



THE SCIENCE OF A PURE ENVIRONMENT

PRESENTATION OF

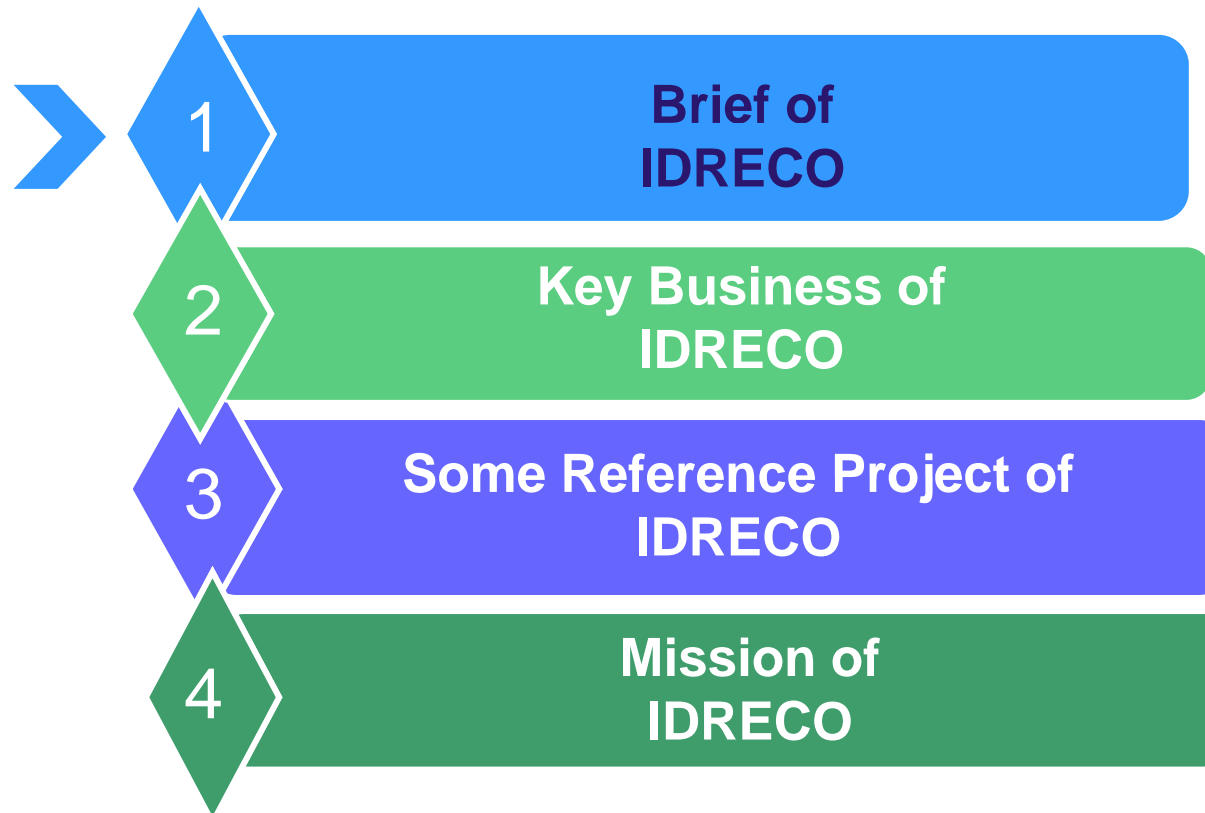
IDRECO

for the supply of Flue Gas Desulfurization Systems





THE SCIENCE OF A PURE ENVIRONMENT





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BRIEF OF IDRECO GROUP

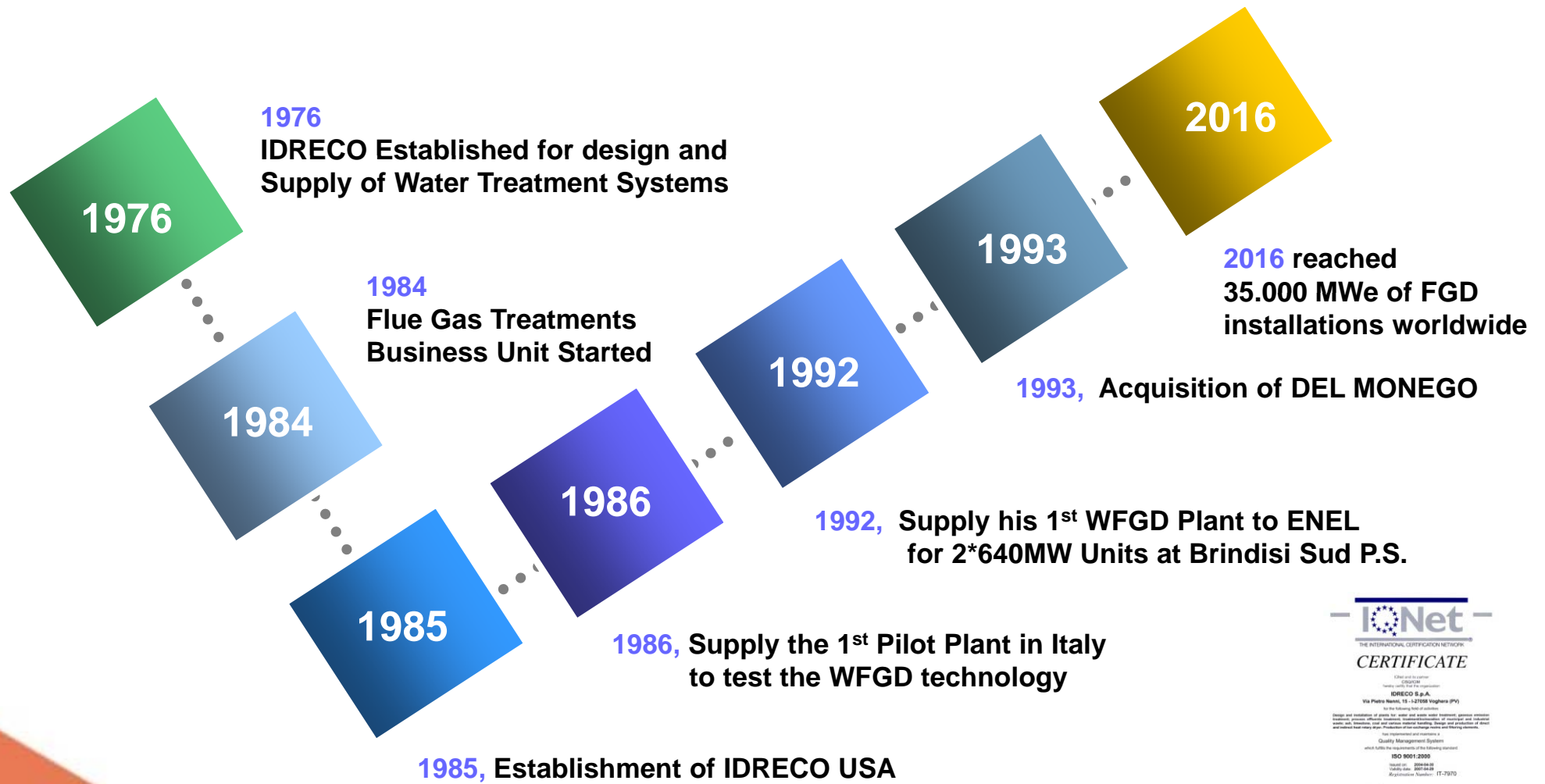
IDRECO Group is a fully privately owned group formed by :

- **IDRECO S.p.A.** is the General Contractor and the Technological Supporter to all the group's companies.
- **IDRECO USA Ltd.** – Subsidiary in charge of the North American market.
