage and conversion. The products developed by VDL Energy Systems for this are: lithium-ion energy storage systems, hydrogen fuel cell ...



## Energy

VDL's Innovative Energy Solutions. At VDL Groep, we strive to leave a more pristine planet. We are actively investing in energy solutions and expanding our impact. We focus on energy storage and transportation, and believe hydrogen will become important. We develop better mobility with electric batteries and our super-battery offers a green

## Energy Storage Systems

VDL Energy Systems develops clean energy storage systems based on state of the art lithium-ion battery technology and software, in a range from 60 kWh to >1000 kWh. Our applications are plug/play, scalable, smart and versatile under the name of Electrical Power Units (e-PU).



## energy storage system

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## Energy Transition solutions

At VDL Steelweld, we develop cost effective, flexible and scalable manufacturing solutions for several markets. VDL Steelweld currently focuses on solutions for battery and fuel cell manufacturing. We take on the challenge to industrialise the products that provide us with a greener future by:



## Energy

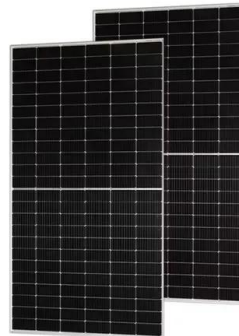
L'objectif de VDL Groep est de transmettre une planète préservée aux générations futures. Nous investissons activement dans des solutions énergétiques et augmentons notre impact. Nos travaux sont axés sur le stockage d'énergie et le transport et nous sommes convaincus que l'hydrogène deviendra important.



 **LFP 48V 100Ah**

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