**References**

The team has provided more than 300 diesel systems from 210 kVA to 7200 kVA for NPPs and conventional plants in the last 35 years, thereof 242 nuclear Emergency Diesel Generator sets. On the top of the delivery of complete systems, numerous EDG subsystem modernizations and related studies have been successfully implemented.

**Recent contracts of modernization projects**

- **Brunsbüttel (BWR Germany)**
  - Replacement of excitation system
  - Mechanical modernization (starting system and sensors)
  - Siemens (E/E System)

- **Blaubeuren (PWR Germany)**
  - Replacement of excitation and synchronization system
  - Siemens (E/E System)

- **Googgen (PWR Switzerland)**
  - Study for replacement of excitation, synchronization, protection system and switchgear

**Recent contracts for the replacement of installed EDG’s**

- **Cescharnt 1/2, Sweden**
  - Provision and installation of 4 new EDGs of ~2500 kW
  - Due to diversity requirements:
    - 2x MTU Engines 20V4000 + Siemens Generators; TXS + S7 Control
    - 2x Caterpillar 3512 + Siemens Generators; TXS + S7 Control

- **Duel, 1/2, Belgium**
  - Provision and installation of 3 new EDGs of ~2500 kW
  - MTU Engines 20V4000 + Siemens Generators; ESS + S7 Control

- **Abucita 1, Argentina**
  - Provision and installation of 3 new EDGs of ~2500 kW
  - Caterpillar 3512 + Siemens Generators; TXS + S7 Control

**Recent contracts for the supply of EDG’s and SBO (Station Black Out) Diesels for new NPPs**

- **NPP Tianwan 1+2 / China**
  - 8 gensets 6.000 kW

- **NPP LingAo II ext. 1+2 / China**
  - 4 gensets 6.000 kW

- **NPP Qinshan 1+2 / China**
  - 4 gensets 6.000 kW

- **NPP Fangjiashan 1+2 / China**
  - 5 gensets 6.000 kW

- **NPP Fuqing 1+2 / China**
  - 5 gensets 6.000 kW

- **NPP Yangiang 1-6 / China**
  - 13 gensets 6.000 kW

- **Olkiluoto 3 (4 EDGs + 2 SBO)**
  - Project Engineering for EDGs and supply

AREVA offers solutions for new nuclear power generation, its experts and innovation is the field are selling the standard and its responsible development is assumed in a proactive and committed manner.

In the global nuclear industry today, AREVA’s unique integrated offer as one of the leading companies in design and construction, and nuclear services. The group is in a phase of sustainable and responsible changes – with strong convergence, hydrogen and storage – to one of the big themes of this sector worldwide in 2010.

**References**

- **Oskarshamn, Sweden**
  - Replacement of excitation system
  - Replacement of excitation and synchronization system
  - Siemens (E/E System)

- **Biblis A/B (PWR Germany)**
  - Replacement of excitation and synchronization system
  - Siemens (E/E System)

- **Grafenrheinfeld (PWR Germany)**
  - Replacement of excitation system

- **Gösgen (PWR Switzerland)**
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**Recent contracts for the replacement of installed EDG’s**

- **Brunsbüttel (BWR Germany)**
  - Replacement of excitation system
  - Siemens (E/E System)

- **Guntersblumen B/C (WWR Germany)**
  - Replacement of excitation system
  - Siemens (E/E System)

- **Blaubeuren (PWR Germany)**
  - Replacement of excitation and synchronization system
  - Siemens (E/E System)

- **Googgen (PWR Switzerland)**
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- **Olkiluoto 3 (4 EDGs + 2 SBO)**
  - Project Engineering for EDGs and supply
AREVA Competence
in Emergency Power Supply

Our solutions

Engineering and Project Management
- Concept preparation
- Offer preparation
- Selection and qualification of suppliers
- Project management
- Design and documentation
- Calculations
- Nuclear qualification (XRA, XSE, RCC-C/6)
- Licensing procedures
- Building layout
- Plumbing design and layout
- Manufacturing supervision
- Electrical & Commissioning
- Documentation