- **DEL MONEGO (brand)** - Design and supply of: dryers, calciners and incinerators for industrial wastes.
- **INTERWAT S.r.l.** - Supply of ion exchange resins and filtering elements applied in the energy / water fields.
- **ECO ELC ARGENTINA** - Subsidiary in charge of the South American market.
- **IDRECO LIBYA** - Subsidiary in charge of the North African market.



THE SCIENCE OF A PURE ENVIRONMENT

40 YEARS HISTORY



ISO 9001



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BRIEF OF IDRECO

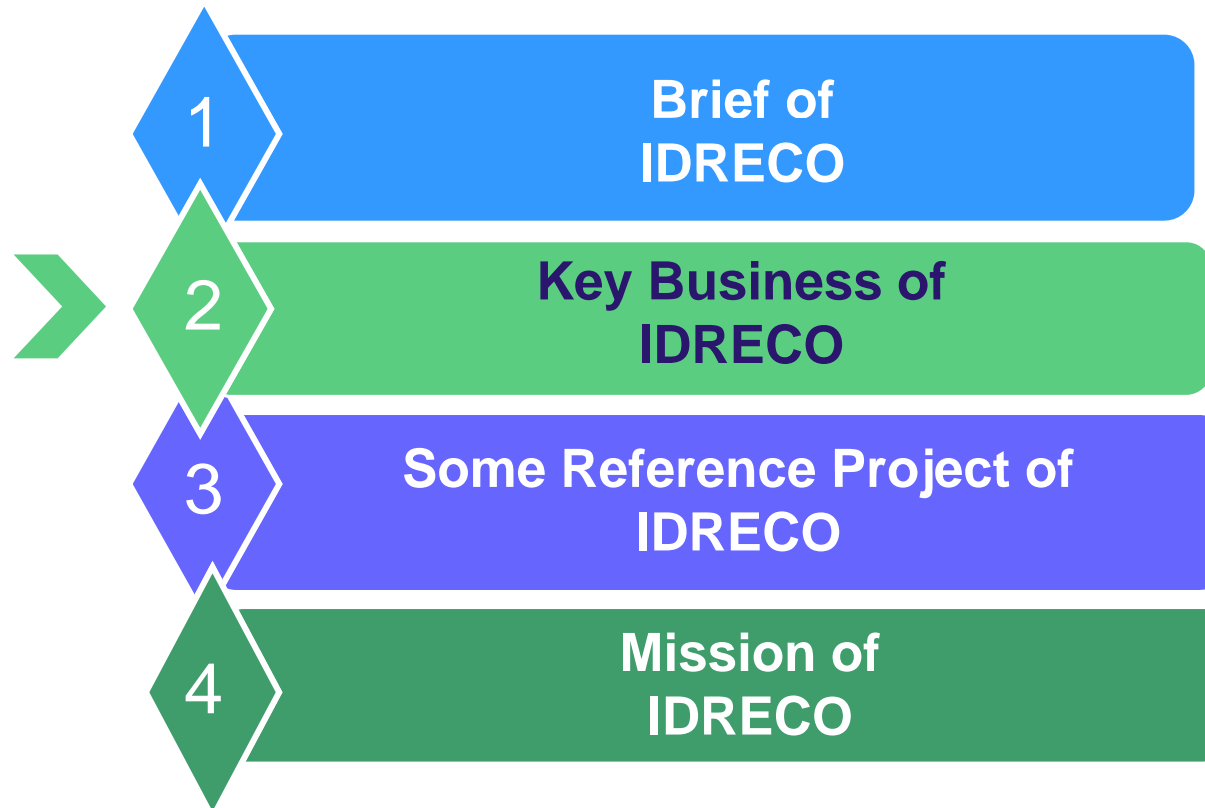
Main fields of activity:

- Flue Gas Desulphurization (FGD)
- Flue Gas Denitrification (DeNO_x)
- Industrial and Municipal Water Treatment
- Municipal and Industrial Wastes Treatment (W.W.T.)
- Desalination and Deionization treatment
- Incinerators for Hospital and Industrial Wastes
- Fiber and Metal Filter Elements for Condensate Polishing
- Sugar Treatments: Molasses Chromatographic separation and Juice Softening systems
- Design and Construction of Dryers and Calciners
- Powdered, Bead Ion Exchange Resins and Precoat Inert Materials





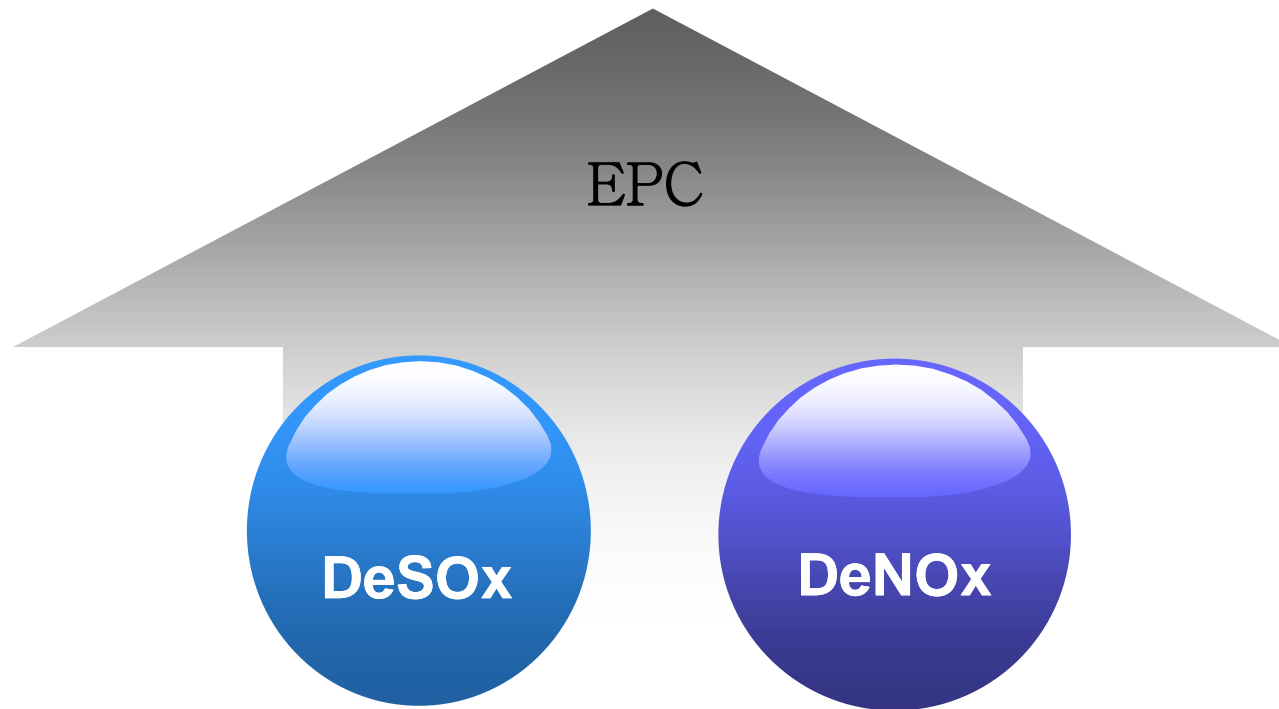
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EPC Contractor for electromechanical
supplies in Power and Petrochemical industry





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ENGINEERING



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IDRECO ENGINEERING MANPOWER

IDRECO Group consist mainly of engineers with long experience in design, management, supply and put into operation huge EPC contracts worldwide, not only in the field of FGD projects but for all the wide range of IDRECO technologies and systems.

