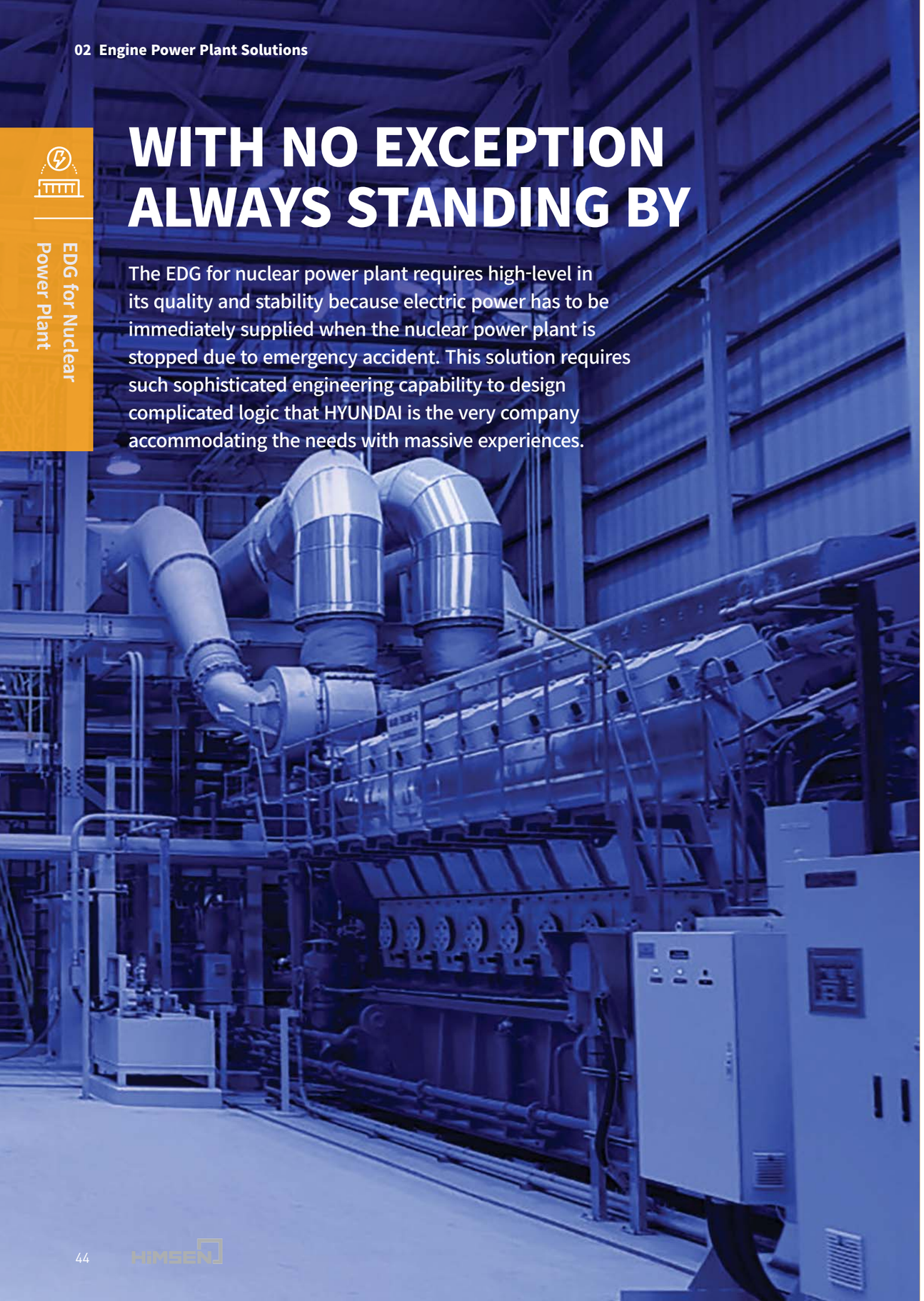
EDG for Nuclear Power Plant

WITH NO EXCEPTION ALWAYS STANDING BY

The EDG for nuclear power plant requires high-level in its quality and stability because electric power has to be immediately supplied when the nuclear power plant is stopped due to emergency accident. This solution requires such sophisticated engineering capability to design complicated logic that HYUNDAI is the very company accommodating the needs with massive experiences.



Why EDG?

Emergency diesel generators are started when the NPP unit is disconnected from the grid. Emergency diesel generators safeguard the power supply to vital consumers such as the reactor cooling system so that a controlled reactor shutdown can be guaranteed.

Who Is It For?

Nuclear Power Plant

Why Are They Good?

1. RELIABILITY AND HIGH PERFORMANCE

HYUNDAI has been supplying emergency diesel generators(EDGs) for nuclear power plant for more than 30 years. With EDG systems supplied to 6 nuclear power plants, we have not only gained a wealth of experience and expertise, but also gained reputation for products that deliver outstanding reliability and performance.

2. CUSTOMIZATION FOR EACH PROJECT

Since every project has different requirement, HYUNDAI has developed a major NPP-based engineering with specialists capable of handling every aspects of project-specific NPP requirements and matching any customer's complicated needs.

3. ENSURING QUALITY STANDARD

All EDG projects are organized and implemented in line with NPP-related quality standards such as KEPIC QAP and ASME NQA-1. Our EDGs are safety-classified to meet the strictest regulations in the nuclear power industry, with qualifications in line with IEEE 387.

Scope of Supply

1. **Diesel Generator set**
2. **Mech. Aux. equipment**
3. **Elec. Aux. equipment**
4. **I&C Aux. equipment**
5. **Supervision of installation & commissioning**

Case ①

BARAKAH NPP EDG **U.A.E**

Proven Technology for Complex Nuclear Power Plant

Total Output	78.3MW
Customer	ENEC
Operating Mode	Emergency
Gensets	20H32/40V × 9sets
Fuel	DO
Scope	Genset + Equipment supply
Delivered	2017

Engine Shipment(1)

Engine Shipment(2)

On November 2011, HYUNDAI-EMBU received an order to supply total nine(9) sets of Emergency Diesel Generators and AC Diesel Generator(Engine model : 20H32/40V) from Korea Electric Power Corporation(KEPCO).

The EDG for nuclear power plant requires high-level in its quality and stability because electric power has to be immediately supplied when the nuclear power plant is stopped due to emergency accident. This solution requires such sophisticated engineering capability to design complicated logic that HYUNDAI is the very company accommodating the needs with massive experiences.

Reference List

Total Quantity of **38units**

Total Deliver of **328MW**

As of April, 2018

NO.	Project Name	Engine	Quantity	Country	Capacity(MW)	Year
1	60MW KKNPP (EDG)	16H32/40V	10	India	60	2022
2	30MW SKN #5,6 (EDG)	18H32/40V	4	S. Korea	30	2017
3	83.7MW UK HPC (EDG)	20H32/40V	9	UK	84	2016
4	48MW PAKISTAN K2/K3 NPP (EDG)	20H32/40V	5	Pakistan	48	2015
5	78.3MW UAE BARAKAH (EDG)	20H32/40V	9	UAE	78	2011
6	9MW KORI (EDG)	9H32/40	2	S. Korea	9	2010
7	19.2MW EMERGENCY (EDG)	12V240RVR	8	S. Korea	19	1987