A Global Player in Engineering, Testing and Power Systems Consulting

~2,000 Professionals

2,000+ Clients

70+ Countries Served

12 Global Sites

CESI Chile
Santiago, CI

CESI Chile
Rio de Janeiro, BR

CESI EnerNex
Knoxville, USA

CESI do Brasil
KEMA Labs
Arnhem, NL

CESI Global Office
Milan, IT

CESI GEPL
Dammam, KSA

KEMA Labs
Chalfont, USA

KEMA Labs
Milan, IT

KEMA Labs
Chile

KEMA Labs
Berlin, DE

KEMA Labs
Mannheim, DE

KEMA Labs
Prague, CZ

KEMA Labs
Shanghai, CN

KEMA Labs
Dubai, UAE

KEMA Labs
KEMDA Labs

CESI HQ
Milan, IT
Energy Consulting

Planning
- Planning studies & Interconnections
- Cost-benefit Analyses of New Investments

Engineering
- Owner’s Engineering Services for HVAC and HVDC infrastructures
- Owner’s Engineering for Smart Metering and Smart Grids Deployments
- Distribution Network Automation
- Owner’s Engineering for Renewables and Conventional PP

Operation
- Consultancy services for Power System Operations
- Consultancy for Asset Management
- Assessment and Improvement of Distribution Networks Performances
- Consultancy and technical Supplies and in Field Tests for Generation Asset Monitoring

Transmission
- Strategic studies for Smart Grids and Smart Metering projects
- Master Plan of Distribution Networks

Distribution
- Power Market studies
- Integration of Conventional/Renewable Power Plants into the Grid

Generation
- Strategic studies for Smart Grids and Smart Metering projects
- Master Plan of Distribution Networks
A few worlds from Paolo Bignardi, he will talk about his own experience with LM+ in CESI!

✓ Why LM+
✓ Why CESI
Introduction – System Planning (www.cesi.it/grare)

- European Flow Based market with Grid detail #ModelDevelopment #OperationalResearch
- Mid Term Adequacy forecast and Seasonal Outlook #ModelDevelopment #Planning
- Cost Benefit ANALYSIS #Planning #ConsultancyActivity

**GRID RELIABILITY AND ADEQUACY RISK EVALUATOR**

- Designed for technical analyses of large electric systems.
- Evaluation of electric systems Generation & Transmission adequacy.
- Optimal level of RES integration.
- Calculation of Total Transfer Capacity of interconnections.
- Generation reward evaluation for Capacity Remuneration Mechanism.
- Point Of Connection and sizing for new power plants.

**Technical Specifications**

- CPU: N.64 Core
- RAM: 256.00 GB
- 2 Servers
Introduction – System Planning

Thesis Projects

#OperationalResearch

Power Market/Gas/Heat and V2G resolution in a probabilistic Monte Carlo
#Gas #Heat #Power market application

Linear and Mixed integer optimizations for Unit Commitment applications in Monte Carlo
#Monte Carlo #Optimal Hydro - Thermal Dispatching

Skills

Appreciated competences:

Computer skills, operational research knowledge, predisposition for model development

Critical mind about data and results analysis

Benefits and Requirements:

✓ 500 €/month
✓ 12 months