The company has a permanent staff of process experts and engineers for :

- Flue Gas Treatments: DeSO_x and DeNO_x
- Primary Water Treatments
- Condensate Polishing Systems
- Industrial and Municipal Waste Water Treatments
- Incinerators, Rotary Kilns and Calciners
- Sugar Treatments



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PROCUREMENT





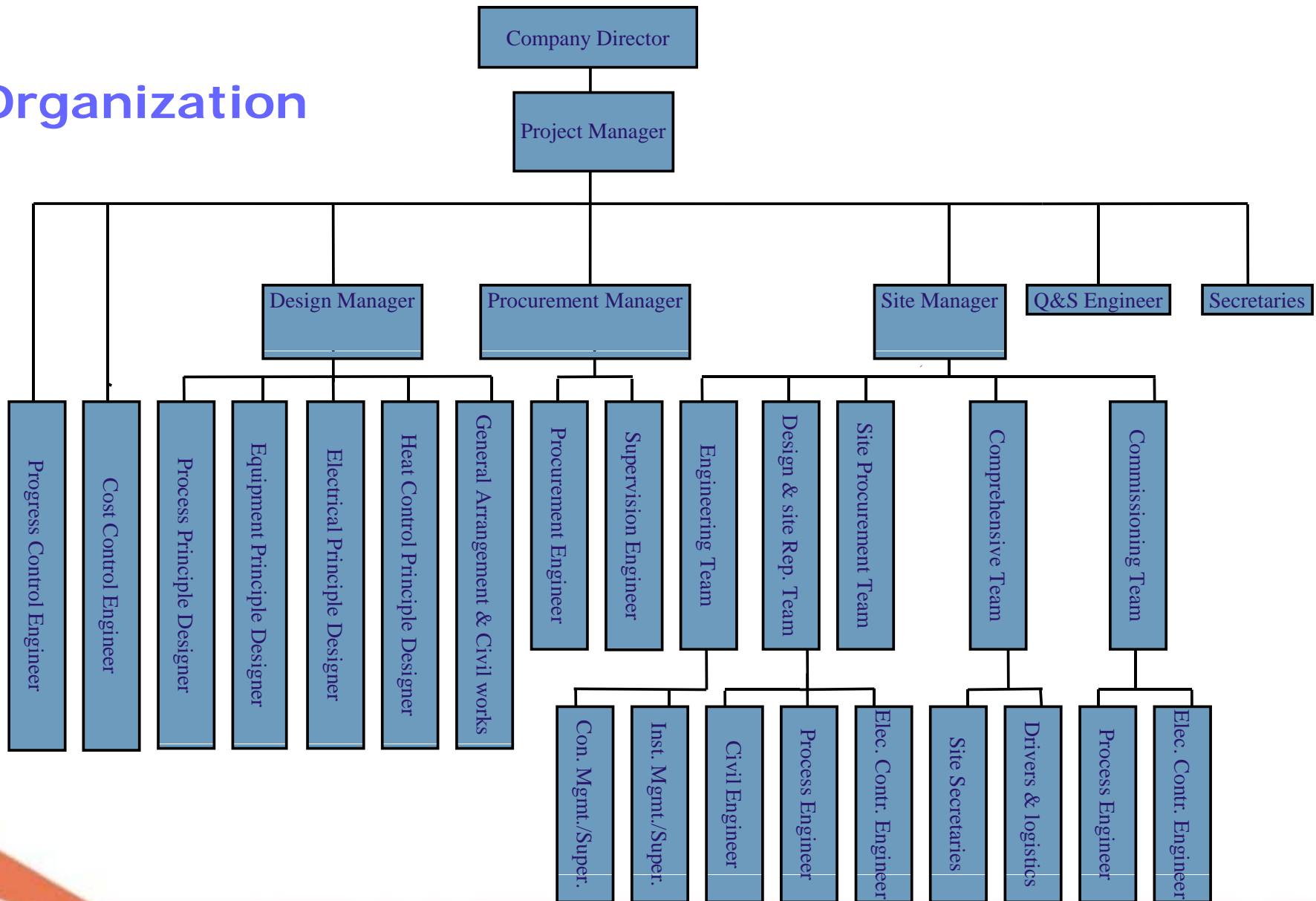
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Project Management