Requirements
- Arrangement in a specific genset building or container
- Proven against external impacts like earthquakes, aircraft crashes and explosion pressure
- Autonomous arrangement of each single emergency genset
- Consequent division of plants
- Segregation of safety and non-safety related components and wiring
- Local control and monitoring, interfaces with Reactor Protection and GSSE (Engineered Safety Functions Actuation System)
- Starting time 10 to 15 seconds, ready to sequential loading
- Dimensioning for the specific load sequence

Diesel-Generator-Set
- High and medium speed engines from 220 kW up to 7500 kW and more
- Up to 9000 kVA and more as single unit
- Reactor in a common island panel
- Short time full-load acceptance 10 to 15 sec.
- Mechanical auxiliary systems

Qualified Safety I&C
- Digital AREVA TELEPERM XS or hard wired
- Emergency start program
- Load sequencer
- Multi-channel design
- Protection against overloading, low oil pressure and overspeed

Operational I&C
- START/STOP program for testing
- Annunciator system
- Operational system
- Standby functions
- Industrial PLC (programmable logic controller)

Generator Protection
- Operational and priority protection
- Engine shutdown with priority to ESFAS/RPS
- Plant adapted trip matrix
- Multifunctional digital protection devices
- Single analogue devices
- Automation and remote monitoring
- High precision, no drift
- Easy key-exchange and handling
- Self-check function

Synchronizing device
- Automatic synchronizing capability
- For parallel operation of emergency generators in a parallel operation
- For uninterrupted return to grid, achieved by automatic paralleling device

Our Competence
- Long-term experience in various countries, NPP types and regulatory environments
- Selection of emergency power generation sets in existing and new plants
- AREVA fully dedicated to the nuclear industry
- on key-execution
- Quality: Reliable and safe
- Customized
- Cost optimized
- Comprehensive
- Complete engineering solution capability incl. mechanical subsystems through AREVA in-house cooperation
- Long term experience in house workforce
- More than 50 engineers work for EDG topics
- Average EDG experience > 5 years

Diesel I&C (safety and operational control)

Requirements
- Arrangement in a specific genset building or container
- Proven against external impacts like earthquakes, aircraft crashes and explosion pressure
- Autonomous arrangement of each single emergency genset
- Consequent division of plants
- Segregation of safety and non-safety related components and wiring
- Local control and monitoring, interfaces with Reactor Protection and GSSE (Engineered Safety Functions Actuation System)
- Starting time 10 to 15 seconds, ready to sequential loading
- Dimensioning for the specific load sequence

Established strong partnerships

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Diesel Engines
- Mechanical Auxiliary Systems
- Piping & HVAC
- Control System Safety & Operational
- Auxiliary Power Supply

Digital AREVA TELEPERM XS with touchscreen

For the implementation of our demanding projects, AREVA cooperates with many different suppliers for all components of the complete system. In this way, we can offer choices and provide the most suitable solution for every need.

Digital AREVA TELEPERM XS with touchscreen

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AREVA Competence in Emergency Power Supply

**Emergency Diesel Generators (EDGs) Business Areas**
- Modernization of existing EDGs
- Customer support for finding reliable and licensable solutions
- Enhancement of facilities for retrofitting of auxiliaries and mechanical auxiliary systems
- Project Management for complex modernization projects with licensing support
- Replacement of installed EDGs
- Flexibility Studies
- Design, Supply and Direction of EDGs in existing or new buildings
- Supply of EDGs and SBO (Station Black Out) Diesels for new Nuclear Power Plants (SNP) & ISEP

**Our solutions**

**Engineering and Project Management**
- Concept preparation
- Offer preparation
- Selection and qualification of suppliers
- Project Management
- Design and dimensioning
- Calculations
- Nuclear qualification (KTA, IEEE, RCC C/0)
- Licensing procedures
- Building layout
- Layout and design
- Manufacturing supervision
- Commissioning
- Document formation

