



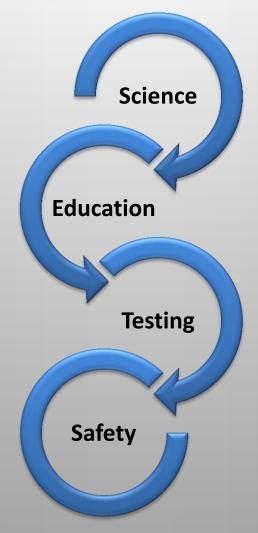
Poland: Ex safety since 90 years

Michał Górny GIG – KD "BARBARA"





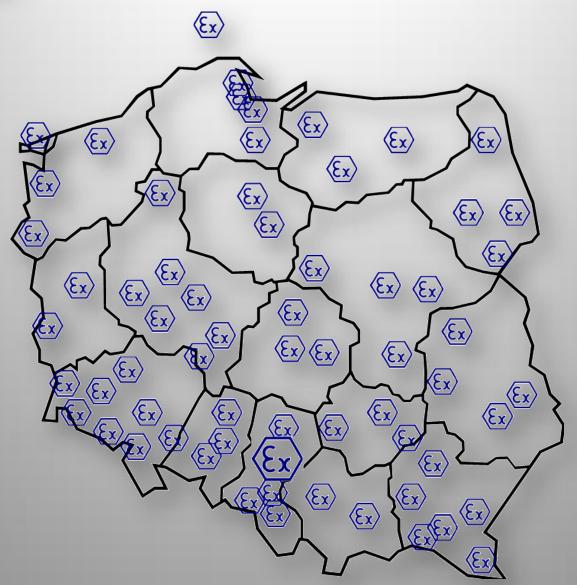
Central Mining Institute (GIG)







Ex activity in Poland







Experimental Mine "BARBARA" the oldest part of Central Mining Institute







Experimental Mine "BARBARA"

- Ex safety since 1925
- Formation of Polish Ex-standards (first Polish standard PN-E 17 dated 1929)
- Polish construction of passive trough barriers
- Testing laboratories the main in Poland
- Certified laboratory according to ISO/IEC 17025 since 1995
- Notified Body (ATEX) no 1453 since 2004
- IECEx (ExCB oraz ExTL) since 2010