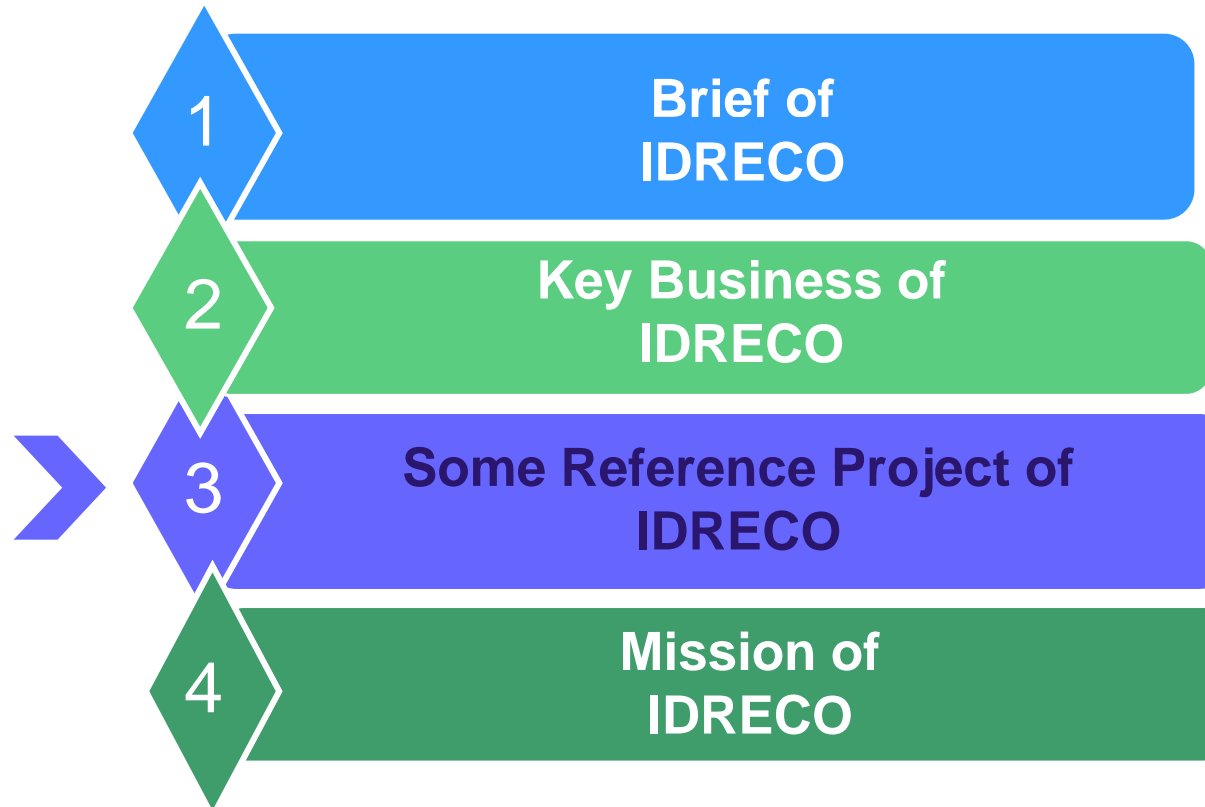
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IDRECO Project Organization





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IDRECO REFERENCE WFGD PROJECTS OUTSIDE CHINA

Project : **BRINDISI SUD**
Power St. : ENEL - BRINDISI SUD - ITALY
Power : 2*640 MW
Fuel : COAL and/or ORIMULSION

Project : **FUSINA**
Power St. : ENEL - FUSINA - ITALY
Power : 2*320 MW
Fuel : COAL

Project : **MAE MOH**
Power St. : EGAT - MAE MOH - THAILAND
Power : 4*300 MW
Fuel : LIGNITE

Project : **MELNIK**
Power St. : CEZ - MELNIK - CZECH REP.
Power : 1*500 MW + 2*110 MW
Fuel : LIGNITE

Project : **PUENTE NUEVO**
Power St. : ENEL PUENTE NUEVO - SPAIN
Power : 1*330MW
Fuel : COAL

Project : **BOCAMINA 2**
Power St. : ENDESA BOCAMINA 2 - CHILE
Power : 1*370MW
Fuel : COAL

Project : **MARITZA EAST 2**
Power St. : TPP MARITZA EAST 2 - BULGARIA
Power : 2*225MW
Fuel : LIGNITE