**Diesel-Generator Set**
- High and medium speed engines from 250 kW up to 7500 kW and more
- Up to 9000 kVA and more as single unit
- Starting within a common frame
- Short time full load acceptance 10 to 15 sec.
- Mechanical auxiliary systems

**Qualified Safety I&C**
- Digital AREVA TELEPERM XS or hard wired
- Emergency start program
- Load sequence
- Multi-channel design
- Protection against overheating, low oil pressure and overspeed

**Operational I&C**
- START/STOP program for testing
- Annunciator system
- Operational system
- Standby functions
- Industrial PLC (programmable logic controller)

**Generator Protection**
- Operational and priority protection
- Generator shutdown with priority to ESFAS/RPS
- Plant adapted trip matrix
- Multifunctional digital protection devices
- Single analogue devices
- Automatic fault recording
- Self check function
- Synchronizing device
- Automatic synchronizing capability
- For complete system of emergency generator set in parallel operation
- For uninterrupted return to grid, achieved by automatic paralleling device

**Excitation System**
- Compound excitation
- Short circuit supporting

**Power Supply**
- Self sufficient power supply for auxiliary drives and control systems, including switchgear, rectifiers, batteries and cables

**Established strong partnerships**
- Long-term experience in various countries, NPP types and regulatory environments
- Design and manufacturing of emergency power generation sets in existing and new plants
- AREVA fully dedicated to the nuclear industry
- On site execution
- Quality: Reliability and safety
- Customized: Cost optimized
- Inhouse: Comprehensive
c- Customer engineering solution capability incl. mechanical subsystems through AREVA in-house cooperation
- Long-term experience in house workforce:
- More than 30 engineers work for EDG topics
- Average EDG experience > 5 years

**Requirements**
- Arrangement in a specific genset building or container
- Proven against external impacts like earthquakes, aircraft crashes and explosion pressure
- Autonomous arrangement of each single emergency genset
- Consequent division of trains
- Segregation of safety and non safety related components and wiring
- Local control and monitoring, interfaces with Reactor Protection and Common Engineered Safety Functions Actuation System
- Starting time 10 to 15 seconds, ready to sequential loading
- Diminishing for the specific load sequence

**Engine Control Panel**
- Touchscreen and mosaic design

**Data Recording System**
- Touchscreen and mosaic design

**Emergency Diesel Generators (EDGs) Business Areas**
- Modernization of existing EDGs
- Customer support for finding reliable and licensable solutions
- Enhancement of facilities for retrofitting of auxiliaries and mechanical auxiliary systems
- Project Management for complex modernization projects with licensing support
- Replacement of installed EDGs
- Flexibility Studies
- Design, Supply and Direction of EDGs in existing or new buildings
- Supply of EDGs and SBO (Station Black Out) Diesels for new Nuclear Power Plants (SNP) & ISEP
Emergency Diesel Generators (EDGs) Business Areas

- Modernization of existing EDGs
- Customer support for finding reliable and licensable solutions
- Establishment of requirements for licensing or approval of auxiliaries systems
- Project management and complex modernization projects with licensing support
- Preparation of modified EDGs
- Feasibility studies
- Design, supply and erection of EDGs in existing or new buildings
- Supply of EDGs and ISO Station Black Out Diesel for new Nuclear Power Plants (SPP & IAP)

Diesel-Generator Set
- High and medium speed engines from 250 kW up to 5000 kW and more
- Up to 9000 kVA and more as single unit
- Power of a common frame
- Short time full load acceptance 10 to 15 sec.