Large scale testing – coal dust explosion





KDBEx Dust explosion testing





The 5 m³ explosion chamber

The 1 m³ explosion chambers



KDBEX Flame arrester testing







Explosives testing





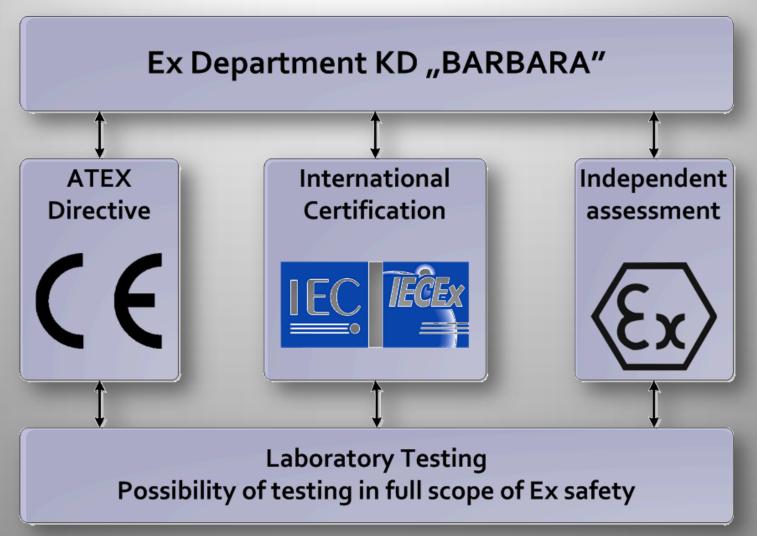
Experimental Gallery

Bunker for explosives testing





Ex department SCOPES + training and science activity







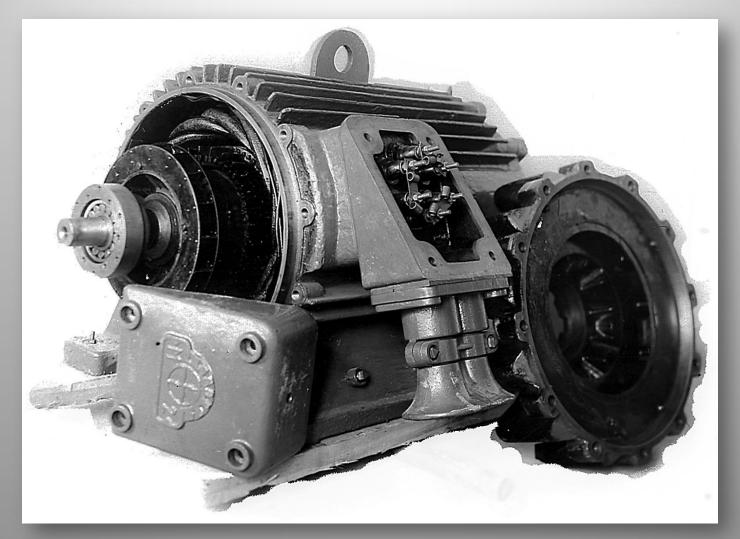
KDBEX Testing in the years of '30:

DO PRACY W GAZACH WYBUCHOWYCH dostarczamy: Silniki 3 fazowe z wirnikiem zwartym Silniki 3 fazowe z wirnikiem z pierścieniami ślizgowymi Skrzynki przyłączowe olejowe wykonane zgodnie z przepisami PNE 17/1937 VDE 0170/1933 oraz według wymogów Kopalni doświadczalnej BARBARA Dwa silniki 3 łożyskowe przeciwwybuchowe, z pierścieniami w ognioszczelnej osłonie po 360 KM, wykonane w Żychlinie dla jednej z fabryk chemicznych





KDBEX Testing in the years of '50:







Testing

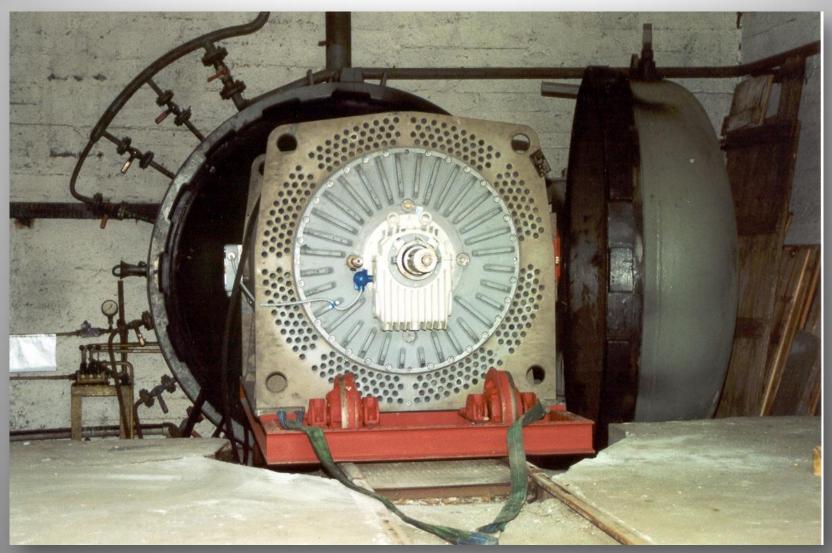




International IECEx conference 22-23 April, Gdańsk POLAND



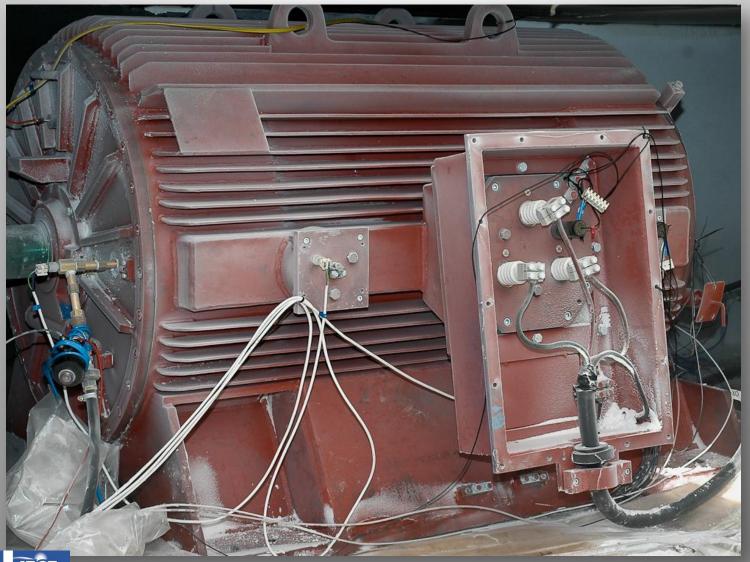
Testing







Low temperature testing







Low temperature testing





International IECEx conference 22-23 April, Gdańsk POLAND



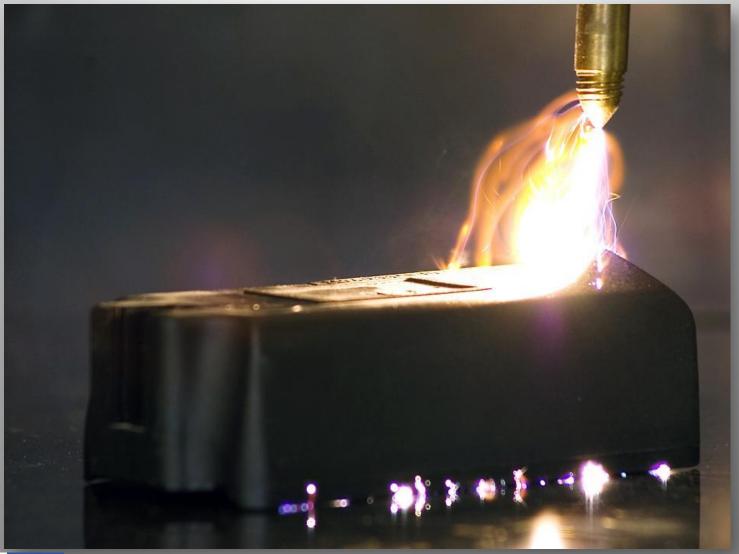
KDBEX Mechanical dimmension checking







Electrostatic hazard







IP testing









Mechanical Ex-safety:









Mechanical Ex-safety:







KDBEX Accidents investigations:





International IECEx conference 22-23 April, Gdańsk POLAND



KDBEX Accidents investigations:







Accidents investigations



International IECEx conference 22-23 April, Gdańsk POLAND



Accidents investigations







Personnel

Independent

Impartiality

Confidentiality

Competency

Experience

Theoretical knowledge

History and tradition



KDBEx

Communication and transfer of knowledge







Cooperation









Polish Committee for Standardization

Committees mirror:

TC31 (IEC/CENELEC) TC305 (CEN) Ministry of Economy

ATEX Standing Committee

ATEX Working Group

Office of Technical Inspection (IECEx MB)