ENEL - SULCIS - ITALY



BRINDISI SUD - ITALY



MAE MOH - THAILAND



C.T.E. FUSINA - ITALY



P.S. MELNIK - CZECH REPUBLIC



BOCAMINA 2 - CHILE



MARITSA EAST 2 - BULGARIA



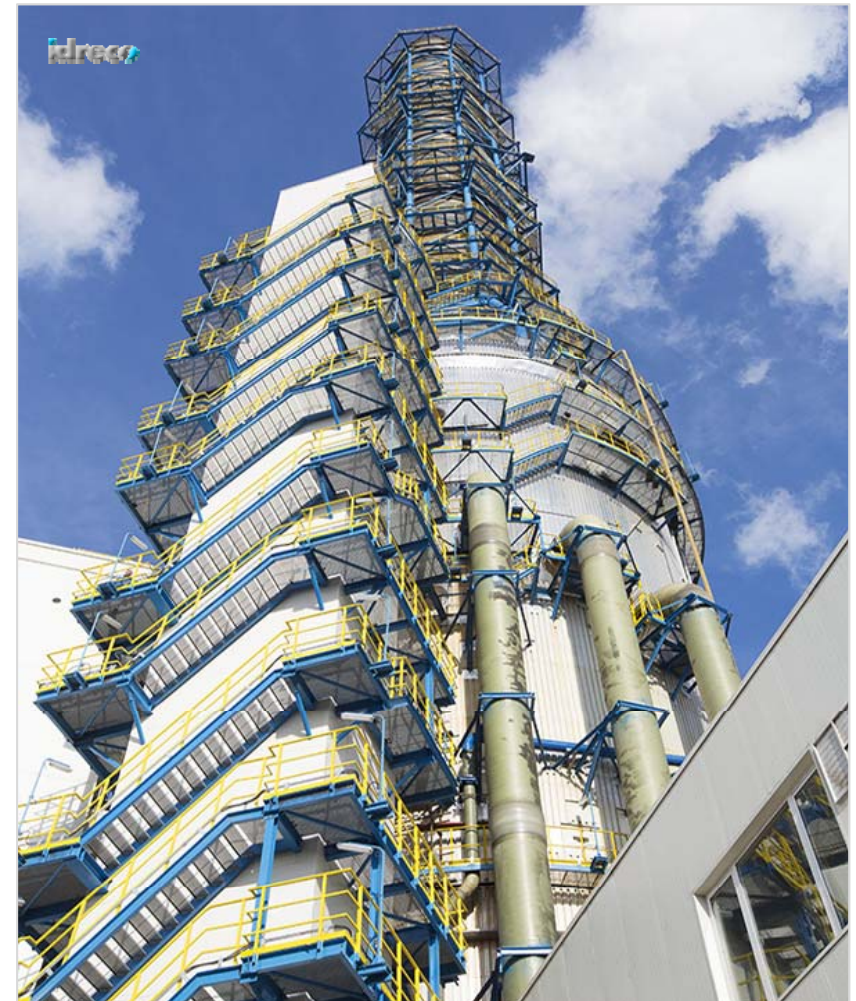


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A WFGD REFERENCE PROJECT

Project name: **MARITZA EAST 2 – 2*225 MW (single scrubber)**

- Owner: **TPP MARITZA EAST EAD 2**
- Site: **Staragora**
- Country: **Bulgaria**



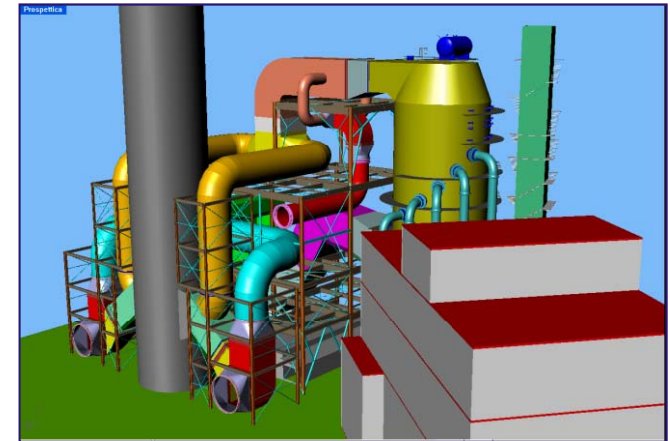
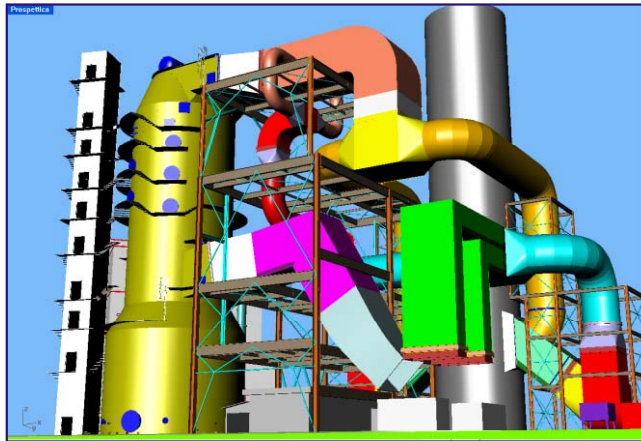
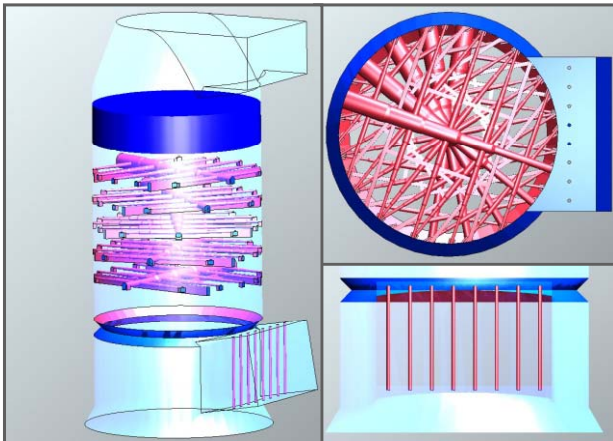


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A WFGD REFERENCE PROJECT

Project name: **PUENTE NUEVO 3 – 1*330 MW**

- Owner: **ENEL – ITALY (now E.ON Spain)**
- Site: **Cordoba**
- Country: **Spain**





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A WFGD REFERENCE PROJECT

Project name: **BOCAMINA 2 – 1*370 MW**

- Owner: **ENDESA CHILE**
- Contractor: **Maire Tecnimont**
- Site: **Puerto Coronel**
- Country: **Chile**





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SOME OF IDRECO REFERENCE PROJECTS IN CHINA





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A WFGD REFERENCE PROJECT

Project name: **HENGSHUI HENGXING – 2*300 MW**

- Owner : **HENGSHUI HENGXING POWER GENERATION CO. LTD**
- Site: **Hegshui - Hebei**
- Country: **P.R. China**





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A WFGD REFERENCE PROJECT

Project name: **SHAJIAO C – 3*660 MW**

- Owner: **GUANGDONG YUDEAN POWER GROUP CO. LTD.**
- Site: **Shajiao C - Guangdong**
- Country: **P.R. China**