Mechanical Auxiliary Systems
- Qualified Safety I&C
  - Digital AREVA TELEPERM XS or hard wired
  - Emergency start program
  - Load sequence
  - Multi-channel design
  - Protection against overheating, low oil pressure and overspeed

Operational I&C
  - START/STOP program for testing
  - Annunciator system
  - Operational system
  - Standby functions
  - Industrial PLC (programmable logic controller)

Generator Protection
  - Operational and priority protection
  - Engine shutdown with priority to ESFAS/RPS
  - Plant adapted trip matrix
  - Multifunctional digital protection devices
  - Single analogue devices

Synchronizing device
  - Automatic synchronizing capability
  - For parallel operation of emergency generator sets in parallel operation

Excitation System
- Compound excitation
- Short circuit supporting

Power Supply
- Self sufficient power supply for auxiliary drives and control systems, including switchgears, rectifiers, batteries and cables.

Requirements
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- Autonomous arrangement of each single emergency genset
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- Segregation of safety and non-safety related components and wiring
- Local control and monitoring, interfaces with Reactor Protection and EDG Engineered Safety Functions Actuation System
- Starting time 10 to 15 seconds, ready to sequential loading
- Diminishing for the specific load sequence

Our solutions

Engineering and Project Management
- Concept preparation
- Offer preparation
- Selection and qualification of suppliers
- Project management
- Design and dimensioning
- Calculations
- Nuclear qualification (XLA, XCC, RCC-E/M)
- Licensing procedures
- Building layout
- Plant layout and detail
- Manufacturing supervision
- Electrical & Commissioning
- Documentation

Diesel-Generator Set
- High and medium speed engines from 250 kW up to 5000 kW and more
- Up to 9000 kVA and more as single unit
- Power of a common frame
- Short time full load acceptance 10 to 15 sec.
- Mechanical auxiliary systems

Qualified Safety I&C
  - Digital AREVA TELEPERM XS or hard wired
  - Emergency start program
  - Load sequence
  - Multi-channel design
  - Protection against overheating, low oil pressure and overspeed

Operational I&C
  - START/STOP program for testing
  - Annunciator system
  - Operational system
  - Standby functions
  - Industrial PLC (programmable logic controller)

Local Control Panel
  - Touchscreen and/or mosaic design

Generator Protection
  - Operational and priority protection
  - Engine shutdown with priority to ESFAS/RPS
  - Plant adapted trip matrix
  - Multifunctional digital protection devices
  - Single analogue devices

Synchronizing device
  - Automatic synchronizing capability
  - For parallel operation of emergency generator sets in parallel operation
  - For uninterrupted return to grid, achieved by automatic paralleling device

Digital AREVA TELEPERM XS with touchscreen

Established strong partnerships

- Long-term experience in various countries, NPP type and regulatory environments
- Selection of emergency power generation sets in existing and new plants
- AREVA fully dedicated to the nuclear industry
- In-house execution
- Quality: Reliable and safe
- Customized
- Cost optimized
- Comprehensive
- Complete engineering solution capability incl. mechanical subsystems through AREVA in-house cooperation
- More than 30 engineers work for EDG topics
- Average EDG experience > 5 years

AREVA Competence in Emergency Power Supply

Self-sufficient power supply for auxiliary drives and control systems, including switchgears, rectifiers, batteries and cables.
Interested in further details or is there anything else that AREVA can do for you? Please contact your regional sales manager or

AREVA, a leading global nuclear industry player, offers unique solutions for electrical systems. AREVA’s Emergency Diesel Generator Solutions provide reliable and efficient power generation in critical situations. AREVA’s solutions are designed to meet the needs of various industries, ensuring a smooth and secure operation.

Recent contracts of modernization projects
- Brunsbüttel (BWR Germany)
- Replacement of excitation system
- Mechanical modernization (starting system and sensors)
- Areva NP GmbH
- Replacement of excitation and synchronization system
- Areva NP GmbH
- Replacement of excitation system
- Areva NP GmbH
- Study for replacement of excitation, synchronization, protection system and switchgear