State Mining Authority





International cooperation





Customs Union







ЕВРАЗИЙСКОЕ ЭКОНОМИЧЕСКОЕ СООБЩЕСТВО



International IECEx conference 22-23 April, Gdańsk POLAND



Standards







Standards - marking

Ex d IIB T4

EEx d IIB T4

Ex d IIB T4

PN-83/E-08110

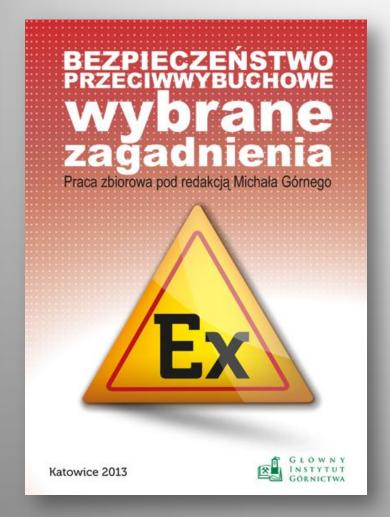
PN-EN 50014

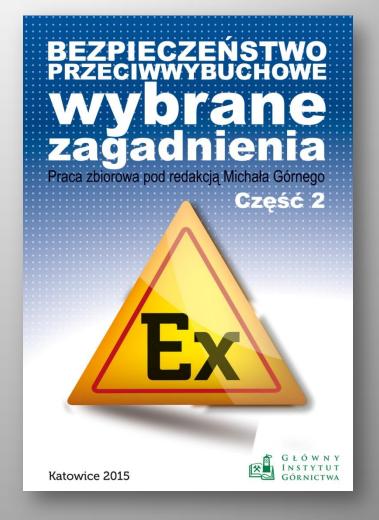
PN-EN 60079-0





Publications

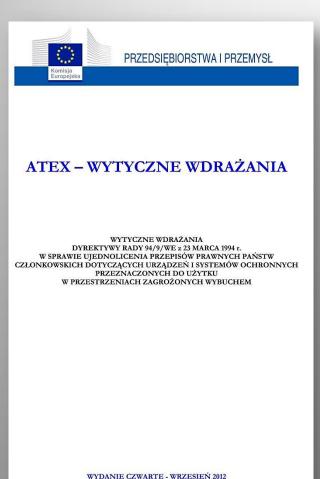








Publications - guides



GŁÓWNY INSTYTUT GÓRNICTWA
JEDNOSTKA CERTYFIKUJĄCA
ZESPÓŁ CERTYFIKACJI WYROBÓW
Kopalnia Doświadczalna "BARBARA"
43-190 Mikolów, ul. Podeksa 7. tel (33)3245550; fax: (32)3224931
http://www.kdbex.eu

PRZEWODNIK ODNOŚNIE RYSUNKÓW I DOKUMENTACJI NA POTRZEBY CERTYFIKACJI URZĄDZEŃ PRZECIWWYBUCHOWYCH

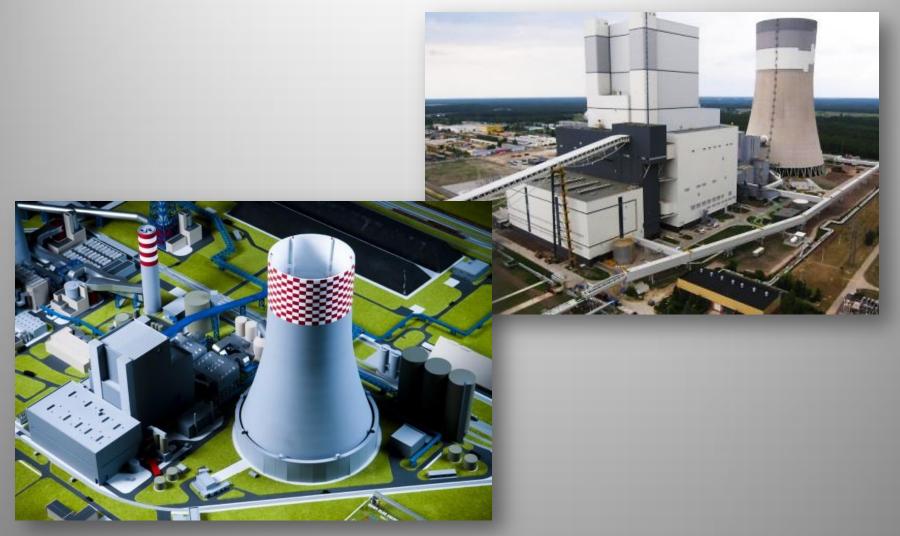


Mikołów, 2012 r.





Industry - support







Industry - support







Ex certification bodies in Poland





www.KDBEx.eu



www.UDT.gov.pl



www.obac.com.pl



www.cbidgp.pl



www.joac-test.pl



www.komag.pl



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Thank You for attention

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