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A WFGD REFERENCE PROJECT

Project name: **SHAJIAO A – 1*300 MW + 3*200 MW**

- Owner: **GUANGDONG YUDEAN POWER GROUP CO. LTD.**
- Site: **Shajiao A - Guangdong**
- Country: **P.R. China**





THE SCIENCE OF A PURE ENVIRONMENT

A WFGD REFERENCE PROJECT

Project name: **WANGTAN – 4*600 MW (Two Units as Option)**

- Owner: **DATANG INTERNATIONAL POWER GENERATION CO. LTD.**
- Site: **Wangtan - Hebei**
- Country: **P.R. China**





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A WFGD REFERENCE PROJECT

Project name: **YUEYANG – 2*300 MW**

- Owner: **HUANENG POWER INTERNATIONAL INC.**
- Site: **Yue Yang - Hunan**
- Country: **P.R. China**





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A WFGD REFERENCE PROJECT

Project name: **LIUZHOU – 2*200 MW (single scrubber)**

- Owner: **LIUZHOU POWER STATION CO. LTD.**
- Site: **Liuzhou - Guangxi**
- Country: **P.R. China**





THE SCIENCE OF A PURE ENVIRONMENT

A WFGD REFERENCE PROJECT

Project name: **BAOTOU 2nd – 2*300 MW**

- Owner: **MONGOLIA BAOTOU THERMAL POWER PLANT CO. LTD.**
- Site: **Baotou 2 - Inner Mongolia**
- Country: **P.R. China**





THE SCIENCE OF A PURE ENVIRONMENT

A WFGD REFERENCE PROJECT

Project name: **ZHUZHOU – 2*310 MW**

- Owner: **ZHUZHOU HUAYIN POWER STATION CO. LTD.**
- Site: **Zhuzhou - Hunan**
- Country: **P.R. China**





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A WFGD REFERENCE PROJECT

Project name: QINBEI Phase I & II - 4*600 MW

- **Owner:** HUANENG POWER INTERNATIONAL INC.
- **Site:** Qinbei Phase I & II - Henan
- **Country:** P.R. China





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A WFGD REFERENCE PROJECT

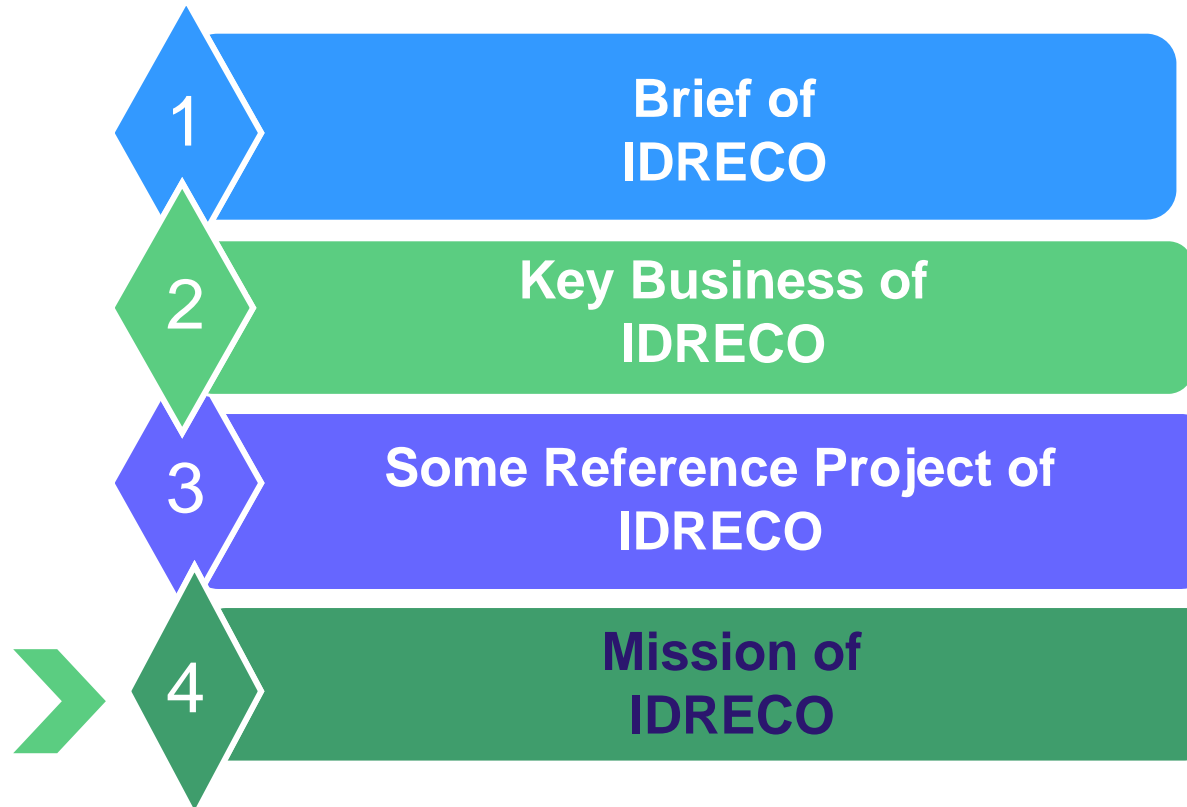
Project name: **TONGCHUAN 2*600 MW**

- Owner: **HUANENG POWER INTERNATIONAL INC.**
- Site: **Tongchuan - Shanxi**
- Country: **P.R. China**