Recent contracts for the replacement of installed EDG’s
- Dalsarntum 1+2, Sweden
  Provision and installation of new EDGs (~2500 kW)
  Due to diversity requirements:
  - 2x MTU Engines, 3x9·4000 + Siemens Generators, TGS + S7 Control
  - 2x Caterpillar 3608 + Leroy-Somer Generators, hard wired TXS + S7
- Delft 1+2, Belgium
  Provision and installation of new EDGs (~2500 kW)
  - MTU Engines, 2x9·4000 + Siemens Generators, RepH + S7 Control
- Aschaffenburg 1, Germany
  Provision and installation of new EDGs (~2500 kW)
  - Caterpillar 3608 + Siemens Generators, TXS + S7 Control

Recent contracts for the supply of EDG’s and SBO (Station Black Out) Diesels for new NPPs
- NPP Tianwan 1+2, China (8 gensets 6.000 kW)
- NPP LingAo II ext. 1+2, China (4 gensets 6.000 kW)
- NPP Qinshan 1+2, China (4 gensets 6.000 kW)
- NPP Fangjiashan 1+2, China (5 gensets 6.000 kW)
- NPP Fuqing 1+2, China (5 gensets 6.000 kW)
- NPP Yangjiang 1-6, China (13 gensets 6.000 kW)
- Olkiluoto 3, Finland (4 EDGs + 2 SBO)

References

The team has provided more than 300 diesel systems from 210 kVA to 7200 kVA for NPPs and conventional plants in the last 35 years, thereof 242 nuclear Emergency Diesel Generator sets. On the top of delivering complete systems, numerous EDG subsystem modernizations and related studies have been successfully implemented.

AREVA’s expertise includes:
- Free power generation, its operation and management in the field are setting the standard and its responsible development is acclaimed in a process of continuous improvement.

As the global nuclear industry leader, AREVA’s unique integrated offer is utilized every day in the field of the full chain, from reactor design, to construction and online services. The group is in the process of continuously improving the service - with cost, know-how, flexibility and strategy - to be one of the top three reactor vendors worldwide in 2010.

Thus far, AREVA’s HPP-Neuruppin achieved the synergies between these two major carbon-free energy, helping to supply safe and clean and more economical energy in the greatest number of people.

Please contact your regional sales manager or

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References

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Recent contracts of modernization projects

- Brunssum/BMW Germany
  - Replacement of excitation system
- Gundremmingen B/C (AREVA Germany)
  - Replacement of excitation system
- Monegros (AREVA Spain)
  - Mechanical modernization (starting system and sensors)
- Bilbao A/B (AREVA Germany)
  - Replacement of excitation and synchronization system
- Googel/PRL-Switzerland
  - Study for replacement of excitation, synchronization, protection system and switchgear

Recent contracts for the replacement of installable EDG’s

- Örnsköldsvik 1-2 / Sweden
  Provision and installation of 4 new EDGs of ~2000 kW
  Due to diversity requirements.
  2x MTU Engines 20V4000 + Siemens Generators; TXS + S7 Control
  2x Caterpillar 3512 B + Siemens Generators; also TXS + S7
- Doel 1-2 / Belgium
  Provision and installation of 3 new EDGs of ~2500 kW
  MTU Engines 20V4000 + Siemens Generators; RelSys + S7 Control
- Akuja 1 / Argentina
  Provision and installation of 3 new EDGs of ~3500 kW
  Caterpillar 16V2000 + Siemens Generators; TXS + S7 Control

Recent contracts for the supply of EDG’s and SBO (Station Black Out) Diesels for new NPPs

- NP Tianwan 1+2 / China (8 gensets 6,000 kW)
- NP Lingao 2nd 1-2 / China (5 gensets 6,200 kW)
- NP Shadyo 1-2 / China (8 gensets 6,300 kW)
- NP Fangjia 1-2 / China (8 gensets 6,000 kW)
- NP Fangjiashan 1-2 / China (8 gensets 6,000 kW)
- NP Vangiang 1-6 / China (13 gensets 6,000 kW)
- Olkiluoto 3 (4 EDGs + 2 SBO)

Interested in further details or is there anything else that AREVA can do for you? Please contact your regional sales manager on:

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