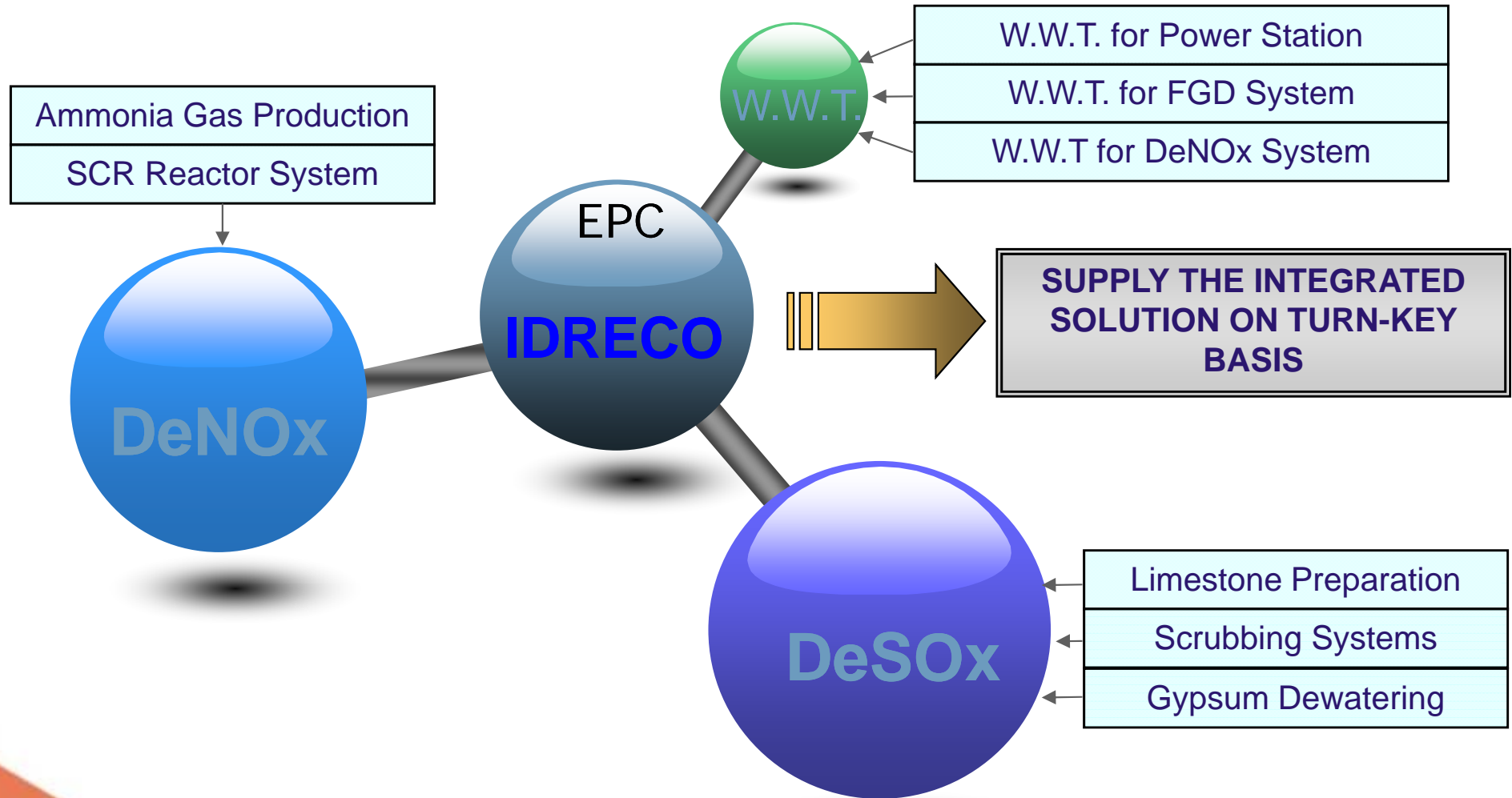
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IDRECO MISSION





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IDRECO MISSION



- Innovation
- Integrity
- Experience



THE SCIENCE OF A PURE ENVIRONMENT

THE BENEFITS FOR OUR CLIENTS

A SUCCESSFUL CHOICE !

IDRECO installations assures these benefits:

- Supply of a complete turn-key Project: DeSOx+DeNOx+W.W.T.
- Use of IDRECO's Advanced, Mature and Reliable Technologies
- Use of the most modern design tools: CFD, 3D CAD, FEM, etc.
- Huge availability of Engineering man-hours by using our partners
- Experience to work jointly with foreign Contractors
- Good co-operation with the main equipment manufacturers
- Proved effectiveness in the Quality and Progress Control Systems
- The shortest delivery time for this type of Projects
- Project costs savings due to the different markets knowledge



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Thank You !

IDRECO S.p.A.

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